



CATÁLOGO TÉCNICO RESUMIDO
COMPACT TECHNICAL CATALOG

2011

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CTRC 2011/4

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CATÁLOGO TÉCNICO RESUMIDO CENTAURO

CENTAURO COMPACT TECHNICAL CATALOG

NOMENCLATURA:
CTRC - CATÁLOGO TÉCNICO RESUMIDO CENTAURO
S/P. - PREÇO SOB PEDIDO
NOMENCLATURE:
CTRC - CENTAURO COMPACT TECHNICAL CATALOG
S/P. - PRICE AVAILABLE ON DEMAND

NOTAS:

- Todos os dados são reportados a R404A, exceptuando os evaporadores estáticos que estão baseados em R134a;
- As capacidades frigoríficas das tabelas na gama SAHE estão referidas a R717 (Amoníaco) sistema bombado (3 recirculações);
- Todos os fornecimentos, entregas e outros serviços prestados pela Centauro serão exclusivamente de acordo com as "CONDIÇÕES E TERMOS GERAIS DE FORNECIMENTO" constantes nesta tabela.

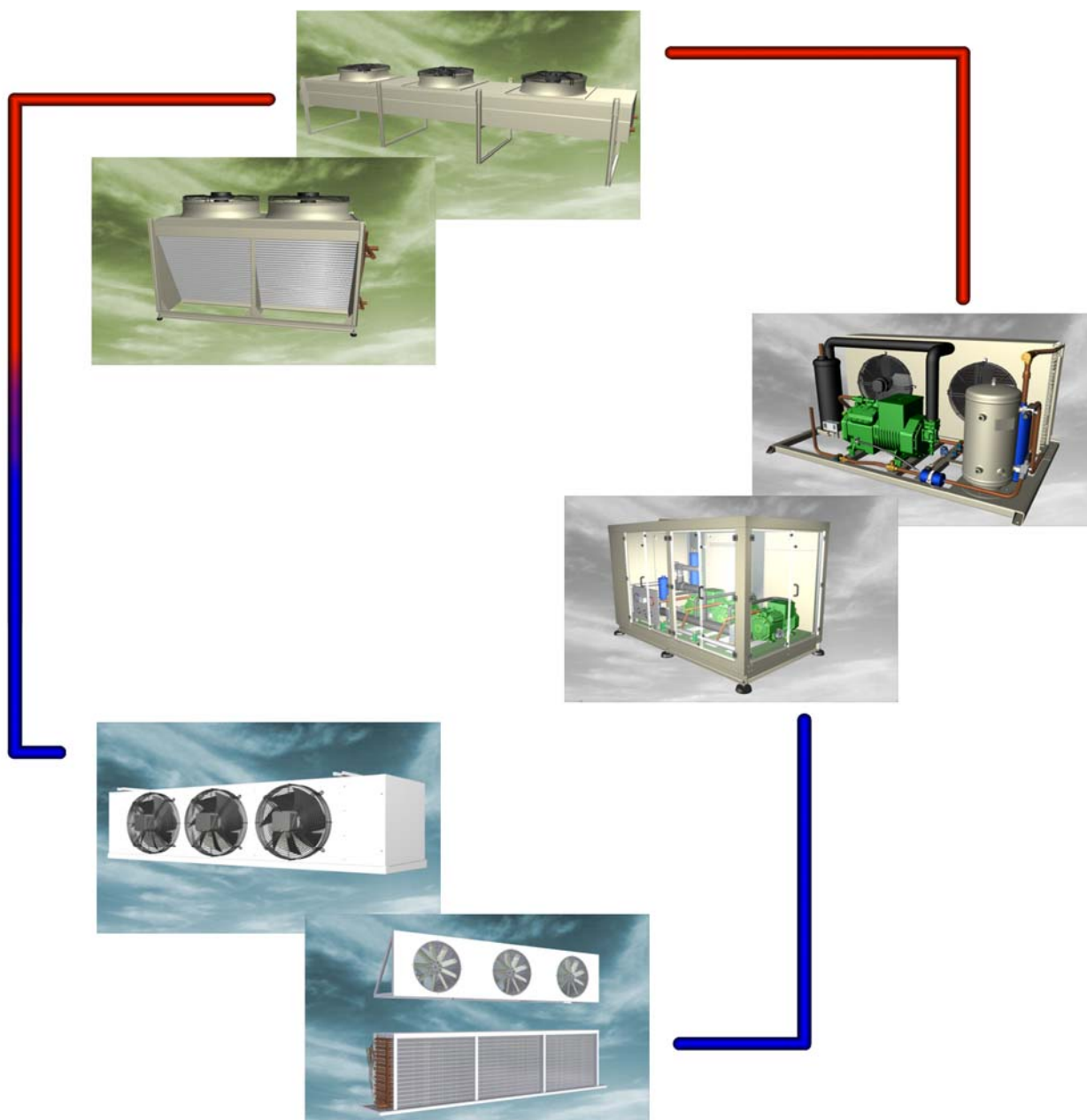
NOTES:

- All data is reported to R404A, except for the Slim Thickness Coolers which are reported to R134a;
- All SAHE range capacities are based on R717 (Amonia) pumped system (3 recirculations);
- All supplies, deliveries and other services offered by Centauro are solely according to the "GENERAL TERM AND CONDITIONS OF SUPPLY" presented in this catalog.

QUIRON
by **centauro**

find your "set point"

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CENTAURO em 1978 CENTAURO in 1978



CENTAURO em 2010 CENTAURO in 2010

HISTÓRICO

O projecto Centauro nasceu a 19 de Junho de 1978 com a constituição e registo da Empresa Castanheira, Henriques & C.^a Lda. A produção teve início em 1980. Em 1983 a Empresa exportou os primeiros produtos para o Reino Unido.

Apostando sempre na opção estratégica que deu suporte à sua fundação a Castanheira Henriques especializou-se no fabrico de componentes para a indústria de refrigeração e ar condicionado, granjeando progressivamente a confiança dos grandes fabricantes nacionais de móveis frigoríficos e das empresas especializadas no projecto de construção de instalações frigoríficas (matadouros, câmaras frigoríficas, hipermercados, túneis de congelação entre outros).

Em 1988 a Castanheira Henriques comemorou em Castelo Branco os 10 anos de existência apresentando aos mais de 700 convidados nacionais e estrangeiros uma fábrica renovada com 6500m² de área coberta e uma gama completa, moderna e certificada de produtos para Refrigeração e AVAC.

A necessidade de expansão e especialização a nível de produção levou à formação em 1992 da Centauro Portugal S.G.P.S., S.A. que juntou à casa mãe Castanheira Henriques (frio comercial) a Centauro Internacional (frio industrial) e a Brisa Nova (comercialização de produtos Centauro). As novas instalações da Centauro Internacional são inauguradas em 4 de Julho de 1992 com a presença de mais de 1200 convidados nacionais e estrangeiros.

A Centauro Portugal S.G.P.S., S.A. é um grupo de empresas sediado em Castelo Branco, vocacionado para a concepção, desenvolvimento, fabrico e comercialização de permutadores de calor e de equipamentos destinados à indústria de refrigeração, climatização e ar condicionado.

O desenvolvimento industrial foi suportado pela certificação do Sistema de Garantia da Qualidade ISO 9002 em 1993. Actualmente o Sistema de Gestão da Qualidade ISO 9001-2008 está certificada pela APCER e é uma das ferramentas ao serviço do desenvolvimento sustentado das actividades da Empresa.

A inovação, a qualidade e a fiabilidade dos seus produtos, o eficiente e exigente apoio após venda são lado a lado com uma gestão financeira rigorosa, uma produção bem equipada, em termos técnicos e humanos, e flexível, um serviço de Engenharia de aplicações atento e com formação contínua.

Para o grupo Centauro a exportação para os mercados do centro / norte da Europa sempre funcionou como motor de desenvolvimento, seja no encontrar de novos mercados e novas aplicações dos seus produtos, seja na área de I&D.T que resulta da necessidade de acompanhar, em termos técnicos e tecnológicos, o que de melhor se faz nesses mercados. Hoje em dia exporta regularmente para Espanha, Holanda, Bélgica, Reino Unido, Irlanda, Noruega e Alemanha.

Em 2003 a Centauro entra definitivamente para o "grupo restrito" de fabricantes europeus de equipamento para instalações com amoníaco, com a apresentação da família de produtos SAHE.

O desenvolvimento técnico e tecnológico da Centauro é sustentado pelo desenvolvimento de parcerias vencedoras com fornecedores e clientes e, quando necessário, com centros de competência nacionais e estrangeiros. Esta forma de "trabalhar em equipa" permite à Empresa estar presente e activa em diversas frentes, com soluções técnicas das mais evoluídas e inovadoras a nível do sector de Refrigeração e AVAC.

HISTORY

CENTAURO's project started on 19th of June 1978 with the constitution and registration of Castanheira, Henriques & C.^a Lda. Production started in 1980. In 1983 began product exportation to the United Kingdom.

Always maintaining the strategic goals that supported its foundation, Castanheira Henriques specialized itself on manufacturing components for the Refrigeration and HVAC industry, progressively increasing the thrust of major portuguese companies of reach-in cabinets, display cases, refrigeration project building (slaughterhouses, chambers, supermarkets, freezing tunnels, etc.), amongst other projects.

In 1988 Castanheira Henriques celebrated in Castelo Branco its 10 years of existence presenting to over 700 national and international guests a renewed factory with 6500m² of covered area and a complete, modern and certified range of products for the Refrigeration and HVAC industry.

The need to expand and specialize itself, led to the foundation, in 1992, of Centauro Portugal S.G.P.S., S.A., that together with Castanheira Henriques (Commercial Refrigeration), created Centauro International (Industrial Refrigeration) and Brisa Nova (Commercialization of CENTAURO's products).

The new Centauro Internacional facilities are inaugurated on the 4th of July 1992 with the presence of over 1200 national and international guests.

Centauro Portugal S.G.P.S., S.A. is a group of companies based in Castelo Branco, mainly oriented in designing, developing, manufacturing and selling heat exchangers, components and equipment for the Refrigeration and HVAC Industry.

Industrial development and specialization was supported by the certification of an ISO 9002 Quality Management System in 1993. At this date the ISO 9001-2008 Quality Management System is certified by APCER and remains one of the main tools in the solid and progressive development of the Company.

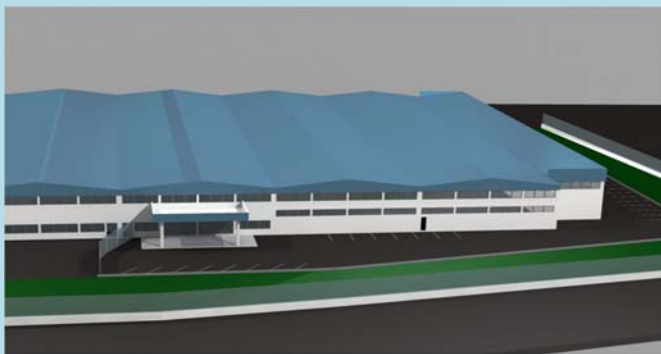
Innovation, quality and reliability of its products and the efficient and demanding after-sales support, together with a strict financial management, well teamed and flexible production, human and machinery wise and a watchful and in constant learning applications Engineering department.

For the Centauro group, exporting to new markets in central/northern Europe as always been a development factor, either on finding new markets and applications for its products, either on R&D, resulting in the need to continue to develop and follow, in technical and technological terms, what is best done in these markets. Today it regularly exports to Spain, Holland, Belgium, United Kingdom, Ireland, Norway and Germany.

In 2003 Centauro definitely enters the "restrict club" of ammonia equipment manufacturers, with the presentation of its SAHE product range.

Centauro's technical and technological development is supported by successful partnerships with suppliers and customers, and when needed, with national and international competence centers.

This "team work" allows the company to be active in several aspects regarding innovative and evolved technical solutions in Refrigeration and HVAC industry.



CENTAURO INTERNACIONAL CENTAURO INTERNACIONAL



CENTAURO INTERNACIONAL CENTAURO INTERNACIONAL

MARCOS

- 1978 - Fundação.
- 1980 - Fim da 1.ª fase - reconstrução da velha cerâmica. Início da produção.
- 1981 - Primeira presença num certame internacional "Interclima 81" – Paris.
- 1982 - Inauguração oficial da Castanheira, Henriques & C.ª, Lda.
- 1983 - Início de exportação para o Reino Unido.
- 1988 - Comemoração dos 10 anos de existência:
 - Inauguração da ampliação final da Castanheira, Henriques & C.ª, Lda.
 - EXPO 88 que reúne 750 profissionais do ramo juntamente com os seus familiares.
- 1990 - É tomada a decisão de arriscar a construção de uma nova unidade fabril
 - Nasce o projecto Centauro Internacional. Modelo conforme para produtos CENTAURO.
- 1991 - Começa a construção da Centauro Internacional e nasce a ideia de construir a Centauro (Portugal) S.G.P.S., S.A.
- 1992 - A 10 de Abril é constituída a Centauro (Portugal) S.G.P.S., S.A.
 - A 4 de Julho é inaugurada a Centauro Internacional que reúne mais de 1.200 profissionais do ramo e seus familiares.
- 1993 - Marca produto certificado (<np>) para os produtos CENTAURO
 - ISO 9002 – Sistema de Garantia da Qualidade.
- 1995 - Marcação CE.
- 1997 - Certificação Eurovent.
- 1998 - ISO 9001/1995 – Sistema Garantia da Qualidade.
- 2003 - ISO 9001/2000 – Sistema de Gestão da Qualidade.
 - Apresentação na Climatização Madrid da Gama SAHE (Inox – NH3).
 - Exportação dos primeiros equipamentos para amoníaco.
- 2004 - Centauro 25 Anos – "Ventos de Mudança" – 25º Aniversário, em que reuniu mais de 1000 profissionais do ramo e seus familiares.
- 2006 - Inauguração da nova linha de pintura e ampliação das Instalações (30.000m2 área coberta).
- 2007 - Apresentação na Feira Climatización Madrid da nova linha de condensadores ACP e evaporadores com motores EC.
- 2008 - Certificação ISO 9001-2008.
- 2009 - Enceramento das comemorações do 30º Aniversário da fundação da CENTAURO na Climatización 2009 - Madrid.
- 2010 - Comemoração dos 30 Anos do lançamento do primeiro catálogo de produtos CENTAURO.
 - Sinerclima 2010 - Batalha.

LANDMARKS

- 1978 - Foundation.
- 1980 - End of 1st. fase - reconstruction of the old ceramics. Start of production.
- 1981 - First international participation: "Interclima 81" – Paris.
- 1982 - Official Inauguration of Castanheira, Henriques & C.ª, Lda.
- 1983 - Start of exportations to the United kingdom.
- 1988 - Commemoration of 10 years existence:
 - Inauguration of final expansion of Castanheira, Henriques & C.ª, Lda. branch.
 - EXPO 88 - 750 professionals and family members of the branch meet together.
- 1990 - Is taken the decision to risk the construction of a new manufactory unit.
 - Centauro Internacional project is born.
 - Agreement model for CENTAURO products.
- 1991 - Centauro Internacional construction has started born of the idea to build Centauro (Portugal) S.G.P.S., S.A.
- 1992 - On April 10th Centauro (Portugal) S.G.P.S., S.A. is constituted.
 - On July 4th Centauro Internacional inauguration congregates more than 1,200 professionals of the branch and its familiar ones.
- 1993 - Certified product label (<np>) for all CENTAURO products.
 - ISO 9002 - warranty of quality.
- 1995 - C.E. Label.
- 1997 - Eurovent certification.
- 1998 - ISO 9001/1995 – Quality system Warranty
- 2003 - ISO 9001/2000 – Quality System Management
 - Presentation of SAHE (Inox – NH3) range at "Climatización Madrid".
 - First exports of ammonium equipments 2004 - Centauro 25 Years – "Ventos de Mudança" – 25º Anniversary.
- 2006 - New painting line inauguration and facilities expansion (30.000m² covered area).
- 2007 - New ACP condensers and coolers with EC fans presented in "Climatización Madrid" exhibition.
- 2008 - ISO 9001-2008 certification.
- 2009 - Comemorations closure of the 30th Aniversary of CENTAURO's foundation. on "Climatización Madrid" exhibition.
- 2010 - Comemorations of the 30th Aniversary of CENTAURO's first product catalog launch.
 - Sinerclima 2010 - Batalha.
 - Market presentation of the new range Quiron by CENTAURO.

A nova geração de produtos **QUIRON** da Centauro representa o resultado de uma contínua aposta da empresa na melhoria dos seus produtos e no disponibilizar aos seus clientes soluções fiáveis e com boa aptidão ao uso, com integração das mais recentes tecnologias úteis testadas e comprovadas, no mercado em termos de concepção e fabricação de permutadores de calor.

A nova geração **QUIRON** nasceu na área da Refrigeração, aposta na melhoria da eficiência energética e na redução do impacto ambiental e mantém a tradicional robustez, fiabilidade, flexibilidade e boa aptidão ao uso que caracteriza os produtos Centauro.

Com efeito a melhoria da eficiência energética e a redução do impacto ambiental são de facto os vectores de força da geração **QUIRON** e estão presentes de uma forma ou de outra em todos os novos produtos. O "fio condutor" de toda esta renovação é a experiência adquirida ao longo de 32 anos de presença da Centauro no mercado da Refrigeração enquanto fabricante e parceiro de todos os seus clientes, seja no exigente serviço após venda que é disponibilizado, seja na parceria pró-activa com eles construída em termos de concepção e fabrico de soluções especiais sob medida na área da Refrigeração em geral e na de permutadores de calor em particular. É este "saber como fazer" que funciona como "mola real" de uma permanente aposta em I,D&Q suportada pela experiência. A geração **QUIRON** é pois inovadora e totalmente desenvolvida na Centauro...SE HÁ ALGO QUE NÃO SE PODE COPIAR ISSO É A EXPERIÊNCIA!

A indústria ligada à Refrigeração e AVAC desenvolveu muitas soluções para o fabrico de permutadores de calor, nem todas adaptáveis com sucesso e fiabilidade à Refrigeração em condições reais de funcionamento no terreno (pó, gelo, elevada humidade, descongelações) mas atractivas em termos de preço final do permutador que em laboratório sem pó, sem gelo, sem descongelações e sem humidade até apresenta valores interessantes de capacidade. A Centauro em 1984 seguiu esse caminho mas rapidamente percebeu que conceber, calcular e fabricar equipamento fiável e adaptado às condições reais de funcionamento, muitas vezes com exigências especiais decorrentes da aplicação ou de especificações do cliente, exigia mais do que o acima referido...exigia da Centauro uma evolução permanente, "cabeça fria face às novidades", conservadorismo na avaliação das mesmas, I,D&Q pró-activo e actuante, investimento em novos meios de produção e uma aposta estratégica de proximidade ao produto nas condições reais de funcionamento seja no seu laboratório de aplicações, seja em laboratórios externos que testem os seus produtos de acordo com as especificações Centauro, seja numa presença forte e exigente no após venda no terreno. Para a empresa o melhor laboratório técnico para um fabricante que pretenda apresentar produtos modernos mas simultaneamente fiáveis e em linha com os requisitos especiais da sua movimentação, instalação, controle e exploração.

Fiel ao acima referido a Centauro levou bastante tempo mas o necessário para avaliar, testar, fornecer e acompanhar no terreno e no seu laboratório de aplicações importantes inovações e melhorias disponíveis no mercado, adoptando para a geração **QUIRON** as que vão de encontro aos requisitos e forma de estar da Centauro enquanto fabricante de permutadores e componentes para a indústria de refrigeração.

Por outro lado o desenvolvimento de tecnologias e produtos amigos do ambiente, requisito básico para qualquer indústria moderna e responsável, faz parte do "código genético" da Centauro e dos seus produtos e está presente nas suas opções técnicas e estratégicas desde a sua fundação. Com efeito:

- o uso de alumínio em detrimento de chapa de ferro ou chapa galvanizada permite reduzir as emissões indirectas devido à capacidade de reciclagem "ad aeternum" deste metal, da sua durabilidade (ciclo de vida). Com efeito produzir alumínio a partir de sucata significa reduzir 95% de energia relativamente à sua produção a partir de bauxite;
- o uso exclusivo de tubos e colectores de cobre, para além de melhorar a fiabilidade da "construção brazada" dos permutadores de calor, reduz o potencial de risco em termos de fuga e aumenta a percentagem de produto facilmente reciclável;
- a opção estratégica por motoventiladores com carcaça em alumínio enquadra-se na estratégia acima referida;
- a utilização de permutadores para R 717(NH₃) com tubos inox e alhetas em alumínio (SAHE), em detrimento de permutadores com tubo e alhetas de aço galvanizado, permite melhorar a eficiência de permuta de calor, reduzir a dimensão do permutador e a potência absorvida pelos moto ventiladores. Simultaneamente permite evitar a galvanização a quente por imersão, processo "sujo e poluente" com elevados consumos de energia e elevadas emissões indirectas de CO₂. Estão também disponíveis permutadores tubo e alhetas de alumínio (FAHE);
- a obtenção de permutadores mais compactos reduz o consumo de matérias primas contribuindo assim para a melhoria do TEWI do equipamento Centauro;
- a aposta na aquisição de modernos meios de fabrico e produção, energeticamente eficientes produzidos por fabricantes de renome internacional como por exemplo a Tridan, Triumph ou ITW-Gema, GBS, sujeitos a uma cuidadosa manutenção preventiva e curativa, permite aumentar o ciclo de vida dos mesmos e reduzir a pegada de CO₂ dos produtos Centauro;
- o recurso a fornecedores fiáveis, com provas dadas no sector e com forte aposta em I,D&T suportada por parcerias efectivas com os seus clientes permite à Centauro ser "um entre pares" no que respeita a "desafiar o futuro" de um forma energeticamente eficiente e ambientalmente sustentada;

Foi este "caldo de opções estratégicas em termos técnicos, tecnológicos e ambientalmente sustentáveis" que esteve na base do lançamento da geração **QUIRON** de produtos Centauro cujas linhas mestras fundamentais apontam para:

- utilização de matérias primas de primeira qualidade, com longo ciclo de vida e com um elevado potencial de reciclagem;
- utilização de motoventiladores energeticamente eficientes para garantir a circulação forçada de ar nos permutadores (rotor externo corrente AC com alternativas técnicas fiáveis e testadas no terreno em termos de tecnologia EC);
- utilização de ventiladores com elevada eficiência aerodinâmica que se traduz em termos de redução dos níveis de ruído e de potência mecânica requerida no veio, tais como HY BLADE, OWLET, SILENCIS ou perfil "aerofoil";
- utilização de tubo de cobre sem costura em detrimento de tubo soldado, com superfície interna majorada e reduzido rácio superfície secundária/primária;
- recurso a novos índices de "corrugação" das alhetas em detrimento da utilização de alhetas "rasgadas" (slittered ou loovered) no entender da Centauro incompatíveis em termos de fiabilidade e bom desempenho em condições reais de funcionamento - gelo e descongelações em evaporadores ou pó e cotão em condensadores;
- utilização de diferentes geometrias de tubo/alheta em função da aplicação e gamas e capacidade;
- opção pelo cálculo de permutadores com baixa perda de carga no circuito primário (refrigerante);
- utilização de permutadores alhetados menos profundos para cada capacidade/caudal de ar, reduzindo assim a potência absorvida pelos ventiladores relativamente à capacidade e permuta (melhor COP/EER/Eficiência energética);
- utilização de tecnologia de brazagem testada, actualizada e certificada, lado a lado com uma cuidada e criteriosa avaliação das espessuras dos tubos em função da pressão de serviço e em conformidade com as normas, directivas e regulamentos aplicáveis (marcação CE), reduzindo assim o potencial de risco de fugas de refrigerante para o ambiente.

Neste contexto a nova geração **QUIRON** apresenta as seguintes características principais:

- construção compacta compatível com os requisitos da aplicação;
- redução do rácio dm³/kW (redução do volume interno e da carga de refrigerante);
- disponibilização de equipamentos com eficiência de permuta de calor optimizada em função da aplicação, mantendo superfícies de permuta "conservadoras" em evaporadores nos quais e em condições reais de funcionamento é necessária superfície para deposição de gelo com minimização do efeito do mesmo na transferência de calor;
- melhoria do COP/EER/Eficiência energética do equipamento (redução do rácio W absorvidos/capacidade de transferência em W), tendo como expoente máximo as versões com recurso a motoventiladores com tecnologia EC;
- redução do consumo de matéria-primas e aumento do índice de reciclagem (redução de emissões);
- redução do potencial de risco de fugas no circuito de refrigerante;
- redução dos níveis de ruído;
- redução do consumo de material de embalagem e optimização do espaço necessário para transporte, permitindo transportar mais equipamento no mesmo espaço, reduzindo assim as emissões de CO₂, entre outros;
- capacidade técnica e experiência no terreno na concepção e fabrico de permutadores para refrigerantes naturais tais como R717 (NH₃), R744 (CO₂), sub-crítico e trans-crítico, R718 (H₂O) simples ou glicolada, em evaporadores, condensadores, frigidifusores, arrefecedores secos e "subarrefecedores".

Em resumo a geração **QUIRON** apresenta novas soluções que resultam da evolução do mercado e da tecnologia no sector da Refrigeração, recuperando soluções e conceitos de design técnico temporariamente descontinuados, garantindo todos os requisitos que ao longo dos anos fizeram dos produtos Centauro equipamentos eficientes, fiáveis e "honestos" no seu desempenho e assegurando a continuidade da reconhecida flexibilidade e disponibilidade da Centauro em disponibilizar "concepção e fabrico sob medida" (CRS - Customized Refrigeration Solutions).

MUITO IMPORTANTE

As Directivas EuP, ErP e a aposta na poupança de energia estão consideradas na geração **QUIRON** de produtos Centauro. Motores PM, vulgo EC estão disponíveis para todas as gamas de produtos.

New generation **QUIRON** by centauro reflects the natural evolution of its main core business – heat exchangers.

The new **QUIRON** generation is born in the Refrigeration field, branded with the most up to date, useful and efficient technologies and as former ones, engineered to last.

Efficiency and environment impacts are indeed the driving forces of the **QUIRON** generation and therefore are present in all new products. The main guide line is the feed back of 32 years of experience in the Refrigeration field as O.E.M. that enabled Centauro to develop its own know-how and technology in the area of Refrigeration applications, namely in terms of heat exchangers.

Technology evolution brought new solutions in terms of heat exchangers for Refrigeration, some really useful, others not so clear in terms of real benefits for product reliability in real field operation conditions but "good" in terms of price. Centauro is from its beginning a conservative company focused in product reliability and global performance in real operating conditions, reason why it took quite a while to investigate, test and evaluate these new solutions according to Centauro's standards.

Environment impact became more and more an issue and, as such, obliged committed companies to a "green" approach to their products design. Centauro from its very first beginning made important choices that became a part of the "genetic code" of its products, such as:

- using as much as possible aluminum instead of steel or galvanized steel. Aluminum is recyclable "ad eternum" and allows to save 95% of energy when produced from scrap instead of bauxite;
- using copper in coil piping and collectors (no steel collectors);
- using as much as possible fan motors with aluminum casing;
- using for R717 (NH₃) stainless steel pipes and aluminum fins for coils (SAHE), instead of galvanized tube and fins solution. Aluminum/aluminum coils (FAHE) are also available. These options reduce quite a lot the amount of raw materials necessary to produce coils, enabling at the same time to optimize the efficiency of heat transfer in the coils that became smaller, not so deep, allowing to use smaller fan motors that have lower electrical consumption;
- using modern and efficient means of production from reliable manufacturers such as Tridan, Triumph, ITW-Gema, GBS;
- choosing reliable and dynamic suppliers committed with R,D&Q, believing in common development through out long lasting partnership and for sure full involved in efficient design and environment protection.

That's the "melting pot" of technological and environment new approaches and reliable performance in real field conditions that allowed Centauro to step in **QUIRON** generation. This new generation of products meets the following targets:

- usage of first quality raw materials with a long life cycle and recyclable as much as possible;
- usage of high efficient and reliable fan motors to drive the air through the coil (external rotor AC motors with alternatives tested and used with EC external motors);
- usage of high performance fans with optimized aerodynamics behavior, reduce noise emissions and reduced required shaft power (HY BLADE, OWLET, SILENCIS or aerofoil for example);
- usage of inner grooved seamless copper tube, not welded, with enhanced internal surface and therefore reduced secondary/primary surface ratio;
- usage of optimized corrugated fins, not slittered or louvered, either for air coolers or air cooled condensers;
- usage of different tube geometries and diameters according to applications and ranges of capacity;
- usage of low pressure drop coil design in terms of circuiting of primary surface;
- usage of low air pressure finned packs whenever possible in order to minimize air pressure drop and required fan power;
- usage of proved and certified brazing techniques together with careful evaluation of tube thickness according relevant standards and directives (reduced leak potential).

As a result products of the **QUIRON** generation has the following main common features in terms of better TEWI and reduced CO₂ footprint:

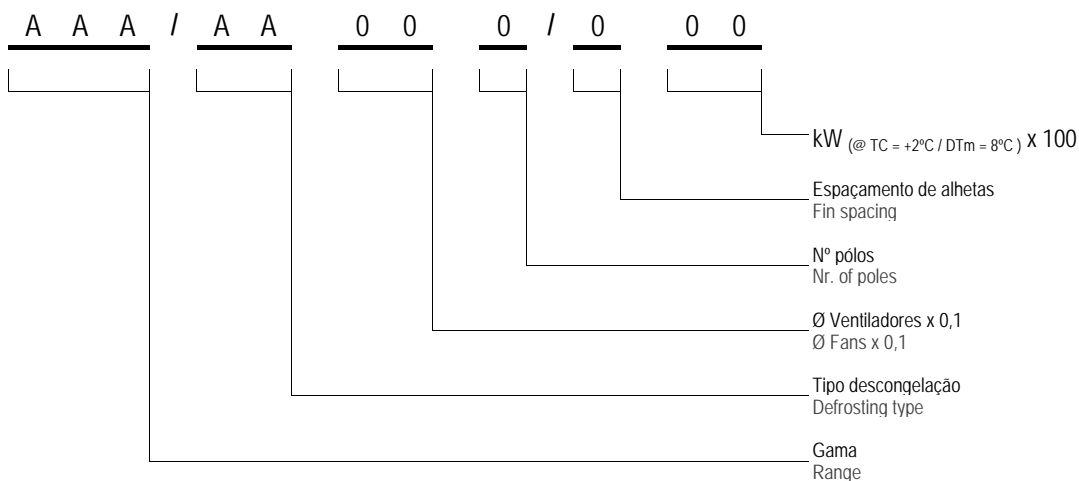
- compact design in line with application requirements;
- reduced ratio dm³/kW (low internal volume, low refrigerant);
- high performance but still conservative coil design allowing enough surface for ice in refrigeration applications;
- reduced ratio (Wabs / W of duty) in air coolers and in air cooled condensers-increased COP/EER/Better efficiency that gives space to optimal values when EC technology for fan motors is used;
- reduced quantity of required raw materials to build up the equipments (compact design as much as possible and advisable in terms of application);
- reduced emissions;
- reduced potential risk of leaks by means of safe tube gauges and certified brazing techniques;
- reduced noise emissions;
- reduced packing material and reduced space for transport with reduced indirect CO₂ emissions;
- availability and experience in design and construction of heat exchangers using natural refrigerants as primary fluid such as R717 (NH₃), R744 (CO₂) subcritical and transcritical, R718 (H₂O) pure or as glycol brine in between others (air coolers, air cooled condensers, fluid air coolers, dry coolers, desuperheaters);
- availability of coils design for low GWP refrigerants with special focus on R134a as a good reliable and efficient compromise for next future together with compressors specially designed for this refrigerant such as ECOLINE from Bitzer.

Last but not least the **QUIRON** generation presents new standard products as result of market demands either in coolers or condensers and recovers old concepts that, by means of market evolution, became up to date again side by side with the well known full availability and flexibility to offer "Customized Refrigeration Solutions - CRS".

VERY IMPORTANT

EuP, ErP Directives and energy saving are under the survey and adoption on Centauro. All ranges from **QUIRON** generation may use PM motors, so called EC motors.

GAMA AP / APL RANGE AP / APL



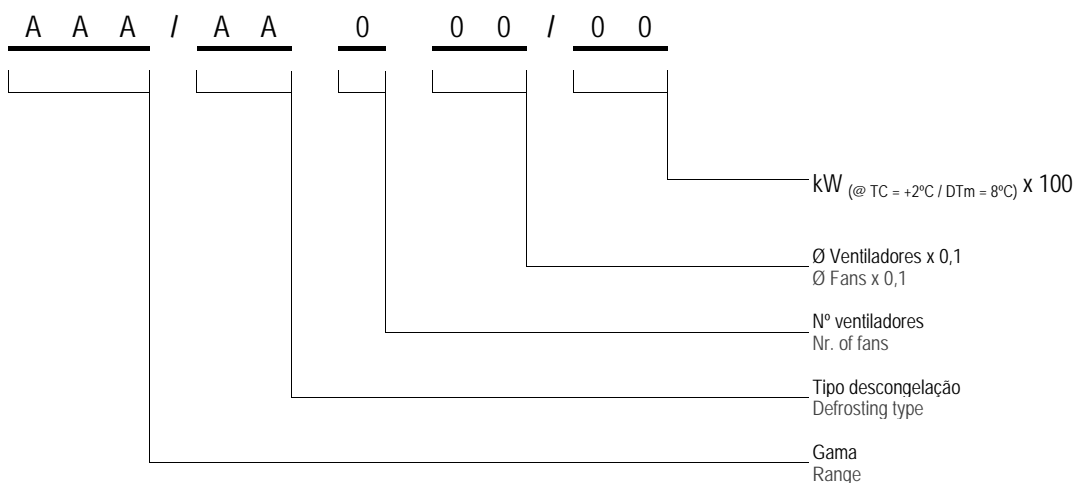
Exemplo:

Example:

AP 204/431

- AP com 1 ventilador de Ø200 mm, 4 pólos, espaçamento de 4,2 mm e 0,31 kW
- AP with 1x Ø200 mm fan, 4 poles, 4,2 mm fin spacing and 0,31 kW

GAMA APD RANGE APD



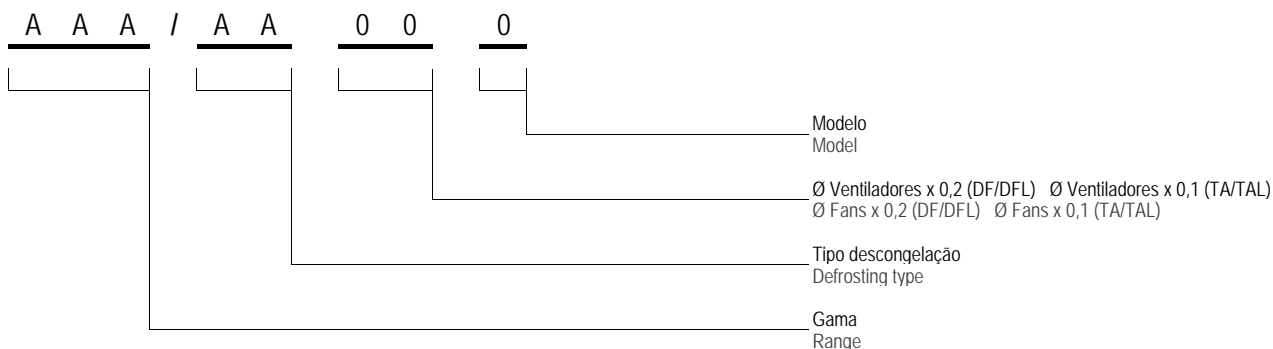
Exemplo:

Example:

APD 111/30

- APD com 1 ventilador Ø113 mm e 0,30 kW
- APD with 1x Ø113 mm and 0,30 kW

GAMA DF / DFL - TA / TAL RANGE DF / DFL - TA / TAL



Exemplo:

Example:

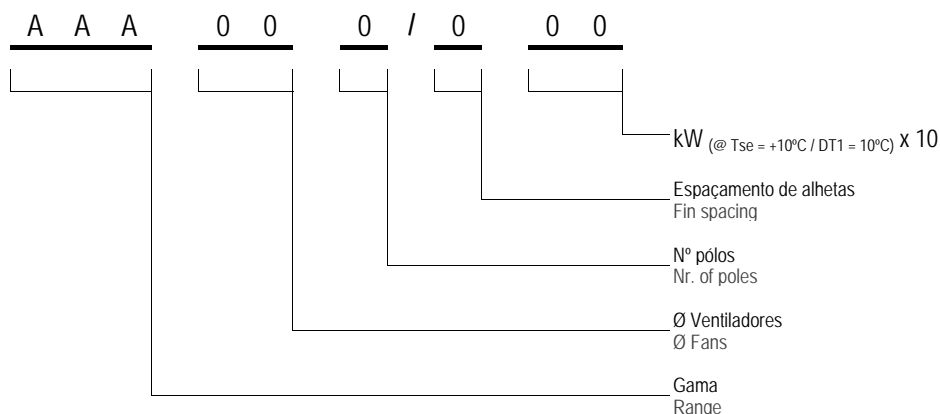
DF/E 401

- DF modelo 1 com Ø200 mm com descongelación eléctrica
- DF model 1 with 1x Ø200 mm fan and electrical defrost

TA 234

- TA modelo 4 com Ø230 mm
- TA model 4 with 1x Ø230 mm fan

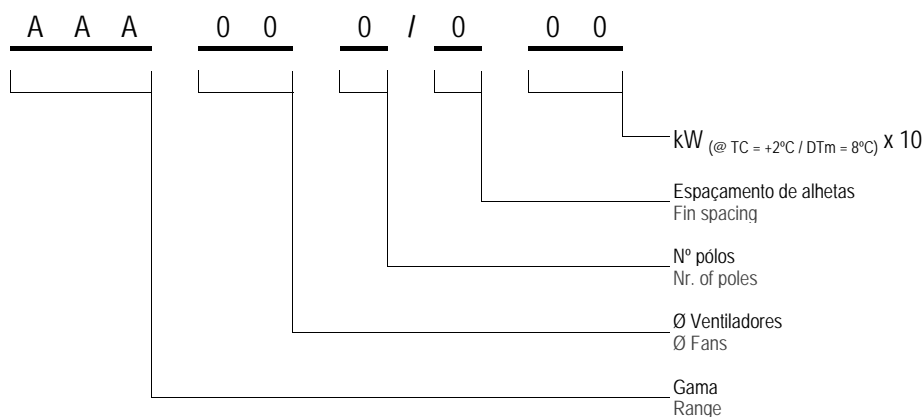
GAMA ERK RANGE ERK



Exemplo:
Example:

ERK 456/384 - ERK com Ø450 mm, 6 pólos, espaçamento de 3,2 mm e 8,39 kW
ERK with Ø450 mm fan, 6 poles, 3,2 mm fin spacing and 8,39 kW

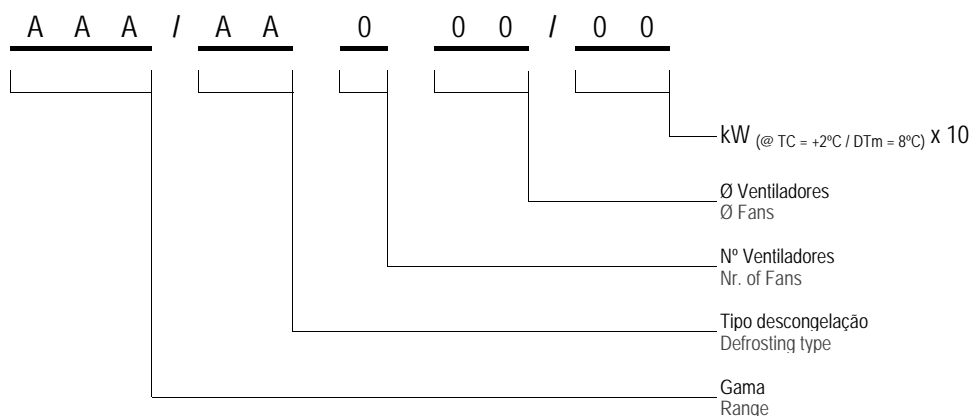
GAMA ERN RANGE ERN



Exemplo:
Example:

ERN 304/414 - ERN com Ø300 mm, 4 pólos, espaçamento de 4,2 mm e 1,43 kW
ERN with Ø300 mm fan, 4 poles, 4,2 mm fin spacing and 1,43 kW

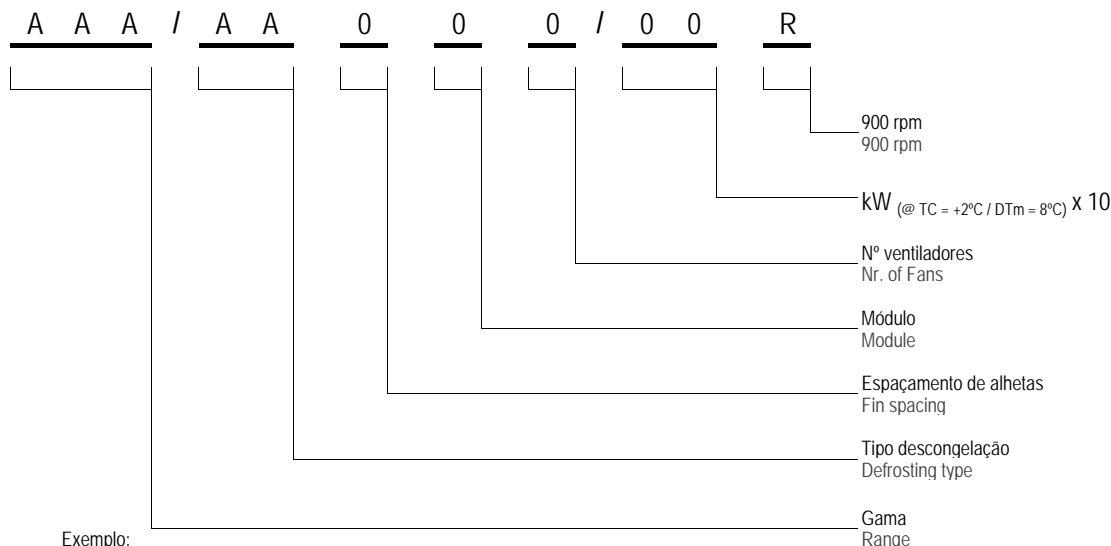
GAMA BXN / BXL RANGE BXN / BXL



Exemplo:
Example:

BXN 130/24 - BXN com 1 ventilador Ø300 mm e 2,38 kW
BXN with 1 Ø300 mm fan and 2,38 kW

GAMA RWK / BWK RANGE BWK / RWK

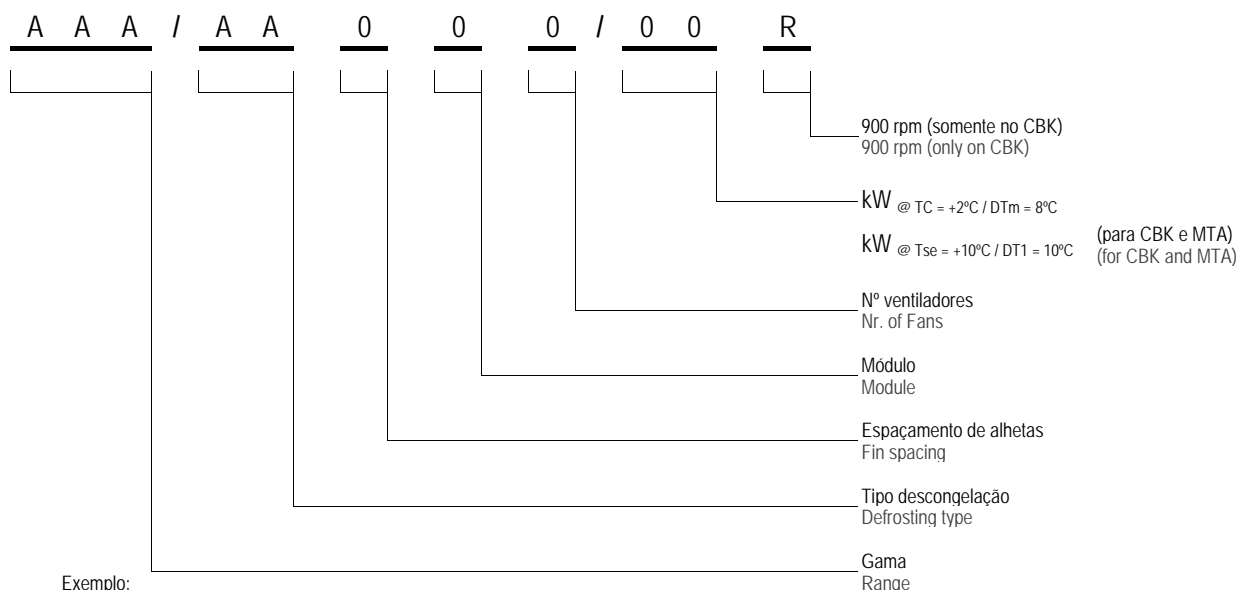


Exemplo:
Example:

RWK 4A2/40

- RWK com 4,2 mm de espaçamento, 2 ventiladores de Ø300 mm e 4,06 kW
RWK with 4,2 mm fin spacing, 2 Ø300 mm fans and 4,06 kW

GAMA CB - MT - DD - MTA - MTB - DDC - DDL - DXL RANGE CB - MT - DD - MTA - MTB - DDC - DDL - DXL



Exemplo:
Example:

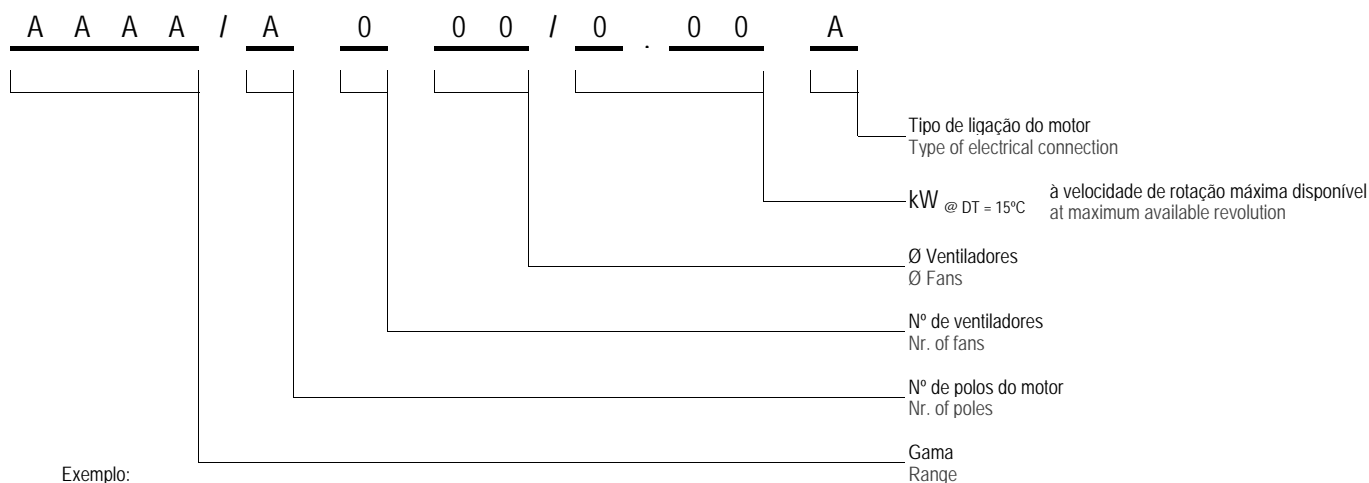
MT 4E3/13

- MT com 4,2 mm de espaçamento, 3 ventiladores de Ø350 mm e 13,39 kW
MT with 4,2 mm fin spacing, 3 Ø350 mm fans and 13,39 kW

CBK 3F4/22

- CBK com 3,2 mm de espaçamento, 4 ventiladores de Ø400 mm 22,3 Kw e velocidade de rotação de 900rpm
CBK with 3,2 mm fin spacing, 4 Ø400 mm fans and 22,3 kW

CONDENSADORES CONDENSERS



Exemplo:
Example:

ACH/E 250/47.4T

- ACH com 2 ventiladores de Ø500 mm com 47,4 kW, de 4 pólos e ligado em triângulo
ACH with 2x Ø500 mm fans and 47,4 kW, 4 poles and delta connection

MÓDULOS MODULES

Ø300	RWK / RWK -R / BWK / BWK -R	A
	CB / CB -R	B
	MT/DD	C
Ø350	CB / CB -R	D
	MT/DD	E
Ø400	CB / CB -R	F
	MT/DD	G
Ø450	CB / CB -R	H
	MT/DD	J
Ø500	CB / CB -R	K
	MT/DD	L
	MTA/MTB/DDC/DDL/DLX	M
Ø560	CB / CB -R	N
	MTA/MTB/DDC/DDL/DLX	P
Ø630	CB / CB -R	Q
	MTA/MTB/DDC/DDL/DLX	R
Ø710	MTA/MTB/DDC/DDL/DLX	S
Ø800	MTA/MTB/DDC/DDL/DLX	T

FACTORES DE CORRECÇÃO CORRECTION FACTORES

EVAPORADORES - DTm EVAPORATORS - DTm

$$Q0m = Qsm \times RCm$$

Q0m - Capacidade corrigida em DTm
Qsm - Capacidade (TC=2°C / DTm=8°C)
RCm - Factor de correcção (DTm)

Exemplo:
Example:

MT 4C2/6
TC=0°C / DTm=6°C

Q0m - Corrected capacity DTm
Qsm - Capacity (TC=2°C / DTm=8°C)
RCm - Correction factor (DTm)

Capacidade corrigida = 6,44 x 0,682
Capacidade corrigida = 4,39 kW

Corrected capacity = 6,44 x 0,682
Corrected capacity = 4,39 kW

EVAPORADORES - DT1

$$Q01 = Qs1 \times RC1$$

Q0m - Capacidade corrigida em DT1
Qs1 - Capacidade (Tse=10°C / TE=0°C)
RC1 - Factor de correcção (DT1)

Exemplo:
Example:

CBK 3F3/19 R
Tse=14°C / DT1=10°C

Capacidade corrigida = 19,48 x 1,010
Capacidade corrigida = 19,67 kW

Corrected capacity = 19,48 x 1,010
Corrected capacity = 19,67 kW

IMPORTANTE IMPORTANT

TODAS AS GAMAS DE EVAPORADORES APRESENTAM CAPACIDADES NOMINAIS EM DTm, EXCEPTO AS GAMAS ERK, CBK, MTA (SC1) E ESTÁTICOS (SC2) QUE APRESENTAM CAPACIDADES HÚMIDAS EM DT1.

ALL AIR COOLERS RANGES ARE PRESENTED WITH NOMINAL CAPACITY REPORTED TO DTm, EXCEPT ERK, CBK, MTA (SC1) AND GRAVITY COILS (SC2) RANGES WHICH ARE PRESENTED WITH NOMINAL WET CAPACITY USING DT1.

CAPACIDADES CAPACITIES



AP/APL



ERK/ERN



DF/DFL



TA/TAL



RWK/BWK



BXN/BXL

Modelo Type	Capacidade corrigida para (Tse=+12°C / TE=+1°C) Selection Capacity for (Tse=+12°C / TE=+1°C)
ERK 304/413	1.42
ERK 304/420	2.25
ERK 304/331	3.39
ERK 406/437	4.11
ERK 406/346	5.10
ERK 406/359	6.45
ERK 456/367	7.33
ERK 456/384	9.25
ERK 506/4109	12.02
ERK 506/3128	14.09
ERK 506/3155	17.04
CBK 4B1/2 R	2.87
CBK 4B2/4 R	4.68
CBK 4B2/6 R	6.32
CBK 3F1/7 R	7.22
CBK 4B3/9 R	9.51
CBK 4B4/12 R	12.92
CBK 3F2/13 R	14.02
CBK 3F3/19 R	21.47
CBK 3F4/25 R	27.08
CBK 4H3/32 R	35.37
CBK 4K3/39 R	42.98
CBK 4H4/42 R	46.61
CBK 4K4/56 R	62.15
CBK 4K5/69 R	75.49
CBK 4B1/3	3.32
CBK 4B2/5	5.30
CBK 4B2/7	7.71
CBK 4B3/10	11.64
CBK 4B4/14	15.54
MTA 4M1/18	19.74
MTA 4P1/26	28.31
MTA 4T1/50	54.95
MTA 4T1/61	67.21
MTA 4S3/84	92.39
MTA 4T2/100	110.46
MTA 4T2/122	134.93
MTA 4T2/134	147.47
MTA 4T3/170	187.70
MTA 4T3/190	208.95
MTA 4M1/18 AS	16.49
MTA 4P1/26 AS	22.89
MTA 4T1/50 AS	45.22
MTA 4T1/61 AS	52.43
MTA 4S3/84 AS	69.77
MTA 4T2/100 AS	90.76
MTA 4T2/122 AS	105.13
MTA 4T2/134 AS	110.22
MTA 4T3/170 AS	149.99
MTA 4T3/190 AS	159.53

Capacidade nominal - Pag. 26, 42, 52
Nominal capacity - Pages 26, 42, 52

Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)
AP 204/431	0.31
AP 204/439	0.39
AP 234/463	0.63
APL 204/626	0.26
APL 204/629	0.29
APL 234/645	0.45
APD 111/23	0.23
APD 111/30	0.30
APD 211/42	0.42
APD 211/46	0.46
APD 211/25	0.25
APD 211/36	0.36
APD 211/49	0.49
APD 211/58	0.58
APD 211/68	0.68
APD 212/91	0.91
APD 212/97	0.97
ERN 204/402	0.18
ERN 204/403	0.29
ERN 234/405	0.45
ERN 234/406	0.63
ERN 304/412	1.21
ERN 304/414	1.43
ERN 406/636	3.69
ERN 406/640	3.96
ERN 404/449	4.86
ERN 404/456	5.62

Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)
DF 400	0.44
DF 402	0.61
DF 404	0.70
DF 460	0.88
DF 462	1.06
DF 500	1.24
DF 502	1.48
DF 504	1.72
DF 506	2.71
DF 508	2.97
DF 5010	3.50
DF 5012	4.67
DF 5014	5.31
DFL 401	0.33
DFL 403	0.43
DFL 405	0.51
DFL 461	0.62
DFL 463	0.77
DFL 501	0.96
DFL 503	1.13
DFL 505	1.42
DFL 507	1.97
DFL 509	2.26
DFL 5011	2.87
DFL 5013	3.71
DFL 5015	4.23
TA 170	0.31
TA 172	0.41
TA 174	0.92
TA 176	1.30
TA 178	1.81
TA 200	0.42
TA 202	0.54
TA 204	0.59
TA 206	1.24
TA 208	1.40
TA 2010	1.97
TA 230	0.70
TA 232	0.88
TA 234	1.09
TA 236	1.14
TA 238	1.68
TA 2310	1.79
TA 2312	2.24
TA 2314	2.86
TA 2316	3.39
TAL 171	0.29
TAL 173	0.34
TAL 175	0.81
TAL 177	1.10
TAL 179	1.48
TAL 201	0.34
TAL 203	0.41
TAL 205	0.48
TAL 207	1.02
TAL 209	1.10
TAL 2011	1.55
TAL 231	0.52
TAL 233	0.66
TAL 235	0.84
TAL 237	0.95
TAL 239	1.10
TAL 2311	1.35
TAL 2313	1.77
TAL 2315	2.25
TAL 2317	2.61

Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)
RWK 4A1/20	2.04
RWK 4A1/24	2.38
RWK 4A1/27	2.71
RWK 4A1/29	2.85
RWK 4A2/40	4.06
RWK 4A2/49	4.86
RWK 4A2/53	5.33
RWK 4A3/63	6.33
RWK 4A3/69	6.94
RWK 4A3/76	7.61
RWK 4A1/16 R	1.55
RWK 4A1/18 R	1.81
RWK 4A1/21 R	2.07
RWK 4A1/22 R	2.19
RWK 4A2/32 R	3.18
RWK 4A2/36 R	3.57
RWK 4A2/41 R	4.13
RWK 4A3/48 R	4.81
RWK 4A3/55 R	5.54
RWK 4A3/61 R	6.09
BWK 6A1/16	1.55
BWK 6A1/19	1.85
BWK 6A1/21	2.07
BWK 6A1/22	2.24
BWK 6A2/32	3.18
BWK 6A2/37	3.77
BWK 6A2/41	4.07
BWK 6A3/47	4.70
BWK 6A3/55	5.53
BWK 6A3/61	6.12
BWK 6A1/12 R	1.24
BWK 6A1/14 R	1.43
BWK 6A1/17 R	1.67
BWK 6A1/18 R	1.80
BWK 6A2/25 R	2.49
BWK 6A2/29 R	2.94
BWK 6A2/34 R	3.40
BWK 6A3/37 R	3.72
BWK 6A3/44 R	4.40
BWK 6A3/50 R	5.00
BXN 125/16	1.57
BXN 130/24	2.38
BXN 225/32	3.21
BXN 230/49	4.89
BXN 325/50	4.96
BXN 425/64	6.36
BXN 330/74	7.38
BXN 430/99	9.91
BXL 125/12	1.21
BXL 130/19	1.85
BXL 225/24	2.44
BXL 230/38	3.77
BXL 325/38	3.81
BXL 425/48	4.83
BXL 330/57	5.72
BXL 430/76	7.64



CB Ø300 mm



CB Ø400/450/500 mm

Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C) kW
CBN 4B1/3	3.16
CBN 4B2/5	5.05
CBN 4B2/7	7.35
CBN 4B3/11	11.09
CBN 4B4/15	14.81
CBN 4F2/17	16.81
CBN 4F3/25	25.41
CBN 4F4/34	34.03
CBN 4K2/37	36.52
CBN 4K3/51	50.49
CBN 4K4/79	78.98
CBN 4K5/93	92.60
CBL 7B1/2	2.36
CBL 7B2/3	3.32
CBL 7B2/5	4.84
CBL 7B3/7	7.32
CBL 7B4/10	9.79
CBL 7F2/12	12.25
CBL 7F3/19	18.55
CBL 7F4/25	25.02
CBL 7K2/26	26.05
CBL 7K3/36	35.90
CBL 7K4/56	56.05
CBL 7K5/66	66.04



MT/DD



MTB
Ø500/560mm MTB
Ø710/800mm

Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C) kW
MT 4C1/3	3.33
MT 4E1/5	4.91
MT 4C2/6	6.44
MT 4C3/8	8.28
MT 4E2/9	8.90
MT 4E2/10	9.73
MT 4C3/10	10.43
MT 4E3/13	13.39
MT 4E3/16	15.53
MT 4E4/18	17.91
MT 4E4/20	19.61
MT 4G2/20	19.45
MT 4G3/23	23.15
MT 4J2/24	24.09
MT 4G3/29	28.94
MT 4L2/36	36.35
MT 4J4/49	48.87
MT 4L3/53	53.20
MT 4L4/68	67.92
MT 4L4/72	72.31
DD 7C1/2	2.34
DD 7C1/3	3.07
DD 7E1/4	3.62
DD 7C2/5	5.17
DD 7C2/6	6.00
DD 7E2/7	7.11
DD 7E2/8	8.48
DD 7C3/9	9.30
DD 7E3/11	10.58
DD 7E3/12	12.42
DD 7E4/14	14.44
DD 7G2/13	13.04
DD 7G3/17	16.66
DD 7J2/19	18.96
DD 7G3/21	21.11
DD 7J3/25	25.22
DD 7L2/26	26.30
DD 7L2/29	29.23
DD 7J4/34	33.66
DD 7L3/35	35.14
DD 7L3/38	37.85
DD 7L3/42	42.41
DD 7L4/53	53.17
MTB 6M1/14	14.11
MTB 6P1/21	20.47
MTB 6P1/25	24.57
MTB 6M2/28	28.44
MTB 6M2/34	34.07
MTB 6P2/41	41.10
MTB 6M3/43	42.79
MTB 6P2/50	49.65
MTB 6P3/59	58.47
MTB 6M4/69	68.66
MTB 6P3/75	74.72
MTB 6T2/79	79.07
MTB 6S3/86	86.43
MTB 6T2/100	99.63
MTB 6T2/114	114.09
MTB 6T3/132	132.31
MTB 6T3/151	151.45



DDC/DDI/DXL Ø500/560mm

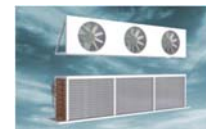


DDC/DDI/DXL Ø710/800mm

Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C) kW
DDC 8M1/11	11.33
DDC 8P1/17	17.22
DDC 8P1/19	19.20
DDC 8P1/22	22.09
DDC 8S1/24	23.83
DDC 8M2/30	30.25
DDC 8P2/35	34.79
DDC 8P2/39	39.25
DDC 8S2/40	40.24
DDC 8M3/46	45.67
DDC 8T1/46	46.19
DDC 8P3/59	59.33
DDC 8T2/61	61.07
DDC 8P3/69	69.10
DDC 8T2/80	79.69
DDC 8S3/80	79.76
DDC 8T2/94	93.53
DDL 10M1/10	9.57
DDL 10P1/14	14.21
DDL 10P1/17	16.83
DDL 10M2/19	19.43
DDL 10S1/21	20.57
DDL 10M2/26	25.74
DDL 10P2/29	28.63
DDL 10M2/30	30.37
DDL 10P2/34	34.25
DDL 10M3/39	38.79
DDL 10S2/40	39.95
DDL 10P2/41	40.45
DDL 10M3/46	45.79
DDL 10P3/52	51.68
DDL 10T2/54	53.58
DDL 10P3/62	61.71
DDL 10T2/71	71.13
DDL 10S3/72	71.51
DDL 10T2/85	84.61
DXL 12M1/8	8.44
DXL 12P1/12	12.42
DXL 12M2/17	17.11
DXL 12P1/18	18.40
DXL 12M2/23	23.03
DXL 12P2/25	24.98
DXL 12M2/28	27.63
DXL 12P2/31	31.21
DXL 12M3/35	34.66
DXL 12P2/37	37.34
DXL 12P3/47	47.03
DXL 12T2/48	47.77
DXL 12P3/57	56.83
DXL 12T2/64	64.39
DXL 12S3/66	66.19
DXL 12T2/77	77.12



BSUT

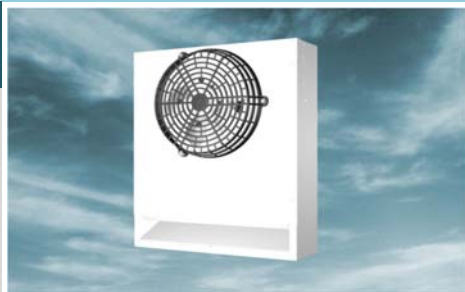


BSUS

Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C) kW
BSUT 1102.2	19.45
BSUT 1202.2	37.31
BSUT 1302.2	52.16
BSUT 1402.2	62.68
BSUT 1402.2 XL	62.68
BSUT 1502.2	76.20
BSUT 1502.2 XL	76.20
BSUT 1602.2	92.50
BSUT 1602.2 XL	92.50
BSUT 1702.2	119.18
BSUT 1702.2 XL	119.18
BSUT 1802.2 XL	123.90
BSUT 1902.2 XL	156.88
BSUT 2102.2	19.31
BSUT 2202.2	37.71
BSUT 2302.2	52.16
BSUT 2402.2	55.84
BSUT 2402.2 XL	55.84
BSUT 2502.2	75.68
BSUT 2502.2 XL	75.68
BSUT 2602.2	79.49
BSUT 2602.2 XL	79.49
BSUT 2702.2 XL	106.55
BSUT 2802.2 XL	123.90
BSUT 2902.2 XL	131.33
BSUS 3102.2	19.45
BSUS 3202.2	37.31
BSUS 3302.2	52.16
BSUS 3402.2	62.68
BSUS 3402.2 XL	62.68
BSUS 3502.2	76.20
BSUS 3502.2 XL	76.20
BSUS 3602.2	92.50
BSUS 3602.2 XL	92.50
BSUS 3702.2	119.18
BSUS 3702.2 XL	119.18
BSUS 3802.2 XL	123.90
BSUS 3902.2 XL	156.88
BSUS 4102.2	19.31
BSUS 4202.2	37.71
BSUS 4302.2	52.16
BSUS 4402.2	55.84
BSUS 4402.2 XL	55.84
BSUS 4502.2	75.68
BSUS 4502.2 XL	75.68
BSUS 4602.2	79.49
BSUS 4602.2 XL	79.49
BSUS 4702.2 XL	106.55
BSUS 4802.2 XL	123.90
BSUS 4902.2 XL	131.33

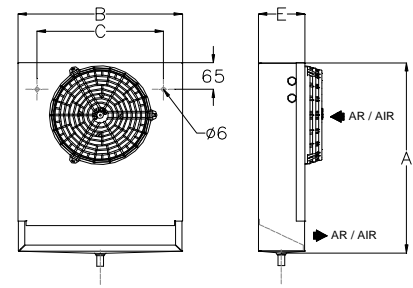
AP / APL

Evaporadores de Parede Wall-Type Unit Coolers
 Espaçamento Fin Spacing 4,2 / 6,3 mm
 Ø Ventiladores Ø Fans 200 / 230 mm



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
AP 204/431	0.31		1.24	0.27	1	200	200	2.0	1320	35	0.21	230/1/50	
AP 204/439	0.39		1.66	0.36	1	200	240	2.0	1320	35	0.21	230/1/50	
AP 234/463	0.63		2.31	0.47	1	230	360	2.0	1300	38	0.23	230/1/50	
APL 204/626	0.26	0.16	0.86	0.27	1	200	220	2.5	1320	35	0.21	230/1/50	
APL 204/629	0.29	0.18	1.15	0.36	1	200	260	2.5	1320	35	0.21	230/1/50	
APL 234/645	0.45	0.27	1.60	0.47	1	230	390	2.5	1300	38	0.23	230/1/50	

Modelo Type	Preço Price		Opções Options										
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chaparia inox Stainless steel casing	Tab. esgoto Isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduites Air Sock Adapter
	EUR		EUR										
AP	204/431	S/P.	S/P.		S/P.	S/P.							
AP	204/439	S/P.	S/P.		S/P.	S/P.				Não disponível	Not available		
AP	234/463	S/P.	S/P.		S/P.	S/P.							
APL	204/626	S/P.	S/P.		S/P.	S/P.							
APL	204/629	S/P.	S/P.		S/P.	S/P.							
APL	234/645	S/P.	S/P.		S/P.	S/P.				Não disponível	Not available		



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	0.30	1.3	230/1/50	3/8	3/8	3/4	465	390	300	110	5.0	0.04	AP 204/431
	0.30	1.3	230/1/50	3/8	3/8	3/4	565	390	300	140	6.0	0.05	AP 204/439
	0.30	1.3	230/1/50	3/8	3/8	3/4	565	490	400	140	6.5	0.06	AP 234/463
	0.30	1.3	230/1/50	3/8	3/8	3/4	465	390	300	110	5.0	0.04	APL 204/626
	0.30	1.3	230/1/50	3/8	3/8	3/4	565	390	300	140	6.0	0.05	APL 204/629
	0.30	1.3	230/1/50	3/8	3/8	3/4	565	490	400	140	6.5	0.06	APL 234/645

Factor de correcção "RCm" Correction Factor "RCm"								
AP		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.298	1.168	1.039	0.909	0.781	0.679	0.564
	+2	1.200	1.080	1.000	0.857	0.741	0.638	0.517
	0	1.140	1.026	0.912	0.797	0.682	0.585	0.470
	-2	1.111	1.001	0.909	0.794	0.680	0.582	0.466

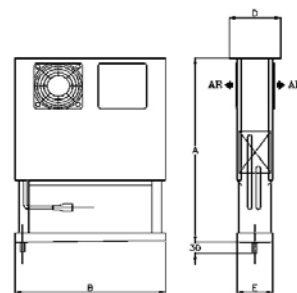
Factor de correcção "RCm" Correction Factor "RCm"								
APL		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490
	-15	1.018	0.918	0.830	0.730	0.640	0.539	0.434
	-20	0.963	0.867	0.770	0.660	0.583	0.490	0.393
	-25	0.950	0.854	0.764	0.649	0.567	0.476	0.385
	-34					0.561	0.471	0.381

T_c = Temperatura de câmara Room temperature



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
APD 111/23	0.23		1.09	0.25	1	113	110	2.0	2650	19	0.12	230/1/50
APD 111/30	0.30		1.46	0.33	1	113	100	2.0	2650	19	0.12	230/1/50
APD 211/42	0.42		1.83	0.41	2	113	140	2.0	2650	38	0.24	230/1/50
APD 211/46	0.46		2.19	0.49	2	113	125	2.0	2650	38	0.24	230/1/50
APD 211/25	0.25		1.10	0.24	2	113	200	2.0	2650	38	0.24	230/1/50
APD 211/36	0.36		1.64	0.36	2	113	195	2.0	2650	38	0.24	230/1/50
APD 211/49	0.49		2.20	0.48	2	113	185	2.0	2650	38	0.24	230/1/50
APD 211/58	0.58		2.75	0.60	2	113	175	2.0	2650	38	0.24	230/1/50
APD 211/68	0.68		3.30	0.72	2	113	170	2.0	2650	38	0.24	230/1/50
APD 212/91	0.91		4.41	0.96	2	121	220	2.0	2750	38	0.24	230/1/50
APD 212/97	0.97		5.51	1.19	2	121	200	2.0	2750	38	0.24	230/1/50

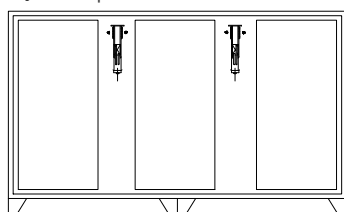
Modelo Type	Preço Price		Opções Options										
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chaparia inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter
APD 111/23	S/P.	Não disponível Not available	S/P.	S/P.	S/P.	Não disponível Not available							
APD 111/30	S/P.		S/P.	S/P.	S/P.								
APD 211/42	S/P.		S/P.	S/P.	S/P.								
APD 211/46	S/P.		S/P.	S/P.	S/P.								
APD 211/25	S/P.		S/P.	S/P.	S/P.								
APD 211/36	S/P.		S/P.	S/P.	S/P.								
APD 211/49	S/P.		S/P.	S/P.	S/P.								
APD 211/58	S/P.		S/P.	S/P.	S/P.								
APD 211/68	S/P.		S/P.	S/P.	S/P.								
APD 212/91	S/P.		S/P.	S/P.	S/P.								
APD 212/97	S/P.		S/P.	S/P.	S/P.								



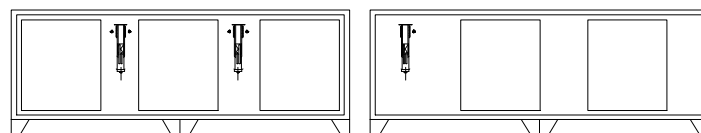
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type	
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	in	in	in	A	B	D	E	Kg	m ³		
				3/8	3/8	5/8	mm				3.9	0.07	APD	111/23
				3/8	3/8	5/8	500	380	130	89	4.1	0.07	APD	111/30
				3/8	3/8	5/8	550	380	130	89	5.5	0.07	APD	211/42
				3/8	3/8	5/8	550	380	130	89	5.8	0.07	APD	211/46
				3/8	3/8	5/8	500	420	145	117	4.8	0.07	APD	211/25
				3/8	3/8	5/8	500	420	145	117	5.1	0.07	APD	211/36
				3/8	3/8	5/8	500	420	145	117	5.5	0.07	APD	211/49
				3/8	3/8	5/8	550	420	145	117	6.2	0.07	APD	211/58
				3/8	3/8	5/8	550	420	145	117	6.5	0.07	APD	211/68
				3/8	3/8	5/8	680	420	145	117	8.5	0.07	APD	212/91
				3/8	3/8	5/8	680	420	145	117	9.1	0.07	APD	212/97

		Factor de correção "RCm" Correction Factor "RCm"						
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.298	1.168	1.039	0.909	0.781	0.679	0.564
	+2	1.200	1.080	1.000	0.857	0.741	0.638	0.517
	0	1.140	1.026	0.912	0.797	0.682	0.585	0.470
	-2	1.111	1.001	0.909	0.794	0.680	0.582	0.466

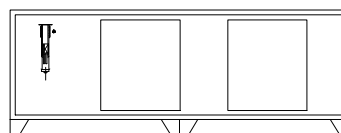
Aplicações Applications



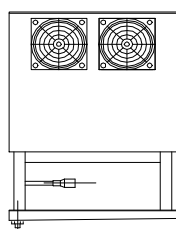
Armário frigorífico
Reach-in Cabinet



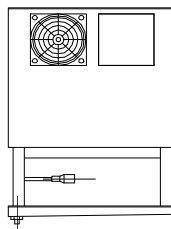
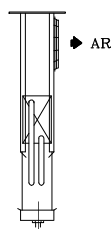
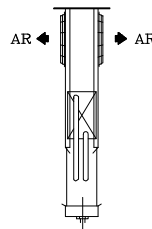
Bancada frigorífica
Under counter



Bancada frigorífica
Under counter



Variante
 Variant

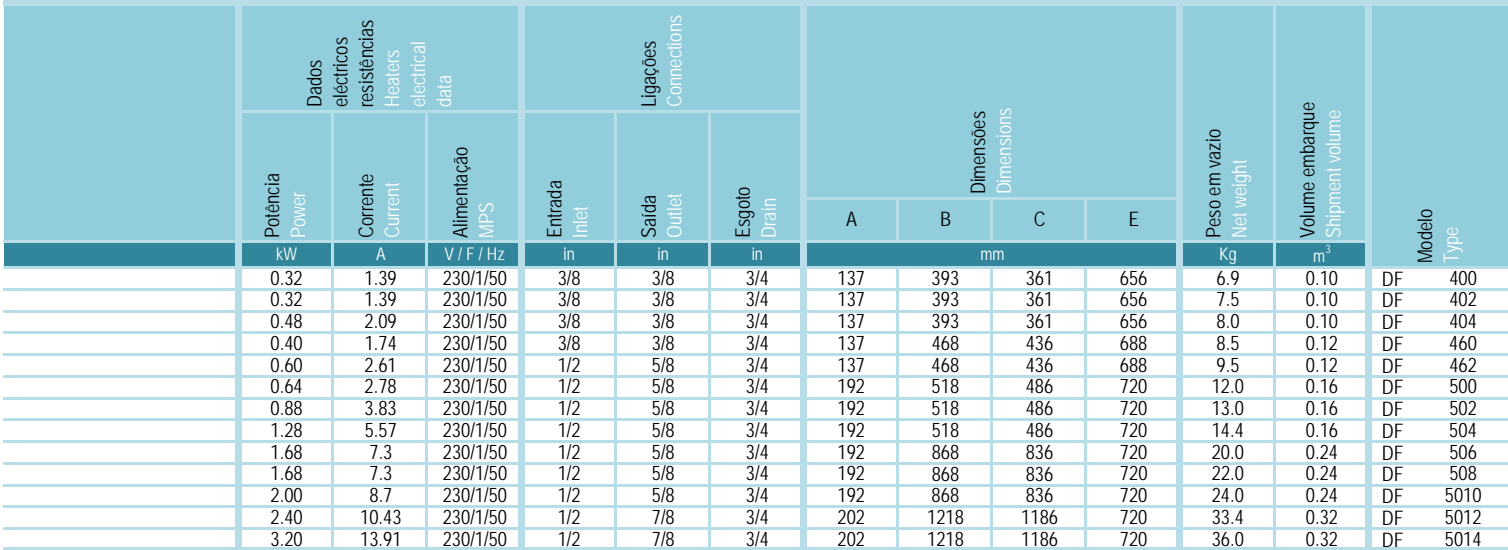
Standard
Standard

QUIRON
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Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
DF 400	0.44		2.20	0.53	1	200	320	2.5	1300	35	0.21	230/1/50	
DF 402	0.61		2.90	0.71	1	200	300	2.5	1300	35	0.21	230/1/50	
DF 404	0.70		3.70	0.90	1	200	280	2.5	1300	35	0.21	230/1/50	
DF 460	0.88		3.90	0.90	1	230	430	3.0	1300	38	0.23	230/1/50	
DF 462	1.06		4.90	1.10	1	230	400	3.0	1300	38	0.23	230/1/50	
DF 500	1.24		5.10	1.10	1	254	650	4.0	1300	70	0.48	230/1/50	
DF 502	1.48		6.80	1.50	1	254	600	4.0	1300	70	0.48	230/1/50	
DF 504	1.72		8.50	1.83	1	254	580	4.0	1300	70	0.48	230/1/50	
DF 506	2.71		10.20	1.94	2	254	1300	4.0	1300	140	0.96	230/1/50	
DF 508	2.97		13.60	2.60	2	254	1200	4.0	1300	140	0.96	230/1/50	
DF 5010	3.50		17.00	3.23	2	254	1160	4.0	1300	140	0.96	230/1/50	
DF 5012	4.67		20.40	3.70	3	254	1800	4.0	1300	210	1.44	230/1/50	
DF 5014	5.31		25.50	4.63	3	254	1740	4.0	1300	210	1.44	230/1/50	

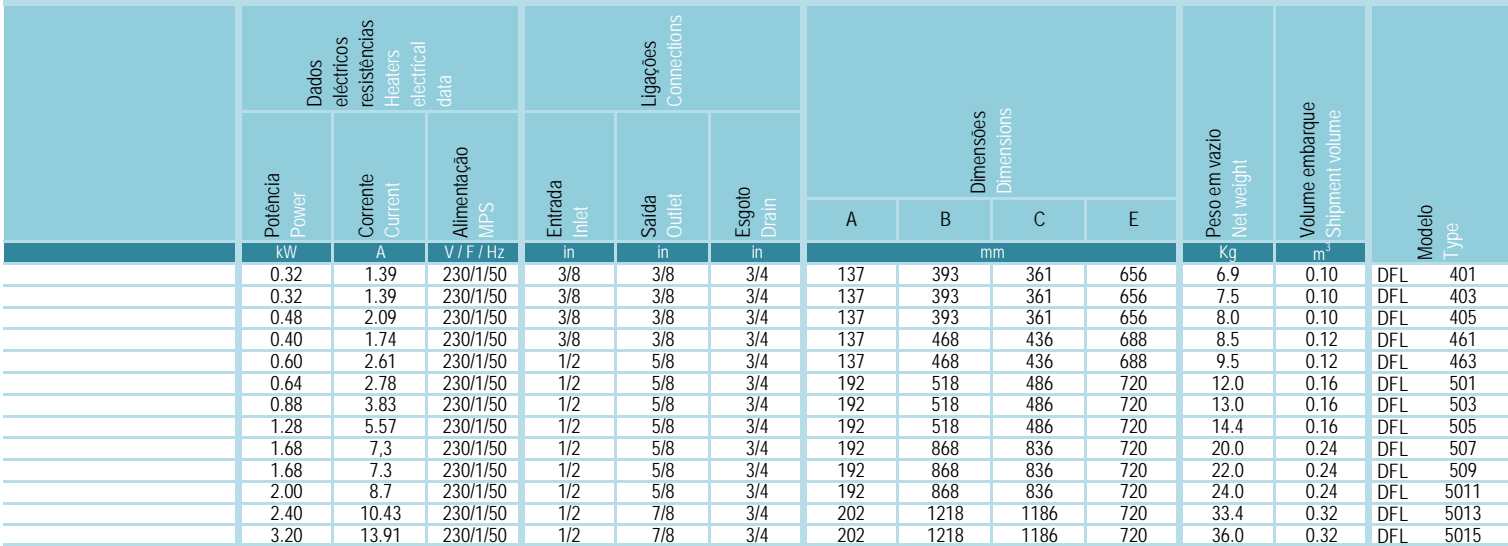
Modelo Type		Preço Price		Opções Options											
		Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapaia Inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock	Adaptador
		EUR		EUR											
DF	400	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	Não disponível Not available	Não disponível Not available	Não disponível Not available	S/P.	S/P.	Não disponível Not available	Não disponível Not available	
DF	402	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	404	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	460	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	462	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	500	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	502	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	504	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	506	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	508	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	5010	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	5012	S/P.	S/P.	S/P.	S/P.	S/P.									
DF	5014	S/P.	S/P.	S/P.	S/P.	S/P.									

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Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans							Alimentação MPS V / F / Hz	
					Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Projeção Ar Air Throw m	Rotação Revolution rpm	Potência Power W	Corrente Current A		
DFL 401	0.33	0.20	1.50	0.53	1	200	340	3.0	1300	35	0.21	230/1/50	
DFL 403	0.43	0.26	2.00	0.71	1	200	320	3.0	1300	35	0.21	230/1/50	
DFL 405	0.51	0.31	2.50	0.90	1	200	300	3.0	1300	35	0.21	230/1/50	
DFL 461	0.62	0.38	2.70	0.90	1	230	450	3.5	1300	38	0.23	230/1/50	
DFL 463	0.77	0.47	3.40	1.10	1	230	440	3.5	1300	38	0.23	230/1/50	
DFL 501	0.96	0.58	3.50	1.10	1	254	700	4.5	1300	70	0.48	230/1/50	
DFL 503	1.13	0.68	4.70	1.50	1	254	650	4.5	1300	70	0.48	230/1/50	
DFL 505	1.42	0.86	5.90	1.83	1	254	620	4.5	1300	70	0.48	230/1/50	
DFL 507	1.97	1.19	7.10	1.94	2	254	1400	4.5	1300	140	0.96	230/1/50	
DFL 509	2.26	1.37	9.40	2.60	2	254	1300	4.5	1300	140	0.96	230/1/50	
DFL 5011	2.87	1.74	11.80	3.23	2	254	1240	4.5	1300	140	0.96	230/1/50	
DFL 5013	3.71	2.25	14.10	3.70	3	254	1950	4.5	1300	210	1.44	230/1/50	
DFL 5015	4.23	2.56	17.70	4.63	3	254	1860	4.5	1300	210	1.44	230/1/50	

Modelo Type		Preço Price		Opções Options										
		Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapaia Inox Stainless steel casing	Tab. esgolo isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condulas Air Sock Adapter
		EUR		EUR										
DFL	401	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available					S/P.	Não disponível Not available	
DFL	403	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	405	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	461	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	463	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	501	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	503	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	505	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	507	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	509	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	5011	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	5013	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
DFL	5015	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		

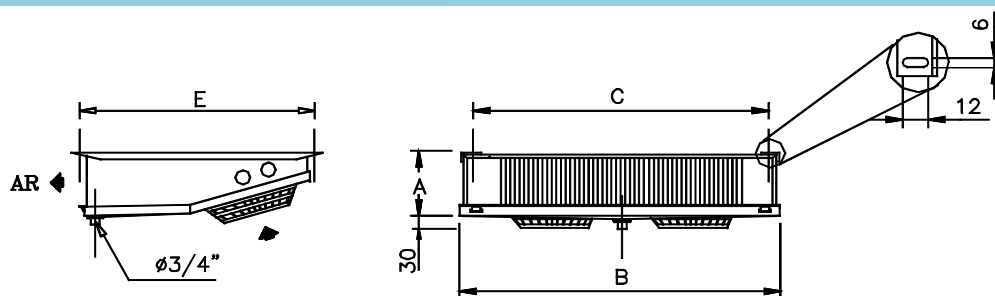


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Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
TA 170	0.31		1.50	0.33	1	172	170	2.0	1300	32	0.20	230/1/50	
TA 172	0.41		2.20	0.50	1	172	145	2.0	1300	32	0.20	230/1/50	
TA 174	0.92		4.40	0.85	2	172	290	2.0	1300	64	0.40	230/1/50	
TA 176	1.30		6.60	1.21	3	172	430	2.0	1300	96	0.60	230/1/50	
TA 178	1.81		8.80	1.60	4	172	570	2.0	1300	128	0.80	230/1/50	
TA 200	0.42		1.70	0.37	1	200	300	3.0	1300	35	0.21	230/1/50	
TA 202	0.54		2.30	0.49	1	200	270	3.0	1300	35	0.21	230/1/50	
TA 204	0.59		2.80	0.61	1	200	250	3.0	1300	35	0.21	230/1/50	
TA 206	1.24		5.70	1.10	2	200	500	3.0	1300	70	0.42	230/1/50	
TA 208	1.40		6.80	1.30	2	200	480	3.0	1300	70	0.42	230/1/50	
TA 2010	1.97		8.50	1.54	3	200	750	3.0	1300	105	0.63	230/1/50	
TA 230	0.70		2.60	0.55	1	230	480	3.5	1300	38	0.23	230/1/50	
TA 232	0.88		3.40	0.73	1	230	460	3.5	1300	38	0.23	230/1/50	
TA 234	1.09		4.30	0.92	1	230	430	3.5	1300	38	0.23	230/1/50	
TA 236	1.14		5.10	1.10	1	230	390	3.5	1300	38	0.23	230/1/50	
TA 238	1.68		5.10	1.00	2	230	960	3.5	1300	76	0.46	230/1/50	
TA 2310	1.79		6.80	1.30	2	230	920	3.5	1300	76	0.46	230/1/50	
TA 2312	2.24		8.50	1.62	2	230	860	3.5	1300	76	0.46	230/1/50	
TA 2314	2.86		10.20	1.90	3	230	1380	3.5	1300	114	0.69	230/1/50	
TA 2316	3.39		12.80	2.32	3	230	1290	3.5	1300	114	0.69	230/1/50	

Modelo Type		Preço Price		Opções Options													
		Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapaia inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter			
		EUR		EUR													
TA 170	Sob pedido Under request			Não disponível Not available												Sob pedido Under request	Não disponível Not available
TA 172																	
TA 174																	
TA 176																	
TA 178																	
TA 200	S/P.	S/P.		S/P.	S/P.	S/P.		Não disponível Not available				Sob pedido Under request	Não disponível Not available				
TA 202	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 204	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 206	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 208	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 2010	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 230	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 232	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 234	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 236	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 238	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 2310	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 2312	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 2314	S/P.	S/P.		S/P.	S/P.	S/P.											
TA 2316	S/P.	S/P.		S/P.	S/P.	S/P.											



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m³	
	0.20	0.87	230/1/50	3/8	3/8	3/4	107	468	436	453	4.8	0.06	TA 170
	0.40	1.74	230/1/50	3/8	3/8	3/4	107	468	436	453	5.3	0.06	TA 172
	0.64	2.78	230/1/50	3/8	3/8	3/4	107	768	736	453	9.5	0.07	TA 174
	0.96	4.17	230/1/50	1/2	5/8	3/4	107	1068	1036	453	13.5	0.09	TA 176
	1.28	5.57	230/1/50	1/2	5/8	3/4	107	1368	1336	453	17.5	0.12	TA 178
	0.32	1.39	230/1/50	3/8	3/8	3/4	135	518	486	483	6.0	0.06	TA 200
	0.32	1.39	230/1/50	3/8	3/8	3/4	135	518	486	483	6.4	0.06	TA 202
	0.64	2.78	230/1/50	3/8	3/8	3/4	135	518	486	483	6.8	0.06	TA 204
	1.00	4.35	230/1/50	1/2	5/8	3/4	135	868	836	483	12.5	0.11	TA 206
	1.00	4.35	230/1/50	1/2	5/8	3/4	135	868	836	483	13.0	0.11	TA 208
	1.60	6.96	230/1/50	1/2	5/8	3/4	135	1218	1186	483	18.0	0.17	TA 2010
	0.32	1.39	230/1/50	3/8	3/8	3/4	190	518	486	503	7.0	0.06	TA 230
	0.44	1.91	230/1/50	3/8	3/8	3/4	190	518	486	503	7.6	0.06	TA 232
	0.64	2.78	230/1/50	1/2	5/8	3/4	190	518	486	503	8.2	0.06	TA 234
	0.64	2.78	230/1/50	1/2	5/8	3/4	190	518	486	503	8.7	0.06	TA 236
	0.84	3.65	230/1/50	1/2	5/8	3/4	190	868	836	503	12.5	0.11	TA 238
	0.84	3.65	230/1/50	1/2	5/8	3/4	190	868	836	503	13.8	0.11	TA 2310
	1.00	4.35	230/1/50	1/2	5/8	3/4	190	868	836	503	14.8	0.11	TA 2312
	1.20	5.22	230/1/50	1/2	5/8	3/4	190	1218	1186	503	19.5	0.17	TA 2314
	1.60	6.96	230/1/50	1/2	5/8	3/4	190	1218	1186	503	21.0	0.17	TA 2316

Tabela selecção rápida			
Quick selection table			
Câmara frigorífica (Tc = 0°C)			
Walk-in cooler (Tc = 0°C)			
m³	W	Modelo	Type
1,7 - 2,0	370	202	
2,0 - 2,3	420	204	
2,2 - 2,5	440	204	
2,4 - 2,8	480	230	
2,6 - 3,0	500	230	
2,9 - 3,3	550	232	
3,2 - 3,7	570	232	
3,6 - 4,1	620	174	
4,1 - 4,7	690	234	206
4,7 - 5,4	770	236	
6,4 - 7,4	880	176	
9,9 - 11,4	1200	238	
11,0 - 13,0	1500	2010	2312
13,0 - 15,0	1900	2314	
19,0 - 25,0	2400	2316	

Tabela selecção rápida			
Quick selection table			
Armário frigorífico (Tc = 0°C)			
Reach-in cooler (Tc = 0°C)			
m³	W	Modelo	Type
0,15 - 0,17	180	170	
0,25 - 0,29	260	172	200
0,5 - 0,58	400	202	204
0,8 - 0,9	520	230	
1,0 - 1,5	680	174	
1,2 - 1,7	850	206	
2,0 - 2,3	910	176	
2,5 - 2,9	1080	238	
3,0 - 3,5	1250	2310	178
3,9 - 4,5	1750	2314	2312

		Factor de correcção "RCm" Correction Factor "RCm"						
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.298	1.168	1.039	0.909	0.781	0.679	0.564
	+2	1.200	1.080	1.000	0.857	0.741	0.638	0.517
	0	1.140	1.026	0.912	0.797	0.682	0.585	0.470
	-2	1.111	1.001	0.909	0.794	0.680	0.582	0.466

T_C = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária	Daily rotation	10%	(da capacidade da câmara) (of the chamber capacity)
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Tempo arrefecimento Cooling time 18h

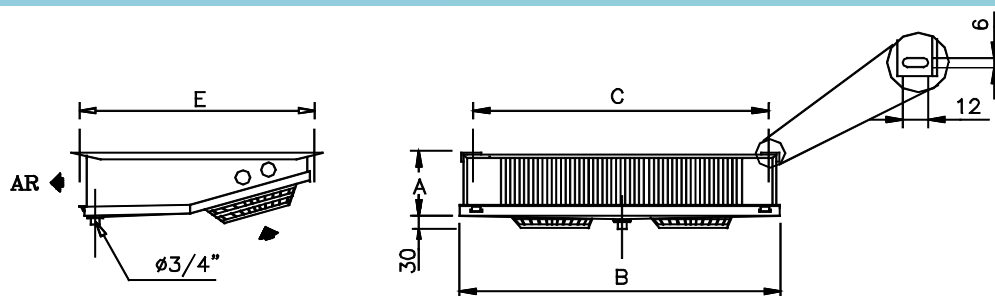
Tipo de uso	Usage	Normal
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QUIRON
by **centauro**



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
TAL 171	0.29	0.18	1.00	0.33	1	172	200	2.5	1300	32	0.20	230/1/50	
TAL 173	0.34	0.21	1.50	0.50	1	172	170	2.5	1300	32	0.20	230/1/50	
TAL 175	0.81	0.49	3.00	0.85	2	172	340	2.5	1300	64	0.40	230/1/50	
TAL 177	1.10	0.67	4.60	1.21	3	172	540	2.5	1300	96	0.60	230/1/50	
TAL 179	1.48	0.90	6.10	1.60	4	172	680	2.5	1300	128	0.80	230/1/50	
TAL 201	0.34	0.21	1.20	0.37	1	200	320	3.5	1300	35	0.21	230/1/50	
TAL 203	0.41	0.25	1.60	0.49	1	200	300	3.5	1300	35	0.21	230/1/50	
TAL 205	0.48	0.29	2.00	0.61	1	200	280	3.5	1300	35	0.21	230/1/50	
TAL 207	1.02	0.62	3.90	1.10	2	200	560	3.5	1300	70	0.42	230/1/50	
TAL 209	1.10	0.67	4.70	1.30	2	200	540	3.5	1300	70	0.42	230/1/50	
TAL 2011	1.55	0.94	5.90	1.54	3	200	840	3.5	1300	105	0.63	230/1/50	
TAL 231	0.52	0.32	1.80	0.55	1	230	500	4.0	1300	38	0.23	230/1/50	
TAL 233	0.66	0.40	2.40	0.73	1	230	480	4.0	1300	38	0.23	230/1/50	
TAL 235	0.84	0.51	3.00	0.92	1	230	440	4.0	1300	38	0.23	230/1/50	
TAL 237	0.95	0.58	3.50	1.10	1	230	420	4.0	1300	38	0.23	230/1/50	
TAL 239	1.10	0.67	3.50	1.00	2	230	1000	4.0	1300	76	0.46	230/1/50	
TAL 2311	1.35	0.82	4.70	1.30	2	230	960	4.0	1300	76	0.46	230/1/50	
TAL 2313	1.77	1.07	5.90	1.62	2	230	880	4.0	1300	76	0.46	230/1/50	
TAL 2315	2.25	1.36	7.10	1.90	3	230	1440	4.0	1300	114	0.69	230/1/50	
TAL 2317	2.61	1.58	8.80	2.32	3	230	1320	4.0	1300	114	0.69	230/1/50	

Modelo Type	Preço Price		Opções Options												
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapa Inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock Adapter		
	EUR		EUR												
TAL 171	Sob pedido Under request					Não disponível Not available					Sob pedido Under request		Não disponível Not available		
TAL 173															
TAL 175															
TAL 177															
TAL 179															
TAL 201	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available								Sob pedido Under request	
TAL 203	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 205	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 207	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 209	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 2011	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 231	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 233	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 235	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 237	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 239	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 2311	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 2313	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 2315	S/P.	S/P.	S/P.	S/P.	S/P.										
TAL 2317	S/P.	S/P.	S/P.	S/P.	S/P.										



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m³	
	0.20	0.87	230/1/50	3/8	3/8	3/4	107	468	436	453	4.8	0.06	TAL 171
	0.40	1.74	230/1/50	3/8	3/8	3/4	107	468	436	453	5.3	0.06	TAL 173
	0.64	2.78	230/1/50	3/8	3/8	3/4	107	768	736	453	9.5	0.07	TAL 175
	0.96	4.17	230/1/50	1/2	5/8	3/4	107	1068	1036	453	13.5	0.09	TAL 177
	1.28	5.57	230/1/50	1/2	5/8	3/4	107	1368	1336	453	17.5	0.12	TAL 179
	0.32	1.39	230/1/50	3/8	3/8	3/4	135	518	486	483	6.0	0.06	TAL 201
	0.32	1.39	230/1/50	3/8	3/8	3/4	135	518	486	483	6.4	0.06	TAL 203
	0.64	2.78	230/1/50	3/8	3/8	3/4	135	518	486	483	6.8	0.06	TAL 205
	1.00	4.35	230/1/50	1/2	5/8	3/4	135	868	836	483	12.5	0.11	TAL 207
	1.00	4.35	230/1/50	1/2	5/8	3/4	135	868	836	483	13.0	0.11	TAL 209
	1.60	6.96	230/1/50	1/2	5/8	3/4	135	1218	1186	483	18.0	0.17	TAL 2011
	0.32	1.39	230/1/50	3/8	3/8	3/4	190	518	486	503	7.0	0.06	TAL 231
	0.44	1.91	230/1/50	3/8	3/8	3/4	190	518	486	503	7.6	0.06	TAL 233
	0.64	2.78	230/1/50	1/2	5/8	3/4	190	518	486	503	8.2	0.06	TAL 235
	0.64	2.78	230/1/50	1/2	5/8	3/4	190	518	486	503	8.7	0.06	TAL 237
	0.84	3.65	230/1/50	1/2	5/8	3/4	190	868	836	503	12.5	0.11	TAL 239
	0.84	3.65	230/1/50	1/2	5/8	3/4	190	868	836	503	13.8	0.11	TAL 2311
	1.00	4.35	230/1/50	1/2	5/8	3/4	190	868	836	503	14.8	0.11	TAL 2313
	1.20	5.22	230/1/50	1/2	5/8	3/4	190	1218	1186	503	19.5	0.17	TAL 2315
	1.60	6.96	230/1/50	1/2	5/8	3/4	190	1218	1186	503	21.0	0.17	TAL 2317

Tabela selecção rápida Quick selection table		
Armário frigorífico (TC = -20°C) Reach-in cooler (TC = -20°C)		
m³	W	Modelo Type
0,16 - 0,18	160	171
0,30 - 0,35	200	173
0,50 - 0,58	290	205
0,60 - 0,70	400	233
0,80 - 1,00	490	175
1,00 - 1,15	730	177
1,28 - 1,47	760	2311
1,40 - 1,61	1000	2313

Tabela selecção rápida Quick selection table		
Câmara frigorífica (TC = -20°C) Walk-in cooler (TC = -20°C)		
m³	W	Modelo Type
2,0 - 2,3	490	175
3,8 - 4,4	730	177
5,0 - 6,0	860	2311
8,0 - 9,0	1050	2313
9,0 - 12,0	1300	2315
12,0 - 15,0	1500	2317

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490
	-15	1.018	0.918	0.830	0.730	0.640	0.539	0.434
	-20	0.963	0.867	0.770	0.660	0.583	0.490	0.393
	-25	0.950	0.854	0.764	0.649	0.567	0.476	0.385
	-34					0.561	0.471	0.381

T_C = Temperatura de câmara Room temperature

Tabela selecção rápida Quick selection table		
Câmara frigorífica (TC = +2°C) Walk-in cooler (TC = +2°C)		
m³	W	Modelo Type
1,7 - 2,0	370	205
2,0 - 2,3	420	231
2,4 - 2,8	480	233
2,6 - 3,0	500	233
3,2 - 3,7	570	175
3,6 - 4,1	620	175
4,1 - 4,7	690	237
4,7 - 5,4	770	209
6,4 - 7,4	880	239
9,9 - 11,4	1200	2011

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara) (of the chamber capacity)

Tempo arrefecimento Cooling time 18h

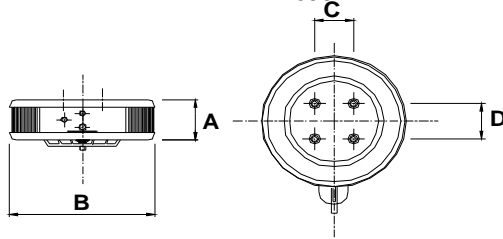
Tipo de uso Usage Normal



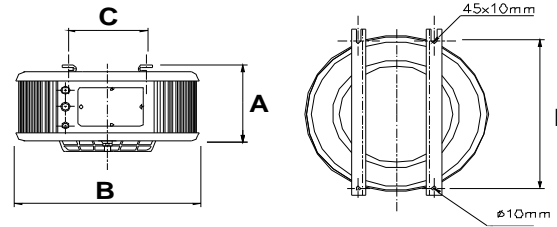
Modelo Type	Capacidade corrigida para (Tse=+12°C / TE=+1°C) Selection Capacity for (Tse=+12°C / TE=+1°C)	Capacidade (Tse=+10°C / TE=0°C) Capacity (Tse=+10°C / TE=0°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans									
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
ERK 304/413	1.42	1.29	3.74	0.67	1	300	1200	5.0	1300	90	0.62	230/1/50	49	
ERK 304/420	2.25	2.04	5.62	1.01	1	300	1400	5.0	1300	90	0.62	230/1/50	49	
ERK 304/331	3.39	3.08	9.79	1.35	1	300	1500	5.0	1300	90	0.62	230/1/50	49	
ERK 406/437	4.11	3.73	9.77	1.72	1	400	2400	6.0	950	200	0.95	230/1/50	50	
ERK 406/346	5.10	4.63	12.77	1.72	1	400	2400	6.0	950	200	0.95	230/1/50	50	
ERK 406/359	6.45	5.85	19.98	2.68	1	400	2300	6.0	950	200	0.95	230/1/50	50	
ERK 456/367	7.33	6.65	19.98	2.68	1	450	2800	8.0	950	200	0.95	230/1/50	52	
ERK 456/384	9.25	8.39	29.94	4.03	1	450	3200	8.0	950	200	0.95	230/1/50	52	
ERK 506/4109	12.02	10.91	33.87	5.87	1	500	5000	8.0	910	280	1.35	230/1/50	54	
ERK 506/3128	14.09	12.79	44.28	5.87	1	500	5000	8.0	910	280	1.35	230/1/50	54	
ERK 506/3155	17.04	15.46	64.97	8.57	1	500	4700	8.0	910	280	1.35	230/1/50	54	

Modelo Type	Sem resistências Without heaters		Preço Price		Opções Options												
	com bat. aq. %HR	With %HR control	Alheta revestida Coated fins	Lacado branco White painted	Chapa inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas deírost.	Desc. gás quente GE GE Hot gas deírost.	Desc. gás quente GT GT Hot gas deírost.	Desc. Água Water defrost	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter					
ERK 304/413	S/P.	S/P.															
ERK 304/420	S/P.	S/P.															
ERK 304/331	S/P.	S/P.															
ERK 406/437	S/P.	S/P.															
ERK 406/346	S/P.	S/P.															
ERK 406/359	S/P.	S/P.															
ERK 456/367	S/P.	S/P.															
ERK 456/384	S/P.	S/P.															
ERK 506/4109	S/P.	S/P.															
ERK 506/3128	S/P.	S/P.															
ERK 506/3155	S/P.	S/P.															

Ø 300 mm



Ø 400 / 450 / 500 mm



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	D	Kg	m ³	
							mm						
				3/8	3/8	G 3/8	152	515	177	157	6.3	0.10	ERK 304/413
				3/8	1/2	G 3/8	216	515	177	157	7.2	0.10	ERK 304/420
				1/2	5/8	G 3/8	280	515	177	157	7.2	0.10	ERK 304/331
				1/2	5/8	G 3/4	302	775	315	735	32.5	0.27	ERK 406/437
				1/2	7/8	G 3/4	302	775	315	735	29.5	0.27	ERK 406/346
				1/2	7/8	G 3/4	302	775	315	735	32.5	0.27	ERK 406/359
				1/2	7/8	G 3/4	302	775	345	735	32.5	0.27	ERK 456/367
				1/2	7/8	G 3/4	423	775	315	735	38.1	0.35	ERK 456/384
				5/8	1 1/8	G 3/4	487	975	450	920	49.8	0.54	ERK 506/4109
				5/8	1 1/8	G 3/4	487	975	450	920	52.3	0.54	ERK 506/3128
				5/8	1 3/8	G 3/4	487	975	450	920	58.9	0.54	ERK 506/3155

Factor de correcção "RC1"
Correction Factor "RC1"

		DT1 [°C]												
		16	15	14	13	12	11	10	9	8	7	6	5	4
Tse [°C]	16	1.762	1.652	1.469	1.322	1.220	1.119	1.018	0.916	0.805	0.703	0.604	0.499	0.402
	14	1.750	1.640	1.458	1.458	1.211	1.111	1.010	0.909	0.800	0.698	0.600	0.496	0.399
	12	1.737	1.628	1.447	1.447	1.203	1.102	1.003	0.902	0.794	0.694	0.595	0.493	0.397
	10	1.723	1.616	1.436	1.436	1.193	1.094	1.000	0.895	0.788	0.689	0.591	0.490	0.394
	8	1.713	1.606	1.427	1.427	1.186	1.087	0.979	0.881	0.782	0.684	0.587	0.487	0.391
	6	1.700	1.594	1.417	1.417	1.177	1.078	0.971	0.874	0.776	0.679	0.582	0.485	0.387
	4	1.685	1.580	1.405	1.405	1.167	1.070	0.963	0.867	0.771	0.674	0.578	0.482	0.385

Tse = Temperatura de câmara Room temperature

T_E = Temp. de evaporação Evaporation temperature

Dados de Cálculo Selection Data

Temperatura exterior Exterior temperature +32°C

Pé direito Room height 3,2m

Máquinas Machinery sem máquinas without machinery

Ocupação Occupation 1 pessoa/4m² 1 person/4m²

Iluminação Lighting 25W/m² 25W/m²

Aplicações Applications

- Climas Klimas

Tabela selecção rápida
Quick selection table

Sala climatizada c/ isolamento (TC = +12°C) Processing Room with insulation (TC = +12°C)			
m ²	kW	Modelo	Type
33 - 37	1.2	304/413	
58 - 66	2.1	304/420	
83 - 95	3.0	304/331	
108 - 124	3.9	406/437	
137 - 157	4.8	406/346	
171 - 196	6.0	406/359	
197 - 226	6.9	456/367	
238 - 273	8.1	456/384	
309 - 355	10.5	506/4109	
388 - 446	13.2	506/3128	
447 - 514	15.2	506/3155	

Tabela selecção rápida
Quick selection table

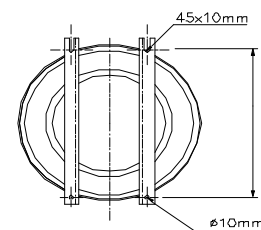
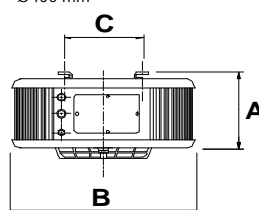
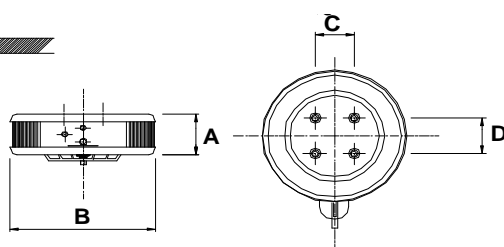
Sala climatizada s/ isolamento (TC = +12°C) Processing Room without insulation (TC = +12°C)			
m ²	kW	Modelo	Type
25 - 28	1.2	304/413	
44 - 50	2.1	304/420	
63 - 72	3.0	304/331	
81 - 93	3.9	406/437	
102 - 117	4.8	406/346	
128 - 147	6.0	406/359	
147 - 169	6.9	456/367	
176 - 202	8.1	456/384	
228 - 262	10.5	506/4109	
287 - 330	13.2	506/3128	
330 - 379	15.2	506/3155	

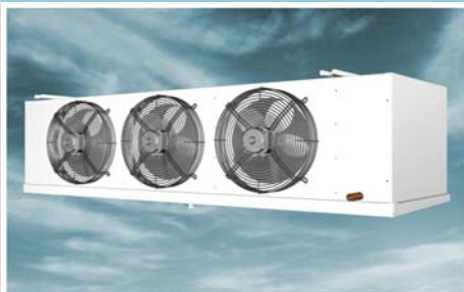


Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
ERN 204/402	0.18		1.01	0.19	1	200	430	3.0	1300	32	0.20	230/1/50	
ERN 204/403	0.29		1.68	0.31	1	200	500	3.0	1300	35	0.20	230/1/50	
ERN 234/405	0.45		2.18	0.40	1	230	470	4.0	1300	35	0.21	230/1/50	
ERN 234/406	0.63		2.90	0.54	1	230	540	4.0	1300	35	0.21	230/1/50	
ERN 304/412	1.21		4.68	0.84	1	300	1050	5.0	1300	90	0.62	230/1/50	
ERN 304/414	1.43		5.62	1.01	1	300	1100	5.0	1300	90	0.62	230/1/50	
ERN 406/636	3.69		10.58	2.68	1	400	3600	7.0	1300	320	0.63	400/3/50	
ERN 406/640	3.96		13.23	3.35	1	400	3800	7.0	1300	320	0.63	400/3/50	
ERN 404/449	4.86		15.28	2.68	1	400	3400	7.0	1300	320	0.63	400/3/50	
ERN 404/456	5.62		19.10	3.35	1	400	3600	7.0	1300	320	0.63	400/3/50	

Modelo Type		Preço Price		Opções Options											
		Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chaparia Inox Stainless steel casing	Tab. esgoto Isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock	Adaptador
		EUR		EUR											
ERN 204/402		S/P.	Não disponível Not available		S/P.	Standard	Sob pedido Under request	Não disponível Not available							
ERN 204/403		S/P.			S/P.										
ERN 234/405		S/P.			S/P.										
ERN 234/406		S/P.			S/P.										
ERN 304/412		S/P.			S/P.										
ERN 304/414		S/P.			S/P.										
ERN 406/636		S/P.			S/P.										
ERN 406/640		S/P.			S/P.										
ERN 404/449		S/P.			S/P.										
ERN 404/456		S/P.			S/P.										

A schematic diagram of a suspended ceiling system. It shows a horizontal grid structure with a central panel. Below the panel, a light fixture is depicted with two upward-pointing arrows indicating light emission. The entire assembly is shown in cross-section, with a hatched area above representing the structural ceiling.

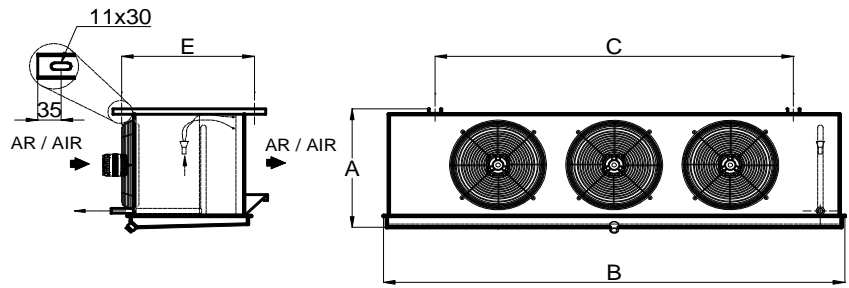
29



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
BXN 125/16	1.57		6.10	1.00	1	250	760	7	1300	70	0.48	230/1/50
BXN 130/24	2.38		8.74	1.40	1	300	1150	9	1300	90	0.62	230/1/50
BXN 225/32	3.21		12.10	1.90	2	250	1520	7	1300	140	0.96	230/1/50
BXN 230/49	4.89		17.48	2.80	2	300	2300	9	1300	180	1.24	230/1/50
BXN 325/50	4.96		18.20	2.90	3	250	2280	7	1300	210	1.44	230/1/50
BXN 425/64	6.36		22.50	3.60	4	250	2960	7	1300	280	1.92	230/1/50
BXN 330/74	7.38		26.20	4.10	3	300	3450	9	1300	270	1.86	230/1/50
BXN 430/99	9.91		34.90	5.50	4	300	4600	9	1300	360	2.48	230/1/50

Modelo Type	Preço Price		Opções Options											
	Sem resistências Without heaters	Com resistências With heaters	Alhela revestida Coated fins	Lacado branco White painted	Chapa inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock Adapter	
	EUR		EUR											
BXN 125/16	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available		
BXN 130/24	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BXN 225/32	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BXN 230/49	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BXN 325/50	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BXN 425/64	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BXN 330/74	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BXN 430/99	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			

Motores ESM (EC) disponíveis sob pedido.
 ESM (EC) motors available under request.



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	0.66	2.87	230/1/50	1/2	5/8	3/4 BSP	380	690	380	430	20.0	0.24	BXN 125/16
	0.90	3.91	230/1/50	1/2	5/8	3/4 BSP	445	760	450	430	24.0	0.31	BXN 130/24
	1.32	5.74	230/1/50	1/2	5/8	3/4 BSP	380	1040	730	430	30.0	0.34	BXN 225/32
	1.80	7.83	230/1/50	1/2	7/8	3/4 BSP	445	1180	870	430	38.0	0.46	BXN 230/49
	1.98	8.61	230/1/50	1/2	5/8	3/4 BSP	380	1390	1080	430	40.0	0.45	BXN 325/50
	2.40	10.44	230/1/50	1/2	7/8	3/4 BSP	380	1640	1330	430	49.0	0.52	BXN 425/64
	2.70	11.74	230/1/50	1/2	7/8	3/4 BSP	445	1600	1290	430	52.0	0.61	BXN 330/74
	3.60	15.65	230/1/50	1/2	1 1/8	3/4 BSP	445	2020	1710	430	66.0	0.76	BXN 430/99

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.298	1.168	1.039	0.909	0.781	0.679	0.564
	+2	1.200	1.08	1.000	0.857	0.741	0.638	0.517
	0	1.140	1.026	0.912	0.797	0.682	0.585	0.470
	-2	1.111	1.001	0.909	0.794	0.680	0.582	0.466

T_c = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

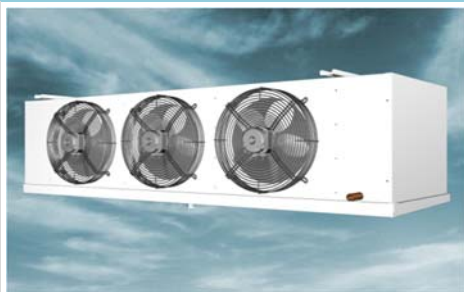
Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

Tempo arrefecimento Cooling time 18h

Tipo de uso Usage Normal

BXL

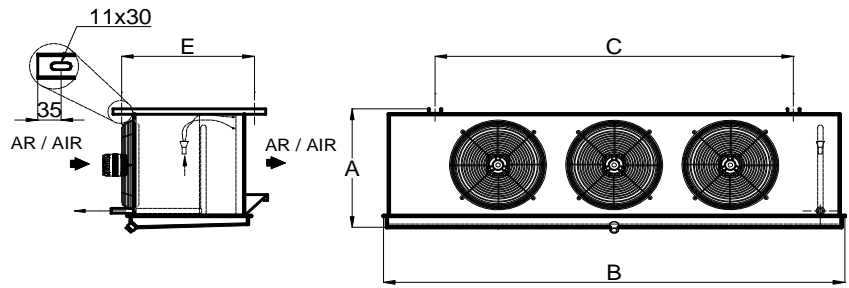
Evaporadores Cúbicos Cubic Coolers
 Espaçamento Fin Spacing 6,3 mm
 Ø Ventiladores Ø Fans 250 / 300 mm



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
BXL 125/12	1.21	0.73	4.20	1.00	1	250	890	8	1300	70	0.48	230/1/50	
BXL 130/19	1.85	1.12	6.05	1.40	1	300	1300	10	1300	90	0.62	230/1/50	
BXL 225/24	2.44	1.48	8.40	1.90	2	250	1780	8	1300	140	0.96	230/1/50	
BXL 230/38	3.77	2.28	12.10	2.80	2	300	2600	10	1300	180	1.24	230/1/50	
BXL 325/38	3.81	2.31	12.60	2.90	3	250	2670	8	1300	210	1.44	230/1/50	
BXL 425/48	4.83	2.93	15.60	3.60	4	250	3560	8	1300	280	1.92	230/1/50	
BXL 330/57	5.72	3.47	18.15	4.10	3	300	3900	10	1300	270	1.86	230/1/50	
BXL 430/76	7.64	4.63	24.20	5.50	4	300	5200	10	1300	360	2.48	230/1/50	

Modelo Type	Preço Price		Opções Options																
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapa inox Stainless steel casing	Tab. esgoto Isol.	Insulated drain pan	Desc. gás quente GM	GM Hot gas defrost	Desc. gás quente GE	GE Hot gas defrost	Desc. gás quente GT	GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola	Fan Heaters	Adaptador Condutas	Não disponível Not available
	EUR		EUR																
BXL 125/12	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	
BXL 130/19	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	
BXL 225/24	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	
BXL 230/38	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	
BXL 325/38	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	
BXL 425/48	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	
BXL 330/57	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	
BXL 430/76	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	

Motores ESM (EC) disponíveis sob pedido.
 ESM (EC) motors available under request.



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	0.66	2.87	230/1/50	1/2	5/8	3/4 BSP	380	690	380	430	20.0	0.24	BXL 125/12
	0.90	3.91	230/1/50	1/2	5/8	3/4 BSP	445	760	450	430	24.0	0.31	BXL 130/19
	1.32	5.74	230/1/50	1/2	5/8	3/4 BSP	380	1040	730	430	30.0	0.34	BXL 225/24
	1.80	7.83	230/1/50	1/2	7/8	3/4 BSP	445	1180	870	430	38.0	0.46	BXL 230/38
	1.98	8.61	230/1/50	1/2	5/8	3/4 BSP	380	1390	1080	430	40.0	0.45	BXL 325/38
	2.40	10.44	230/1/50	1/2	7/8	3/4 BSP	380	1640	1330	430	49.0	0.52	BXL 425/48
	2.70	11.74	230/1/50	1/2	7/8	3/4 BSP	445	1600	1290	430	52.0	0.61	BXL 330/57
	3.60	15.65	230/1/50	1/2	1 1/8	3/4 BSP	445	2020	1710	430	66.0	0.76	BXL 430/76

		Factor de correcção "RCm" Correction Factor "RCm"						
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490
	-15	1.018	0.918	0.830	0.730	0.640	0.539	0.434
	-20	0.963	0.867	0.770	0.660	0.583	0.490	0.393
	-25	0.950	0.854	0.764	0.649	0.567	0.476	0.385
	-34					0.561	0.471	0.381

T_c = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

Tempo arrefecimento Cooling time 18h

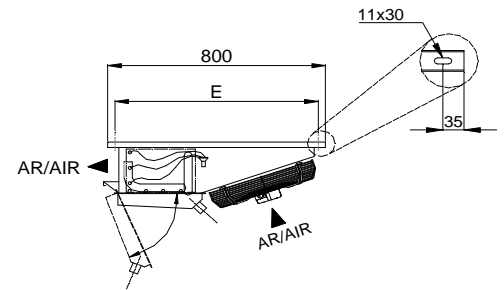
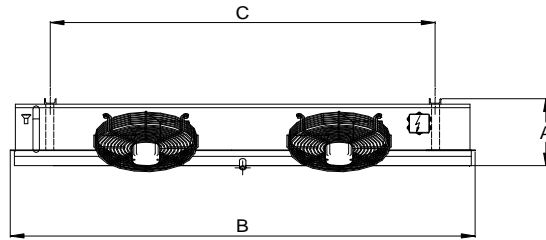
Tipo de uso Usage Normal



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
RWK 4A1/20	2.04		6.76	1.06	1	300	950	10	1370	73	0.32	230/1/50
RWK 4A1/24	2.38		8.45	1.33	1	300	880	10	1370	73	0.32	230/1/50
RWK 4A1/27	2.71		10.14	1.60	1	300	830	10	1370	73	0.32	230/1/50
RWK 4A1/29	2.85		11.83	1.86	1	300	800	10	1370	73	0.32	230/1/50
RWK 4A2/40	4.06		13.52	2.13	2	300	1900	10	1370	146	0.64	230/1/50
RWK 4A2/49	4.86		16.90	2.66	2	300	1760	10	1370	146	0.64	230/1/50
RWK 4A2/53	5.33		20.28	3.19	2	300	1660	10	1370	146	0.64	230/1/50
RWK 4A3/63	6.33		20.28	3.19	3	300	2850	10	1370	219	0.96	230/1/50
RWK 4A3/69	6.94		25.36	3.99	3	300	2640	10	1370	219	0.96	230/1/50
RWK 4A3/76	7.61		30.43	4.79	3	300	2490	10	1370	219	0.96	230/1/50

Modelo Type		Preço Price		Opções Options												
		Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chaparia inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock	Adaptador	
		EUR		EUR												
RWK	4A1/20	S/P.	S/P.	S/P.	Standard	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	S/P.	Não disponível Not available	S/P.		
RWK	4A1/24	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.		
RWK	4A1/27	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.		
RWK	4A1/29	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.		
RWK	4A2/40	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.		
RWK	4A2/49	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.		
RWK	4A2/53	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.		
RWK	4A3/63	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.		
RWK	4A3/69	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.		
RWK	4A3/76	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.		

Motores ESM (EC) disponíveis sob pedido
 ESM (EC) motors available under request



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	20.0	0.30	RWK 4A1/20
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	21.0	0.30	RWK 4A1/24
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	22.0	0.30	RWK 4A1/27
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	23.0	0.30	RWK 4A1/29
	2.40	10.43	230/1/50	1/2	5/8	3/4	240	1640	1325	730	33.0	0.49	RWK 4A2/40
	2.40	10.43	230/1/50	1/2	7/8	3/4	240	1640	1325	730	35.0	0.49	RWK 4A2/49
	2.40	10.43	230/1/50	1/2	7/8	3/4	240	1640	1325	730	37.0	0.49	RWK 4A2/53
	3.60	15.65	230/1/50	1/2	7/8	3/4	240	2290	1975	730	46.0	0.68	RWK 4A3/63
	3.60	15.65	230/1/50	1/2	7/8	3/4	240	2290	1975	730	49.0	0.68	RWK 4A3/69
	3.60	15.65	230/1/50	1/2	1 1/8	3/4	240	2290	1975	730	52.0	0.68	RWK 4A3/76

Tabela selecção rápida Quick selection table		
Câmara refrigerados (TC = +2/+4°C) Chilling room (TC = +2/+4°C)		
m ³	kW	Modelo Type
10 - 11	1.40	4A1/20
11 - 12	1.70	4A1/24
13 - 15	1.90	4A1/27
19 - 22	2.40	4A1/29
27 - 31	2.90	4A2/40
32 - 37	3.30	4A2/49
39 - 45	3.70	4A2/53
56 - 64	4.40	4A3/63
64 - 73	5.10	4A3/76

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.298	1.168	1.039	0.909	0.781	0.679	0.564
	+2	1.200	1.080	1.000	0.857	0.741	0.638	0.517
	0	1.140	1.026	0.912	0.797	0.682	0.585	0.470
	-2	1.111	1.001	0.909	0.794	0.680	0.582	0.466

T_C = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

Tempo arrefecimento Cooling time 18h

Tipo de uso Usage Normal

RWK -R

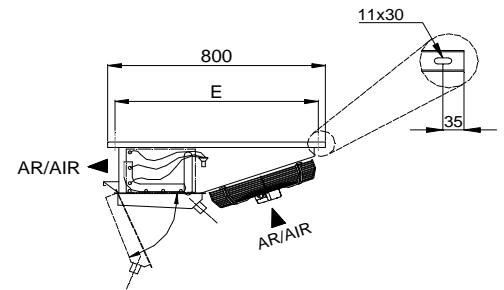
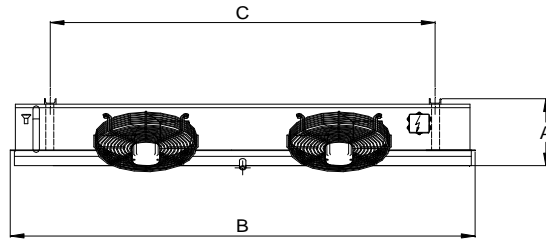
Evaporadores de Tecto Baixo Perfil Low Profile Ceiling Coolers
 Espaçamento Fin Spacing 4,2 mm
 Ø Ventiladores Ø Fans 300 mm



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
RWK 4A1/16 R	1.55		6.76	1.06	1	300	630	7	900	32	0.15	230/1/50
RWK 4A1/18 R	1.81		8.45	1.33	1	300	590	7	900	32	0.15	230/1/50
RWK 4A1/21 R	2.07		10.14	1.60	1	300	550	7	900	32	0.15	230/1/50
RWK 4A1/22 R	2.19		11.83	1.86	1	300	520	7	900	32	0.15	230/1/50
RWK 4A2/32 R	3.18		13.52	2.13	2	300	1260	7	900	64	0.30	230/1/50
RWK 4A2/36 R	3.57		16.90	2.66	2	300	1180	7	900	64	0.30	230/1/50
RWK 4A2/41 R	4.13		20.28	3.19	2	300	1100	7	900	64	0.30	230/1/50
RWK 4A3/48 R	4.81		20.28	3.19	3	300	1890	7	900	96	0.45	230/1/50
RWK 4A3/55 R	5.54		25.36	3.99	3	300	1760	7	900	96	0.45	230/1/50
RWK 4A3/61 R	6.09		30.43	4.79	3	300	1660	7	900	96	0.45	230/1/50

Modelo Type	Preço Price		Opções Options													
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapata Inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM	GM Hot gas defrost	Desc. gás quente GE	GE Hot gas defrost	Desc. gás quente GT	GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock Adapter
	EUR		EUR													
RWK 4A1/16 R	S/P.	S/P.	S/P.	Standard	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	S/P.	Não disponível Not available	
RWK 4A1/18 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		
RWK 4A1/21 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		
RWK 4A1/22 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		
RWK 4A2/32 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		
RWK 4A2/36 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		
RWK 4A2/41 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		
RWK 4A3/48 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		
RWK 4A3/55 R	S/P.	S/P.	S/P.	Standard	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	S/P.	Não disponível Not available	
RWK 4A3/61 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		

Motores ESM (EC) disponíveis sob pedido
 ESM (EC) motors available under request



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	20	0.30	RWK 4A1/16 R
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	21	0.30	RWK 4A1/18 R
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	22	0.30	RWK 4A1/21 R
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	23	0.30	RWK 4A1/22 R
	2.40	10.43	230/1/50	1/2	5/8	3/4	240	1640	1325	730	33	0.49	RWK 4A2/32 R
	2.40	10.43	230/1/50	1/2	7/8	3/4	240	1640	1325	730	35	0.49	RWK 4A2/36 R
	2.40	10.43	230/1/50	1/2	7/8	3/4	240	1640	1325	730	37	0.49	RWK 4A2/41 R
	3.60	15.65	230/1/50	1/2	7/8	3/4	240	2290	1975	730	46	0.68	RWK 4A3/48 R
	3.60	15.65	230/1/50	1/2	7/8	3/4	240	2290	1975	730	49	0.68	RWK 4A3/55 R
	3.60	15.65	230/1/50	1/2	1 1/8	3/4	240	2290	1975	730	52	0.68	RWK 4A3/61 R

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.298	1.168	1.039	0.909	0.781	0.679	0.564
	+2	1.200	1.080	1.000	0.857	0.741	0.638	0.517
	0	1.140	1.026	0.912	0.797	0.682	0.585	0.470
	-2	-	-	-	-	-	-	-

T_c = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

Tempo arrefecimento Cooling time 18h

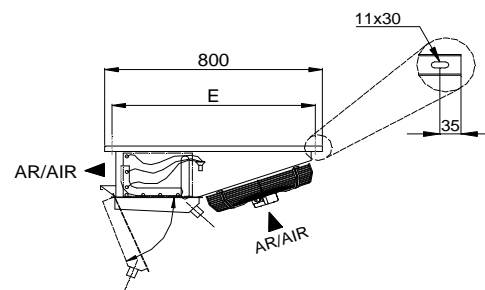
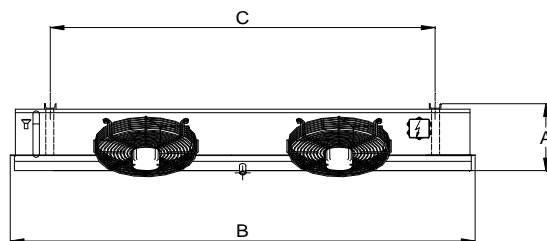
Tipo de uso Usage Normal



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
	kW	kW			Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Projeção Ar Air Throw m	Rotação Revolution rpm	Potência Power W	Corrente Current A		Alimentação MPS V / F / Hz
BWK 6A1/16	1.55	0.94	4.68	1.06	1	300	1130	12	1370	73	0.32	230/1/50	
BWK 6A1/19	1.85	1.12	5.85	1.33	1	300	1050	12	1370	73	0.32	230/1/50	
BWK 6A1/21	2.07	1.25	7.02	1.60	1	300	980	12	1370	73	0.32	230/1/50	
BWK 6A1/22	2.24	1.36	8.19	1.86	1	300	940	12	1370	73	0.32	230/1/50	
BWK 6A2/32	3.18	1.93	9.36	2.13	2	300	2260	12	1370	146	0.64	230/1/50	
BWK 6A2/37	3.77	2.28	11.70	2.66	2	300	2100	12	1370	146	0.64	230/1/50	
BWK 6A2/41	4.07	2.47	14.04	3.19	2	300	1960	12	1370	146	0.64	230/1/50	
BWK 6A3/47	4.70	2.85	14.04	3.19	3	300	3390	12	1370	219	0.96	230/1/50	
BWK 6A3/55	5.53	3.35	17.55	3.99	3	300	3150	12	1370	219	0.96	230/1/50	
BWK 6A3/61	6.12	3.71	21.06	4.79	3	300	2940	12	1370	219	0.96	230/1/50	

Modelo Type		Preço Price		Opções Options											
		Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chaparia Inox Stainless steel casing	Tab. esgoto Isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock Adapter	
		EUR		EUR											
BWK	6A1/16	S/P.	S/P.	S/P.	Standard	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	S/P.	Não disponível Not available		
BWK	6A1/19	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.			
BWK	6A1/21	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.			
BWK	6A1/22	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.			
BWK	6A2/32	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.			
BWK	6A2/37	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.			
BWK	6A2/41	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.			
BWK	6A3/47	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.			
BWK	6A3/55	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.			
BWK	6A3/61	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.			

Motores ESM (EC) disponíveis sob pedido
 ESM (EC) motors available under request



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	20.0	0.30	BWK 6A1/16
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	21.0	0.30	BWK 6A1/19
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	22.0	0.30	BWK 6A1/21
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	23.0	0.30	BWK 6A1/22
	2.40	10.43	230/1/50	1/2	5/8	3/4	240	1640	1325	730	33.0	0.49	BWK 6A2/32
	2.40	10.43	230/1/50	1/2	7/8	3/4	240	1640	1325	730	35.0	0.49	BWK 6A2/37
	2.40	10.43	230/1/50	1/2	7/8	3/4	240	1640	1325	730	37.0	0.49	BWK 6A2/41
	3.60	15.65	230/1/50	1/2	7/8	3/4	240	2290	1975	730	46.0	0.68	BWK 6A3/47
	3.60	15.65	230/1/50	1/2	7/8	3/4	240	2290	1975	730	49.0	0.68	BWK 6A3/55
	3.60	15.65	230/1/50	1/2	1 1/8	3/4	240	2290	1975	730	52.0	0.68	BWK 6A3/61

Tabela selecção rápida Quick selection table		
Câmara congelados (TC = -18/-20°C) Freezing room (TC = -18/-20°C)		
m ³	kW	Modelo Type
6 - 7	0.9	6A1/16
8 - 9	1.1	6A1/19
12 - 14	1.4	6A1/21
16 - 18	1.7	6A2/32
20 - 23	2.0	6A2/32
21 - 24	2.2	6A2/37
23 - 26	2.3	6A2/41
40 - 46	3.0	6A3/55
47 - 54	3.5	6A3/61

Tabela selecção rápida Quick selection table		
Câmara refrigerados (TC = +2/+4°C) Chilling room (TC = +2/+4°C)		
m ³	kW	Modelo Type
6 - 7	1.1	6A1/16
8 - 9	1.3	6A1/19
13 - 15	1.5	6A1/21
15 - 17	1.9	6A1/22
28 - 32	2.3	6A2/32
31 - 35	2.7	6A2/38
32 - 37	2.9	6A2/41
37 - 42	3.4	6A3/47
54 - 62	4.0	6A3/55
59 - 68	4.6	6A3/61

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490
	-15	1.018	0.918	0.830	0.730	0.640	0.539	0.434
	-20	0.963	0.867	0.770	0.660	0.583	0.490	0.393
	-25	0.950	0.854	0.764	0.649	0.567	0.476	0.385
	-34					0.561	0.471	0.381

T_C = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

Tempo arrefecimento Cooling time 18h

Tipo de uso Usage Normal

BWK -R

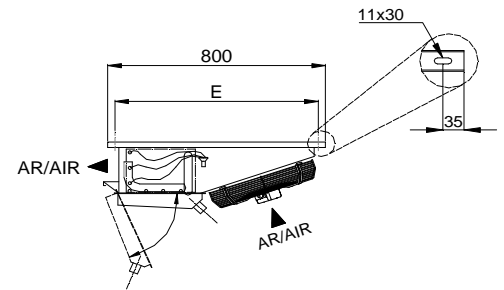
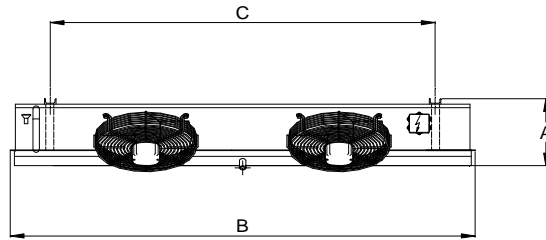
Evaporadores de Tecto Baixo Perfil Low Profile Ceiling Coolers
 Espaçamento Fin Spacing 6,3 mm
 Ø Ventiladores Ø Fans 300 mm



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume Interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current		Alimentação MPS
BWK 6A1/12 R	1.24		4.68	1.06	1	300	670	9	900	32	0.15	230/1/50	
BWK 6A1/14 R	1.43		5.85	1.33	1	300	630	9	900	32	0.15	230/1/50	
BWK 6A1/17 R	1.67		7.02	1.60	1	300	600	9	900	32	0.15	230/1/50	
BWK 6A1/18 R	1.80		8.19	1.86	1	300	570	9	900	32	0.15	230/1/50	
BWK 6A2/25 R	2.49		9.36	2.13	2	300	1340	9	900	64	0.30	230/1/50	
BWK 6A2/29 R	2.94		11.70	2.66	2	300	1260	9	900	64	0.30	230/1/50	
BWK 6A2/34 R	3.40		14.04	3.19	2	300	1190	9	900	64	0.30	230/1/50	
BWK 6A3/37 R	3.72		14.04	3.19	3	300	2010	9	900	96	0.45	230/1/50	
BWK 6A3/44 R	4.40		17.55	3.99	3	300	1900	9	900	96	0.45	230/1/50	
BWK 6A3/50 R	5.00		21.06	4.79	3	300	1790	9	900	96	0.45	230/1/50	

Modelo Type	Preço Price		Opções Options											
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapa inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock	Adaptador
	EUR		EUR											
BWK 6A1/12 R	S/P.	S/P.	S/P.	Standard	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	S/P.	Não disponível Not available	S/P.	
BWK 6A1/14 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.	
BWK 6A1/17 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.	
BWK 6A1/18 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.	
BWK 6A2/25 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.	
BWK 6A2/29 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.	
BWK 6A2/34 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.	
BWK 6A3/37 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.	
BWK 6A3/44 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.	
BWK 6A3/50 R	S/P.	S/P.	S/P.		S/P.	S/P.	S/P.	S/P.	S/P.		S/P.		S/P.	

Motores ESM (EC) disponíveis sob pedido
 ESM (EC) motors available under request



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	20	0.30	BWK 6A1/12 R
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	21	0.30	BWK 6A1/14 R
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	22	0.30	BWK 6A1/17 R
	1.20	5.22	230/1/50	1/2	5/8	3/4	240	990	675	730	23	0.30	BWK 6A1/18 R
	2.40	10.43	230/1/50	1/2	5/8	3/4	240	1640	1325	730	33	0.49	BWK 6A2/25 R
	2.40	10.43	230/1/50	1/2	7/8	3/4	240	1640	1325	730	35	0.49	BWK 6A2/29 R
	2.40	10.43	230/1/50	1/2	7/8	3/4	240	1640	1325	730	37	0.49	BWK 6A2/34 R
	3.60	15.65	230/1/50	1/2	7/8	3/4	240	2290	1975	730	46	0.68	BWK 6A3/37 R
	3.60	15.65	230/1/50	1/2	7/8	3/4	240	2290	1975	730	49	0.68	BWK 6A3/44 R
	3.60	15.65	230/1/50	1/2	1 1/8	3/4	240	2290	1975	730	52	0.68	BWK 6A3/50 R

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
TC [°C]		10	9	8	7	6	5	4
	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490

T_c = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

Tempo arrefecimento Cooling time 18h

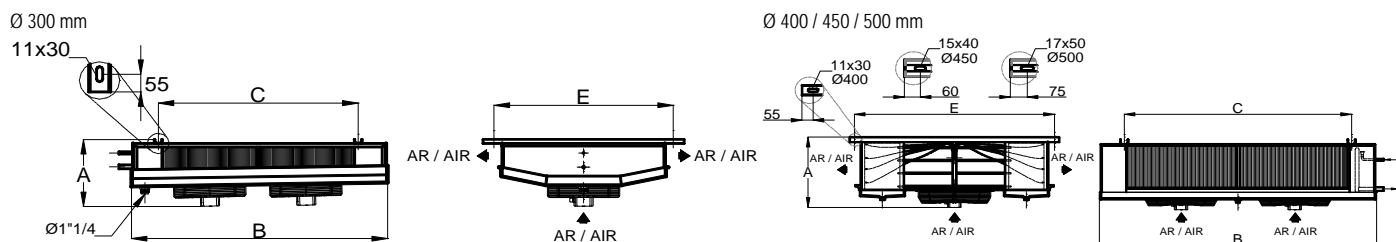
Tipo de uso Usage Normal



Modelo Type	Capacidade corrigida para (Tse=+12°C / TE=+1°C) Selection Capacity for (Tse=+12°C / TE=+1°C)	Capacidade (Tse=+10°C / TE=0°C) Capacity (Tse=+10°C / TE=0°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								Alimentação MPS	Ruído (1) Noise level	
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	V / F / Hz			
CBK 4B1/2 R	2.87	2.60	14.77	2.90	1	300	950	6	900	32	0.15	230/1/50	40		
CBK 4B2/4 R	4.68	4.25	17.77	3.40	2	300	2050	6	900	64	0.30	230/1/50	43		
CBK 4B2/6 R	6.32	5.73	29.53	5.80	2	300	1900	6	900	64	0.30	230/1/50	43		
CBK 3F1/7 R	7.22	6.55	29.79	4.70	1	400	2200	10	900	120	0.55	230/1/50	49		
CBK 4B3/9 R	9.51	8.63	44.30	8.60	3	300	2850	6	900	96	0.45	230/1/50	45		
CBK 4B4/12 R	12.92	11.72	59.06	11.50	4	300	3800	6	900	128	0.60	230/1/50	46		
CBK 3F2/13 R	14.02	12.72	59.57	9.40	2	400	4400	10	900	240	1.10	230/1/50	52		
CBK 3F3/19 R	21.47	19.48	89.36	14.10	3	400	6600	10	900	360	1.65	230/1/50	54		
CBK 3F4/25 R	27.08	24.57	119.15	18.70	4	400	8800	10	900	480	2.20	230/1/50	55		
CBK 4H3/32 R	35.37	32.10	190.98	38.70	3	450	10500	12	900	495	2.40	230/1/50	58		
CBK 4K3/39 R	42.98	39.00	238.73	48.40	3	500	12600	14	900	810	3.54	230/1/50	51		
CBK 4H4/42 R	46.61	42.30	254.64	51.60	4	450	14000	12	900	660	3.20	230/1/50	59		
CBK 4K4/56 R	62.15	56.40	318.30	64.50	4	500	16800	14	900	1080	4.72	230/1/50	52		
CBK 4K5/69 R	75.49	68.50	397.88	80.60	5	500	21000	14	900	1350	5.90	230/1/50	53		
CBK 4B1/3	3.32	3.01	14.77	2.90	1	300	1300	9	1300	73	0.32	230/1/50	49		
CBK 4B2/5	5.30	4.81	17.77	3.40	2	300	2700	9	1300	146	0.64	230/1/50	52		
CBK 4B2/7	7.71	7.00	29.53	5.80	2	300	2600	9	1300	146	0.64	230/1/50	52		
CBK 4B3/10	11.64	10.56	44.30	8.60	3	300	3900	9	1300	219	0.96	230/1/50	54		
CBK 4B4/14	15.54	14.10	59.06	11.50	4	300	5200	9	1300	292	1.28	230/1/50	55		

Modelo Type	Preço Price		Opções Options									
	Sem resistências Without heaters	com bat. aq. %HR With %HR control	Alheta revestida Coated fins	Lacado branco White painted	Chaparia Inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas deírost.	Desc. gás quente GE GE Hot gas deírost.	Desc. gás quente GT GT Hot gas deírost.	Desc. Água Water deírost	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter
CBK 4B1/2 R	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available						
CBK 4B2/4 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4B2/6 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 3F1/7 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4B3/9 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4B4/12 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 3F2/13 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 3F3/19 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 3F4/25 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4H3/32 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4K3/39 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4H4/42 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4K4/56 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4K5/69 R	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4B1/3	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available						
CBK 4B2/5	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4B2/7	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4B3/10	S/P.	S/P.	S/P.	S/P.	S/P.							
CBK 4B4/14	S/P.	S/P.	S/P.	S/P.	S/P.							

Motores ESM (EC) disponíveis sob pedido - somente em Ø300mm (Módulo B)
ESM (EC) motors available under request - only on Ø300mm (Module B)



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
							A	B	C	E			
	kW	A	V / F / Hz	in	in	in	mm				Kg	m³	
				1/2	3/4	1 1/4	354	813	525	920	31.0	0.45	CBK 4B1/2 R
				1/2	7/8	1 1/4	354	1313	1025	920	41.0	0.70	CBK 4B2/4 R
				1/2	1 1/8	1 1/4	354	1313	1025	920	48.0	0.70	CBK 4B2/6 R
				1/2	1 1/8	1 1/2	400	1100	675	1070	48.0	0.68	CBK 3F1/7 R
				5/8	1 1/8	1 1/4	363	1813	1525	920	67.0	0.96	CBK 4B3/9 R
				5/8	1 3/8	1 1/4	363	2313	2025	920	90.0	1.21	CBK 4B4/12 R
				5/8	1 3/8	1 1/2	400	1750	1325	1070	78.0	1.06	CBK 3F2/13 R
				5/8	1 3/8	1 1/2	400	2400	1975	1070	112.0	1.45	CBK 3F3/19 R
				7/8	1 3/8	1 1/2	400	3050	2625	1070	145.0	1.83	CBK 3F4/25 R
				7/8	1 5/8	2	480	2970	2545	1330	234.0	2.47	CBK 4H3/32 R
				7/8	2 1/8	2x1 1/2	590	2970	2545	1550	354.0	3.54	CBK 4K3/39 R
				1 1/8	2 1/8	2	480	3810	3385	1330	296.0	3.16	CBK 4H4/42 R
				2 x 1 1/8	2x2 1/8	2x1 1/2	590	3810	3385	1550	439.0	4.51	CBK 4K4/56 R
				2 x 1 1/8	2x2 1/8	2x1 1/2	590	4650	4225	1550	539.0	5.47	CBK 4K5/69 R
				1/2	3/4	1 1/4	354	813	525	920	32.5	0.45	CBK 4B1/3
				1/2	7/8	1 1/4	354	1313	1025	920	43.6	0.70	CBK 4B2/5
				1/2	1 1/8	1 1/4	354	1313	1025	920	51.5	0.70	CBK 4B2/7
				5/8	1 1/8	1 1/4	363	1813	1525	920	71.1	0.96	CBK 4B3/10
				5/8	1 3/8	1 1/4	363	2313	2025	920	94.6	1.21	CBK 4B4/14

		Factor de correcção "RC1" Correction Factor "RC1"												
		DT1 [°C]												
		16	15	14	13	12	11	10	9	8	7	6	5	4
Tse [°C]	16	1.762	1.652	1.469	1.322	1.220	1.119	1.018	0.916	0.805	0.703	0.604	0.499	0.402
	14	1.750	1.640	1.458	1.458	1.211	1.111	1.010	0.909	0.800	0.698	0.600	0.496	0.399
	12	1.737	1.628	1.447	1.447	1.203	1.102	1.003	0.902	0.794	0.694	0.595	0.493	0.397
	10	1.723	1.616	1.436	1.436	1.193	1.094	1.000	0.895	0.788	0.689	0.591	0.490	0.394
	8	1.713	1.606	1.427	1.427	1.186	1.087	0.979	0.881	0.782	0.684	0.587	0.487	0.391
	6	1.700	1.594	1.417	1.417	1.177	1.078	0.971	0.874	0.776	0.679	0.582	0.485	0.387
	4	1.685	1.580	1.405	1.405	1.167	1.070	0.963	0.867	0.771	0.674	0.578	0.482	0.385

Aplicações Applications

- Climas Klimas

Tse = Temperatura de câmara Room temperature

T_F = Temp. de evaporação Evaporation temperature

Dados de Cálculo **Selection Data**

Temperatura exterior Exterior temperature +32°C

Pé direito	Room height	3,2m
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Máquinas Machinery sem máquinas without machinery

Ocupação Occupation 1 pessoa/4m² 1 person/4m²

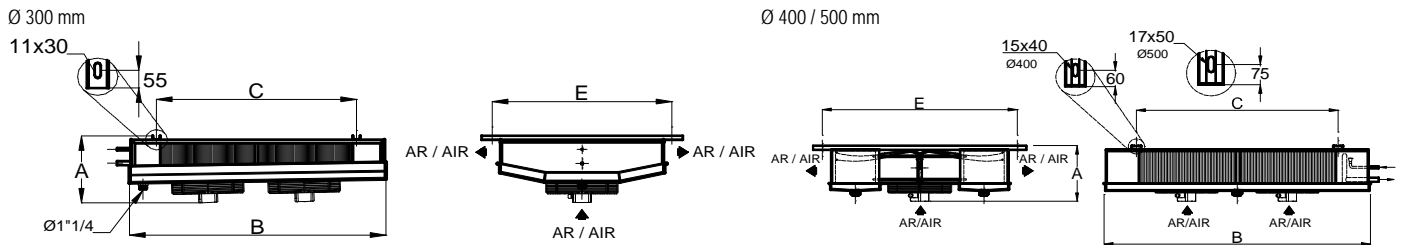
Iluminação	Lighting	25W/m ²	25W/m ²
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Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
	kW	kW	m ²	dm ³		mm	m ³ /h	m	rpm	W	A	V / F / Hz	
CBN 4B1/3	3.16		14.77	2.90	1	300	1300	9	1300	73	0.32	230/1/50	
CBN 4B2/5	5.05		17.77	3.40	2	300	2700	9	1300	146	0.64	230/1/50	
CBN 4B2/7	7.35		29.53	5.80	2	300	2600	9	1300	146	0.64	230/1/50	
CBN 4B3/11	11.09		44.30	8.60	3	300	3900	9	1300	219	0.96	230/1/50	
CBN 4B4/15	14.81		59.06	11.50	4	300	5200	9	1300	292	1.28	230/1/50	
CBN 4F2/17	16.81		73.89	15.00	2	400	5600	11	1300	340	1.06	400/3/50	
CBN 4F3/25	25.41		110.84	22.50	3	400	8400	11	1300	510	1.59	400/3/50	
CBN 4F4/34	34.03		147.78	29.90	4	400	11200	11	1300	680	2.12	400/3/50	
CBN 4K2/37	36.52		159.15	32.30	2	500	12400	15	1300	1420	2.80	400/3/50	
CBN 4K3/51	50.49		238.73	48.40	3	500	18600	15	1300	2130	4.20	400/3/50	
CBN 4K4/79	78.98		318.30	64.50	4	500	24800	15	1300	2840	5.60	400/3/50	
CBN 4K5/93	92.60		397.88	80.60	5	500	31000	15	1300	3550	7.00	400/3/50	

Modelo Type	Preço Price		Opções Options										
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated Ins	Lacado branco White painted	Chapaia Inox Stainless steel casing	Tab. esgoto Isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter
	EUR		EUR										
CBN 4B1/3	S/P.	S/P.	S/P.	S/P.	S/P.		Sob pedido Under request				S/P.	Não disponível Not available	
CBN 4B2/5	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4B2/7	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4B3/11	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4B4/15	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4F2/17	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4F3/25	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4F4/34	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4K2/37	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4K3/51	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4K4/79	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		
CBN 4K5/93	S/P.	S/P.	S/P.	S/P.	S/P.						S/P.		

Motores ESM (EC) disponíveis sob pedido - somente em Ø300mm (Módulo B)
 ESM (EC) motors available under request - only on Ø300mm (Module B)



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	1.08	4.69	230/1/50	1/2	3/4	1 1/4	354	813	525	920	32.5	0.45	CBN 4B1/3
	1.44	6.26	230/1/50	1/2	7/8	1 1/4	354	1313	1025	920	43.6	0.70	CBN 4B2/5
	2.16	9.36	230/1/50	1/2	1 1/8	1 1/4	354	1313	1025	920	51.5	0.70	CBN 4B2/7
	3.24	4.68	400/3/50	5/8	1 1/8	1 1/4	363	1813	1525	920	71.1	0.96	CBN 4B3/11
	4.32	6.23	400/3/50	5/8	1 3/8	1 1/4	363	2313	2025	920	94.6	1.21	CBN 4B4/15
	4.80	6.93	400/3/50	5/8	1 3/8	1 1/2	400	1750	1325	1280	108.2	1.27	CBN 4F2/17
	7.20	10.39	400/3/50	7/8	1 5/8	1 1/2	400	2400	1975	1280	153.5	1.73	CBN 4F3/25
	9.60	13.86	400/3/50	1 1/8	2 1/8	1 1/2	400	3050	2625	1280	200.8	2.19	CBN 4F4/34
	16.80	2x12,12	400/3/50	1 1/8	2 1/8	2x1 1/4	590	2130	1705	1550	231.5	2.51	CBN 4K2/37
	24.00	2x17,32	400/3/50	1 1/8	2 1/8	2x1 1/2	590	2970	2545	1550	354.5	3.54	CBN 4K3/51
	30.00	2x21,65	400/3/50	2x1 1/8	2x2 1/8	2x1 1/2	590	3810	3385	1550	438.0	4.51	CBN 4K4/79
	37.44	2x27,02	400/3/50	2x1 1/8	2x2 1/8	2x1 1/2	590	4650	4225	1550	539.0	5.47	CBN 4K5/93

Tabela selecção rápida Quick selection table			
Câmara refrigerados (TC = -1/0°C) Chilling room (TC = -1/0°C)			
m ³	kW	Modelo	Type
20 - 23	2.3	4B1/3	
40 - 46	3.7	4B2/5	
62 - 71	5.0	4B2/7	2x 4B1/3
120 - 140	7.7	4B3/11	2x 4B2/5
180 - 210	10.9	4B4/15	2x 4F2/17
300 - 345	16.5	4F3/25	2x 4B3/11
480 - 550	23.0	4F4/34	2x 4K2/37
700 - 805	33.0	4K3/51	2x 4F3/25
1260 - 1450	55.5	4K4/79	2x 4K3/51
1480 - 1700	64.3	4K5/93	2x 4K3/51

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.298	1.168	1.039	0.909	0.781	0.679	0.564
	+2	1.200	1.08	1.000	0.857	0.741	0.638	0.517
	0	1.140	1.026	0.912	0.797	0.682	0.585	0.470
	-2	1.111	1.001	0.909	0.794	0.680	0.582	0.466

T_C = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

Tempo arrefecimento Cooling time 18h

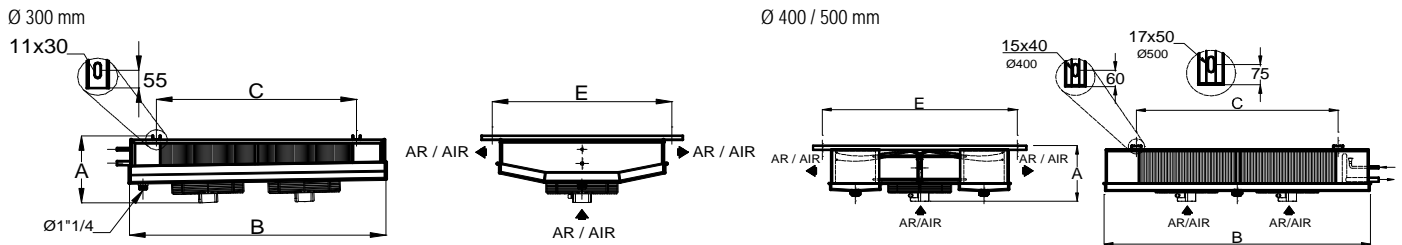
Tipo de uso Usage Normal



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
CBL 7B1/2	2.36	1.43	9.31	2.90	1	300	1400	10	1300	73	0.32	230/1/50
CBL 7B2/3	3.32	2.01	11.17	3.40	2	300	2900	10	1300	146	0.64	230/1/50
CBL 7B2/5	4.84	2.93	18.62	5.80	2	300	2800	10	1300	146	0.64	230/1/50
CBL 7B3/7	7.32	4.43	27.93	8.60	3	300	4200	10	1300	219	0.96	230/1/50
CBL 7B4/10	9.79	5.93	37.24	11.50	4	300	5600	10	1300	292	1.28	230/1/50
CBL 7F2/12	12.25	7.42	46.47	15.00	2	400	6000	12	1300	340	1.06	400/3/50
CBL 7F3/19	18.55	11.24	69.70	22.50	3	400	9000	12	1300	510	1.59	400/3/50
CBL 7F4/25	25.02	15.16	92.93	29.90	4	400	12000	12	1300	680	2.12	400/3/50
CBL 7K2/26	26.05	15.78	100.08	32.30	2	500	13000	16	1300	1420	2.80	400/3/50
CBL 7K3/36	35.90	21.75	150.13	48.40	3	500	19500	16	1300	2130	4.20	400/3/50
CBL 7K4/56	56.05	33.96	199.61	64.50	4	500	26000	16	1300	2840	5.60	400/3/50
CBL 7K5/66	66.04	40.01	249.51	80.60	5	500	32500	16	1300	3550	7.00	400/3/50

Modelo Type		Preço Price		Opções Options										
		Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated Ins	Lacado branco White painted	Chapaia Inox Stainless steel casing	Tab. esgoto Isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter
		EUR		EUR										
CBL	7B1/2	S/P.	S/P.	S/P.	S/P.	S/P.	Sob pedido Under request						S/P.	Nao disponivel Not available
CBL	7B2/3	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7B2/5	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7B3/7	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7B4/10	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7F2/12	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7F3/19	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7F4/25	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7K2/26	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7K3/36	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7K4/56	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	
CBL	7K5/66	S/P.	S/P.	S/P.	S/P.	S/P.							S/P.	

Motores ESM (EC) disponíveis sob pedido - somente em Ø300mm (Módulo B)
 ESM (EC) motors available under request - only on Ø300mm (Module B)



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m³	
	1.44	6.26	230/1/50	1/2	3/4	1 1/4	354	813	525	920	32.6	0.45	CBL 7B1/2
	2.16	9.39	230/1/50	1/2	3/4	1 1/4	354	1313	1025	920	43.7	0.70	CBL 7B2/3
	2.88	12.52	230/1/50	1/2	7/8	1 1/4	354	1313	1025	920	52.0	0.70	CBL 7B2/5
	3.24 / 1.08	4.68 / 4.7	400/3/50 / 230/1/50	1/2	1 1/8	1 1/4	363	1813	1525	920	72.0	0.96	CBL 7B3/7
	4.32 / 1.44	6.23 / 6.26	400/3/50 / 230/1/50	5/8	1 1/8	1 1/4	363	2313	2025	920	96.0	1.21	CBL 7B4/10
	4.80	6.93	400/3/50	5/8	1 3/8	1 1/2	400	1750	1325	1280	108.6	1.27	CBL 7F2/12
	7.20	10.39	400/3/50	7/8	1 5/8	1 1/2	400	2400	1975	1280	154.0	1.73	CBL 7F3/19
	9.60	13.86	400/3/50	7/8	1 5/8	1 1/2	400	3050	2625	1280	203.8	2.19	CBL 7F4/25
	16.80	2x12,12	400/3/50	7/8	1 5/8	1 1/4	590	2130	1705	1550	230.3	2.51	CBL 7K2/26
	24.00	2x17,32	400/3/50	1 1/8	2 1/8	2x1 1/2	590	2970	2545	1550	353.9	3.54	CBL 7K3/36
	30.00	2x21,65	400/3/50	2x7/8	2x1 5/8	2x1 1/2	590	3810	3385	1550	439.0	4.51	CBL 7K4/56
	37.44	2x27,02	400/3/50	2x1 1/8	2x2 1/8	2x1 1/2	590	4650	4225	1550	539.0	5.47	CBL 7K5/66

Tabela selecção rápida Quick selection table			
Câmara refrigerados (TC = -10°C) Chilling room (TC = -10°C)			
m³	kW	Modelo	Type
10 - 11	1.6	7B1/2	
24 - 27	2.3	7B2/3	
35 - 40	3.4	7B2/5	
62 - 71	4.9	7B3/7	
100 - 120	7.1	7B4/10	
135 - 150	8.6	7F2/12	
215 - 245	13.0	7F3/19	
320 - 365	16.5	7F4/25	
400 - 460	18.9	7K2/26	
550 - 630	27.1	7K3/36	
820 - 940	37.0	7K4/56	
1080 - 1240	49.2	7K5/66	

Tabela selecção rápida Quick selection table			
Câmara congelados (TC = -18/-20°C) Freezing room (TC = -18/-20°C)			
m³	kW	Modelo	Type
10 - 11	1.5	7B1/2	7B1/2
25 - 28	2.2	7B2/3	7B2/3
45 - 51	3.2	7B2/5	7B2/5
65 - 74	4.4	7B3/7	7B3/7
85 - 97	5.2	7B4/10	
120 - 135	7.0	7F2/12	
225 - 255	11.1	7F3/19	
290 - 330	14.1	7F4/25	7K2/26
550 - 660	20.0	7K3/36	
990 - 1135	31.1	7K4/56	
1200 - 1380	37.4	7K5/66	

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490
	-15	1.018	0.918	0.830	0.730	0.640	0.539	0.434
	-20	0.963	0.867	0.770	0.660	0.583	0.490	0.393
	-25	0.950	0.854	0.764	0.649	0.567	0.476	0.385

T_c = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

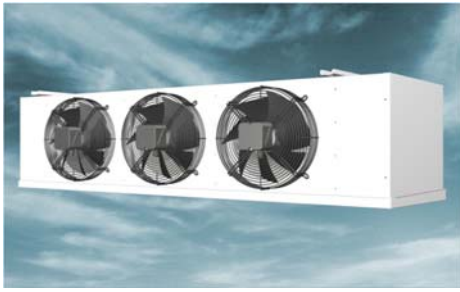
Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara) (of the chamber capacity)

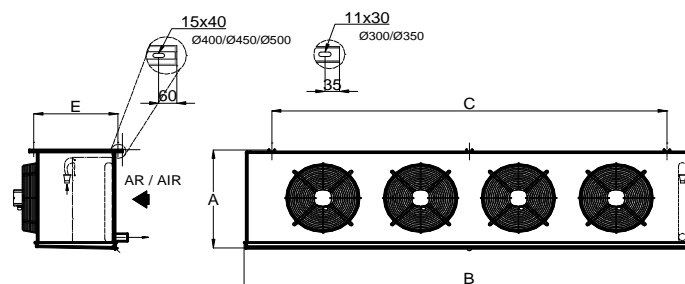
Tempo arrefecimento Cooling time 18h

Tipo de uso Usage Normal



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
MT 4C1/3	3.33		12.43	3.25	1	300	1300	11	1310	98	0.44	230/1/50	
MT 4E1/5	4.91		17.76	3.60	1	350	1800	14	1300	130	0.57	230/1/50	
MT 4C2/6	6.44		24.80	5.77	2	300	2600	11	1310	196	0.88	230/1/50	
MT 4C3/8	8.28		29.84	6.63	3	300	4050	11	1310	294	1.32	230/1/50	
MT 4E2/9	8.90		29.60	6.00	2	350	3800	14	1300	260	1.14	230/1/50	
MT 4E2/10	9.73		35.52	7.20	2	350	3600	14	1300	260	1.14	230/1/50	
MT 4C3/10	10.43		44.76	9.10	3	300	3750	11	1310	294	1.32	230/1/50	
MT 4E3/13	13.39		44.28	8.60	3	350	5700	14	1300	390	1.71	230/1/50	
MT 4E3/16	15.53		71.05	14.40	3	350	4950	14	1300	390	1.71	230/1/50	
MT 4E4/18	17.91		59.04	11.50	4	350	7600	14	1300	520	2.28	230/1/50	
MT 4E4/20	19.61		71.05	14.40	4	350	7200	14	1300	520	2.28	230/1/50	
MT 4G2/20	19.45		86.21	19.10	2	400	6000	16	1440	340	1.06	400/3/50	
MT 4G3/23	23.15		80.66	17.40	3	400	9750	16	1440	510	1.59	400/3/50	
MT 4J2/24	24.09		98.09	21.84	2	450	7900	18	1330	920	1.70	400/3/50	
MT 4G3/29	28.94		129.31	27.84	3	400	9000	16	1440	510	1.59	400/3/50	
MT 4L2/36	36.35		143.10	31.13	2	500	12000	20	1340	1340	2.40	400/3/50	
MT 4J4/49	48.87		196.83	41.80	4	450	15800	18	1330	1840	3.40	400/3/50	
MT 4L3/53	53.20		214.85	45.64	3	500	18000	20	1340	2010	3.60	400/3/50	
MT 4L4/68	67.92		250.66	52.64	4	500	25000	20	1340	2680	4.80	400/3/50	
MT 4L4/72	72.31		286.50	60.16	4	500	24000	20	1340	2680	4.80	400/3/50	

Modelo Type	Preço Price		Opções Options											
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chaparia Inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas deïrost.	Desc. gás quente GE GE Hot gas deïrost.	Desc. gás quente GT GT Hot gas deïrost.	Desc. Água Water deïrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter	
	EUR		EUR											
MT 4C1/3	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	S/P.	
MT 4E1/5	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4C2/6	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4C3/8	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4E2/9	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4E2/10	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4C3/10	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4E3/13	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4E3/16	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4E4/18	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4E4/20	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4G2/20	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4G3/23	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4J2/24	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4G3/29	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4L2/36	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4J4/49	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4L3/53	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4L4/68	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	
MT 4L4/72	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E			
	1.28	5.57	230/1/50	1/2	7/8	3/4 BSP	449	753	450	540	28.0	0.38	MT 4C1/3
	1.80	7.83	230/1/50	1/2	7/8	3/4 BSP	449	833	525	540	34.0	0.42	MT 4E1/5
	2.40	10.43	230/1/50	1/2	7/8	3/4 BSP	449	1173	870	540	43.0	0.56	MT 4C2/6
	4.80	20.87	230/1/50	1/2	1 1/8	3/4 BSP	449	1596	1290	540	55.0	0.77	MT 4C3/8
	3.60	15.65	230/1/50	1/2	1 1/8	3/4 BSP	449	1333	1025	540	53.0	0.65	MT 4E2/9
	4.32	18.78	230/1/50	1/2	1 1/8	3/4 BSP	449	1333	1025	540	57.0	0.65	MT 4E2/10
	4.80	20.87	230/1/50	1/2	1 1/8	3/4 BSP	449	1596	1290	540	69.0	0.77	MT 4C3/10
	6.48	9.35	400/3/50	5/8	1 3/8	3/4 BSP	449	1833	1525	540	74.0	0.88	MT 4E3/13
	6.48	9.35	400/3/50	5/8	1 3/8	3/4 BSP	449	1833	1525	540	89.0	0.88	MT 4E3/16
	8.64	12.47	400/3/50	5/8	1 3/8	3/4 BSP	449	2333	2025	540	98.0	1.10	MT 4E4/18
	8.64	12.47	400/3/50	7/8	1 5/8	3/4 BSP	449	2333	2025	540	106.0	1.10	MT 4E4/20
	7.20	10.39	400/3/50	7/8	1 5/8	3/4 BSP	615	1693	1330	625	110.0	1.15	MT 4G2/20
	10.80	15.59	400/3/50	7/8	1 5/8	1 1/4 BSP	615	2343	1980	625	125.0	1.57	MT 4G3/23
	10.80	15.59	400/3/50	7/8	1 5/8	3/4 BSP	690	1693	1330	625	123.0	1.27	MT 4J2/24
	10.80	15.59	400/3/50	7/8	1 5/8	1 1/4 BSP	615	2343	1980	625	154.0	1.57	MT 4G3/29
	12.60	18.19	400/3/50	7/8	1 5/8	3/4 BSP	765	2123	1710	690	175.0	1.82	MT 4L2/36
	18.00	25.98	400/3/50	1 1/8	2 1/8	1 1/4 BSP	690	2993	2630	625	227.0	2.19	MT 4J4/49
	18.00	25.98	400/3/50	1 1/8	2 1/8	1 1/4 BSP	765	2963	2550	690	253.0	2.52	MT 4L3/53
	30.00	2x21.65	400/3/50	2x1 1/8	2x2 1/8	1 1/4 BSP	765	3803	3390	690	333.0	3.22	MT 4L4/68
	30.00	2x21.65	400/3/50	2x1 1/8	2x2 1/8	1 1/4 BSP	765	3803	3390	690	354.0	3.22	MT 4L4/72

Tabela selecção rápida Quick selection table			
Câmara refrigerados (Tc = -1/0°C ; TE = -6/-7°C) Chilling room (Tc = -1/0°C ; TE = -6/-7°C)			
m³	kW	Modelo	Type
18 - 21	2.3	4C1/3	
40 - 46	3.7	4E1/5	
55 - 63	4.3	4C2/6	
62 - 71	5.0	4C3/8	
80 - 92	6.0	4E2/9	
95 - 110	6.6	4E2/10	
120 - 140	7.7	4C3/10	
136 - 170	9.3	4E3/13	
180 - 210	10.9	4E3/16	4E4/18
230 - 264	13.0	4E4/20	4G2/20
300 - 345	16.5	4G3/23	4J2/24
380 - 440	18.9	4G3/29	2x 4E3/13
480 - 550	23.0	4L2/36	2x 4E4/18
540 - 620	27.1	2x 4E4/20	2x 4E4/20
700 - 805	33.0	4J4/49	4L3/53
920 - 1060	42.9	4L4/68	2x 4G3/29
1100 - 1265	49.2	4L4/72	2x 4L2/36
1180 - 1355	55.5	2x 4L2/36	3x 4G3/29
1500 - 1725	64.3	2x 4J4/49	3x 4G3/29
1750 - 2010	73.8	2x 4L3/53	3x 4L2/36
2100 - 2415	87.3	2x 4L4/68	4x 4G3/29
2600 - 2990	98.4	2x 4L4/72	4x 4L2/36
3000 - 3450	110.9	3x 4L3/53	4x 4J4/49

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.298	1.168	1.039	0.909	0.781	0.679	0.564
	+2	1.200	1.08	1.000	0.857	0.741	0.638	0.517
	0	1.140	1.026	0.912	0.797	0.682	0.585	0.470
	-2	1.111	1.001	0.909	0.794	0.680	0.582	0.466

T_c = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

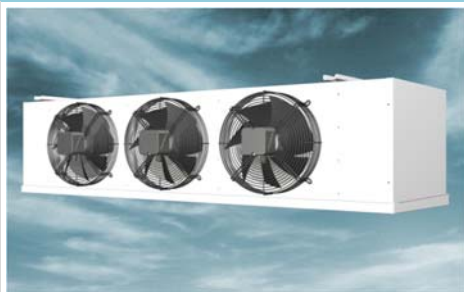
Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

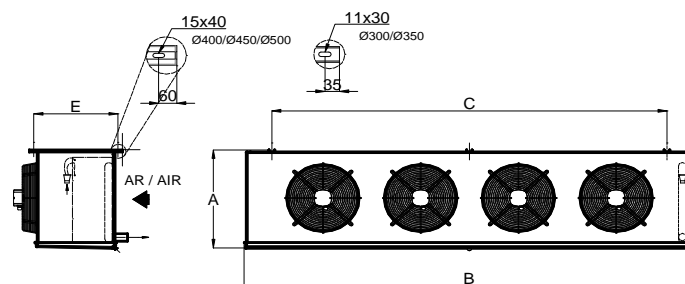
Tempo arrefecimento Cooling time 18h

Tipo de uso Usage Normal



	Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
		kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current		Alimentação MPS
DD	7C1/2	2.34	1.42	7.82	3.25	1	300	1350	12	1310	98	0.44	230/1/50	
DD	7C1/3	3.07	1.86	12.51	5.20	1	300	1250	12	1310	98	0.44	230/1/50	
DD	7E1/4	3.62	2.19	11.17	3.60	1	350	1940	16	1300	130	0.57	230/1/50	
DD	7C2/5	5.17	3.13	18.77	6.92	2	300	2600	12	1310	196	0.88	230/1/50	
DD	7C2/6	6.00	3.64	25.02	8.10	2	300	2500	12	1310	196	0.88	230/1/50	
DD	7E2/7	7.11	4.31	22.34	7.20	2	350	3880	16	1300	260	1.14	230/1/50	
DD	7E2/8	8.48	5.14	29.79	9.60	2	350	3500	16	1300	260	1.14	230/1/50	
DD	7C3/9	9.30	5.63	37.53	13.26	3	300	3750	12	1310	294	1.32	230/1/50	
DD	7E3/11	10.58	6.41	33.26	10.10	3	350	5820	16	1300	390	1.71	230/1/50	
DD	7E3/12	12.42	7.52	44.56	14.40	3	350	5250	16	1300	390	1.71	230/1/50	
DD	7E4/14	14.44	8.75	44.68	14.40	4	350	7760	16	1300	520	2.28	230/1/50	
DD	7G2/13	13.04	7.90	54.21	19.10	2	400	6000	18	1440	340	1.06	400/3/50	
DD	7G3/17	16.66	10.09	50.50	17.40	3	400	10200	18	1440	510	1.59	400/3/50	
DD	7J2/19	18.96	11.49	61.96	21.84	2	450	8200	20	1330	920	1.70	400/3/50	
DD	7G3/21	21.11	12.79	79.00	25.00	3	400	9000	18	1440	510	1.59	400/3/50	
DD	7J3/25	25.22	15.28	92.93	31.82	3	450	12300	20	1330	1380	2.55	400/3/50	
DD	7L2/26	26.30	15.93	90.08	31.13	2	500	12200	22	1340	1340	2.40	400/3/50	
DD	7L2/29	29.23	17.71	112.45	38.91	2	500	11600	22	1340	1340	2.40	400/3/50	
DD	7J4/34	33.66	20.39	123.70	41.80	4	450	16400	20	1330	1840	3.40	400/3/50	
DD	7L3/35	35.14	21.29	118.01	39.94	3	500	18900	22	1340	2010	3.60	400/3/50	
DD	7L3/38	37.85	22.93	134.90	45.64	3	500	18300	22	1340	2010	3.60	400/3/50	
DD	7L3/42	42.41	25.69	168.68	57.05	3	500	17400	22	1340	2010	3.60	400/3/50	
DD	7L4/53	53.17	32.21	179.87	60.16	4	500	24400	22	1340	2680	4.80	400/3/50	

Modelo Type		Preço Price		Opções Options										
		Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapa Inox Stainless steel casing	Tab. esgoto Isol. Insulated drain pan	Desc. gás quente GM GM Hot gas deïrost.	Desc. gás quente GE GE Hot gas deïrost.	Desc. gás quente GT GT Hot gas deïrost.	Desc. Água Water deïrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter
		EUR		EUR										
DD	7C1/2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7C1/3	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7E1/4	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7C2/5	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7C2/6	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7E2/7	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7E2/8	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7C3/9	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7E3/11	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7E3/12	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7E4/14	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7G2/13	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7G3/17	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7J2/19	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7G3/21	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7J3/25	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7L2/26	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7L2/29	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7J4/34	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7L3/35	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7L3/38	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7L3/42	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.
DD	7L4/53	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	1.28	5.57	230/1/50	1/2	7/8	3/4 BSP	449	753	450	540	28.0	0.38	DD 7C1/2
	1.60	6.96	230/1/50	1/2	7/8	3/4 BSP	449	753	450	540	33.0	0.38	DD 7C1/3
	1.80	7.83	230/1/50	1/2	7/8	3/4 BSP	449	833	525	540	35.0	0.42	DD 7E1/4
	2.40	10.43	230/1/50	1/2	7/8	3/4 BSP	449	1173	870	540	46.0	0.56	DD 7C2/5
	3.00	13.04	230/1/50	1/2	7/8	3/4 BSP	449	1173	870	540	53.0	0.56	DD 7C2/6
	4.32	18.78	230/1/50	1/2	1 1/8	3/4 BSP	449	1333	1025	540	57.0	0.65	DD 7E2/7
	4.32	18.78	230/1/50	1/2	1 1/8	3/4 BSP	449	1333	1025	540	64.0	0.65	DD 7E2/8
	7.20	10.39	400/3/50	1/2	1 1/8	3/4 BSP	449	1596	1290	540	74.0	0.77	DD 7C3/9
	6.48	9.35	400/3/50	1/2	1 1/8	3/4 BSP	449	1833	1525	540	79.0	0.88	DD 7E3/11
	6.48	9.35	400/3/50	5/8	1 3/8	3/4 BSP	449	1833	1525	540	90.0	0.88	DD 7E3/12
	8.64	12.47	400/3/50	5/8	1 3/8	3/4 BSP	449	2333	2025	540	106.0	1.10	DD 7E4/14
	7.20	10.39	400/3/50	5/8	1 3/8	3/4 BSP	615	1693	1330	625	109.0	1.15	DD 7G2/13
	10.80	15.59	400/3/50	5/8	1 3/8	1 1/4 BSP	615	2343	1980	625	125.0	1.57	DD 7G3/17
	10.80	15.59	400/3/50	5/8	1 3/8	3/4 BSP	690	1693	1330	625	125.0	1.27	DD 7J2/19
	10.80	15.59	400/3/50	7/8	1 5/8	1 1/4 BSP	615	2343	1980	625	141.0	1.57	DD 7G3/21
	16.20	23.38	400/3/50	7/8	1 5/8	1 1/4 BSP	690	2343	1980	625	175.0	2.05	DD 7J3/25
	12.60	18.19	400/3/50	7/8	1 5/8	3/4 BSP	765	2123	1710	690	173.0	1.82	DD 7L2/26
	16.80	24.24	400/3/50	7/8	1 5/8	3/4 BSP	765	2123	1710	690	198.0	1.82	DD 7L2/29
	18.00	25.98	400/3/50	7/8	1 5/8	1 1/4 BSP	690	2993	2630	625	228.0	2.19	DD 7J4/34
	18.00	25.98	400/3/50	1 1/8	2 1/8	1 1/4 BSP	765	2963	2550	690	239.0	2.52	DD 7L3/35
	18.00	25.98	400/3/50	1 1/8	2 1/8	1 1/4 BSP	765	2963	2550	690	248.0	2.52	DD 7L3/38
	24.00	2x17,32	400/3/50	2x7/8	2x1 5/8	1 1/4 BSP	765	2963	2550	690	288.0	2.52	DD 7L3/42
	30.00	2x21,65	400/3/50	2x7/8	2x1 5/8	1 1/4 BSP	765	3803	3390	690	354.0	3.22	DD 7L4/53

Tabela selecção rápida Quick selection table			
Câmara refrigerados (TC=0/+4°C - TE=-6/-7°C) Chilling room (RT=0/+4°C - TE=-6/-7°C)			
m ³	kW	Modelo	T _{TC}
9 - 10	1.5	7C1/2	
15 - 17	1.9	7C1/3	
24 - 27	2.3	7E1/4	
35 - 40	3.4	7C2/5	
45 - 51	3.7	7C2/5	
50 - 57	4.3	7C2/6	
62 - 71	4.9	7E2/7	
80 - 92	6.1	7E2/8	
90 - 100	6.6	7C3/9	
120 - 135	7.7	7E3/11	
145 - 165	9.4	7E3/12	
180 - 205	10.9	7E4/14	
240 - 275	13.0	7J2/19	
300 - 345	16.8	7G3/21	
340 - 390	17.5	7J3/25	
400 - 460	18.9	7L2/26	
450 - 515	23.0	7L2/29	
520 - 595	26.0	7L3/35	
620 - 710	27.1	7L3/38	
700 - 805	33.0	7L3/42	
820 - 940	37.0	7L4/53	
1015 - 1170	42.9	2x 7L2/29	
1080 - 1240	49.2	2x 7L3/35	
1260 - 1450	55.5	2x 7L3/38	
1480 - 1700	64.3	2x 7L3/42	
1680 - 1930	73.8	2x 7L4/53	
2000 - 2300	87.3	3x 7L3/38	

Tabela selecção rápida Quick selection table			
Câmara congelados (TC=-18/-20°C - TE=-25/-27°C) Freezing room (RT=-18/-20°C - TE=-25/-27°C)			
m ³	kW	Modelo	T _{TC}
9 - 10	1.2	7C1/2	
13 - 15	1.5	7C1/3	
20 - 23	2.2	7E1/4	
30 - 34	2.7	7C2/5	
45 - 51	3.2	7C2/6	
55 - 63	4.4	7E2/7	
80 - 92	5.2	7E2/8	
92 - 120	6.2	7E3/11	
120 - 135	7.0	7E3/12	
150 - 170	7.5	7G2/13	
180 - 210	9.2	7E4/14	
225 - 255	11.1	7J2/19	
290 - 330	14.1	7J3/25	
480 - 550	17.9	7L2/29	
550 - 660	20.0	7J4/34	
660 - 760	23.1	7L3/38	
800 - 920	26.8	7L3/42	
990 - 1135	31.1	7L4/53	
1200 - 1380	37.4	2x 7L2/29	
1360 - 1565	41.5	2x 7L3/35	
1680 - 1930	46.2	2x 7L3/38	
2000 - 2300	53.6	2x 7L3/42	
2300 - 2645	62.2	2x 7L4/53	
2800 - 3220	69.3	3x 7L3/38	
3150 - 3620	80.4	3x 7L3/42	
3800 - 4370	93.3	3x 7L4/53	

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490
	-15	1.018	0.918	0.830	0.730	0.640	0.539	0.434
	-20	0.963	0.867	0.770	0.660	0.583	0.490	0.393
	-25	0.950	0.854	0.764	0.649	0.567	0.476	0.385
		-34				0.561	0.471	0.381

T_C = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

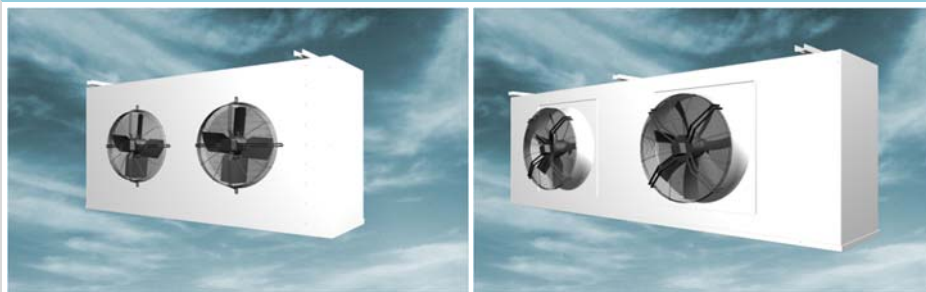
Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

Tempo arrefecimento Cooling time 18h

Tipo de uso Usage Normal



Modelo Type	Capacidade (Tse=+10°C / TE=0°C) Capacity (Tse=+10°C / TE=0°C)	Pressão Estática Disponível Available Static Pressure	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans									
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS		Ruído (1) Noise level
	kW	Pa	m ²	dm ³		mm	m ³ /h	m	rpm	W	A	V / F / Hz	dB(A)	
MTA 4M1/18	19.74		69.21	8.20	1	500	7100	20	1330	790	1.45	400/3/50	60	
MTA 4P1/26	28.31		101.75	12.10	1	560	9800	25	1220	1000	1.80	400/3/50	64	
MTA 4T1/50	54.95		193.80	23.00	1	800	20000	37	890	1800	3.80	400/3/50	60	
MTA 4T1/61	67.21		290.70	34.50	1	800	18900	37	890	1800	3.80	400/3/50	60	
MTA 4S3/84	92.39		348.84	41.40	3	710	34800	32	900	2820	5.25	400/3/50	63	
MTA 4T2/100	110.46		387.60	46.10	2	800	40000	37	890	3600	7.60	400/3/50	63	
MTA 4T2/122	134.93		581.40	69.10	2	800	37800	37	890	3600	7.60	400/3/50	63	
MTA 4T2/134	147.47		775.20	92.10	2	800	35800	37	890	3600	7.60	400/3/50	63	
MTA 4T3/170	187.70		872.10	103.60	3	800	56700	37	890	5400	11.40	400/3/50	65	
MTA 4T3/190	208.95		1162.80	138.20	3	800	53700	37	890	5400	11.40	400/3/50	65	

DADOS EM APLICAÇÃO DE CONDUTAS / DUCT APPLICATION (MTA .../AS)

MTA 4M1/18 AS	16.49	105	69.21	8.20	1	500	5400		1330	790	1.45	400/3/50	60
MTA 4P1/26 AS	22.89	110	101.75	12.10	1	560	7200		1220	1000	1.80	400/3/50	64
MTA 4T1/50 AS	45.22	105	193.80	23.00	1	800	14800		890	1800	3.80	400/3/50	60
MTA 4T1/61 AS	52.43	105	290.70	34.50	1	800	13500		890	1800	3.80	400/3/50	60
MTA 4S3/84 AS	69.77	105	348.84	41.40	3	710	21600		900	2820	5.25	400/3/50	63
MTA 4T2/100 AS	90.76	105	387.60	46.10	2	800	29600		890	3600	7.60	400/3/50	63
MTA 4T2/122 AS	105.13	105	581.40	69.10	2	800	27000		890	3600	7.60	400/3/50	63
MTA 4T2/134 AS	110.22	100	775.20	92.10	2	800	25000		890	3600	7.60	400/3/50	63
MTA 4T3/170 AS	149.99	105	872.10	103.60	3	800	40500		890	5400	11.40	400/3/50	65
MTA 4T3/190 AS	159.53	100	1162.80	138.20	3	800	37500		890	5400	11.40	400/3/50	65

Modelo Type	Preço Price		Opções Options									
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chaparia Inox Stainless steel casing	Tab. esgoto Isol. Insulated drain pan	Desc. gás quente GM GM Hot gas deïrost.	Desc. gás quente GE GE Hot gas deïrost.	Desc. gás quente GT GT Hot gas deïrost.	Desc. Água Water deïrost	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock Adapter
	EUR		EUR									
MTA 4M1/18	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	S/P.
MTA 4P1/26	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.
MTA 4T1/50	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.
MTA 4T1/61	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.
MTA 4S3/84	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.
MTA 4T2/100	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.
MTA 4T2/122	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.
MTA 4T2/134	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.
MTA 4T3/170	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.
MTA 4T3/190	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.

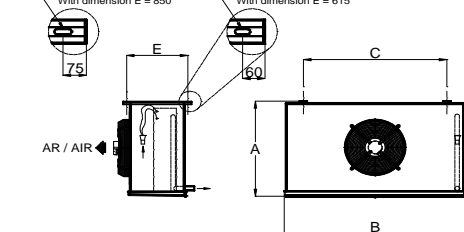
PREÇOS EM APLICAÇÃO DE CONDUTAS / DUCT APPLICATION (MTA .../AS)

MTA 4M1/18 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	Standard
MTA 4P1/26 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		
MTA 4T1/50 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		
MTA 4T1/61 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		
MTA 4S3/84 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		
MTA 4T2/100 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		
MTA 4T2/122 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		
MTA 4T2/134 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		
MTA 4T3/170 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		
MTA 4T3/190 AS	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		

MTA

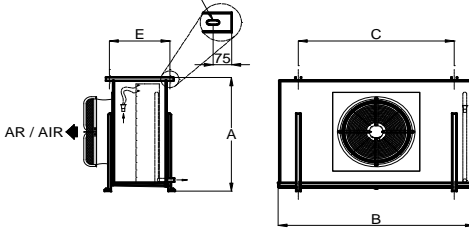
Ø500 / 560 mm

17x50 Com cota E = 850 With dimension E = 850



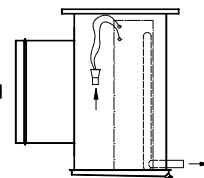
Ø710 / 800 mm

17x50



MTA .../AS

AR/AIR



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain	A	B	C	E			
	kW	A	V / F / Hz	in	in	in	mm				Kg	m ³	
	5.16	7.45	400/3/50	5/8	1 3/8	3/4 BSP	840	1450	1050	615	104.0	0.90	MTA 4M1/18
	7.20	10.39	400/3/50	5/8	1 5/8	3/4 BSP	960	1710	1310	615	136.0	1.19	MTA 4P1/26
	16.20	2x11,69	400/3/50	7/8	2 1/8	2 BSP	1365	2230	1730	735	297.0	3.60	MTA 4T1/50
	20.25	2x14,62	400/3/50	7/8	2 1/8	2 BSP	1365	2230	1730	940	342.0	3.60	MTA 4T1/61
	26.10	25,11+12,5	400/3/50	1 1/8	2 1/8	2 BSP	1365	4330	3830	670	483.0	5.46	MTA 4S3/84
	30.36	2x21,91	400/3/50	1 1/8	2 5/8	2 BSP	1365	3910	3410	735	541.0	6.24	MTA 4T2/100
	37.95	2x21,91+10,96	400/3/50	2x7/8	2x2 1/8	2 BSP	1365	3910	3410	940	634.0	6.24	MTA 4T2/122
	45.54	3x21,91	400/3/50	2x1 1/8	2x2 1/8	2 BSP	1365	3910	3410	940	721.0	6.24	MTA 4T2/134
	58.50	5x16,89	400/3/50	2x1 1/8	2x2 5/8	2 BSP	1365	5590	5090	940	911.0	8.89	MTA 4T3/170
	70.20	6x16,89	400/3/50	2x1 1/8	2x2 5/8	2 BSP	1365	5590	5090	940	1040.0	8.89	MTA 4T3/190

DADOS EM APLICAÇÃO DE CONDUTAS / DUCT APPLICATION (MTA .../AS)

	5.16	7.45	400/3/50	5/8	1 3/8	3/4 BSP	840	1450	1050	615	104.0	0.90	MTA 4M1/18 AS
	7.20	10.39	400/3/50	5/8	1 5/8	3/4 BSP	960	1710	1310	615	136.0	1.19	MTA 4P1/26 AS
	16.20	2x11,69	400/3/50	7/8	2 1/8	2 BSP	1365	2230	1730	735	297.0	3.60	MTA 4T1/50 AS
	20.25	2x14,62	400/3/50	7/8	2 1/8	2 BSP	1365	2230	1730	940	342.0	3.60	MTA 4T1/61 AS
	26.10	25,11+12,5	400/3/50	1 1/8	2 1/8	2 BSP	1365	4330	3830	670	483.0	5.46	MTA 4S3/84 AS
	30.36	2x21,91	400/3/50	1 1/8	2 5/8	2 BSP	1365	3910	3410	735	541.0	6.24	MTA 4T2/100 AS
	37.95	2x21,91+10,96	400/3/50	2x7/8	2x2 1/8	2 BSP	1365	3910	3410	940	634.0	6.24	MTA 4T2/122 AS
	45.54	3x21,91	400/3/50	2x1 1/8	2x2 1/8	2 BSP	1365	3910	3410	940	721.0	6.24	MTA 4T2/134 AS
	58.50	5x16,89	400/3/50	2x1 1/8	2x2 5/8	2 BSP	1365	5590	5090	940	911.0	8.89	MTA 4T3/170 AS
	70.20	6x16,89	400/3/50	2x1 1/8	2x2 5/8	2 BSP	1365	5590	5090	940	1040.0	8.89	MTA 4T3/190 AS

Factor de correcção "RC1"

Correction Factor "RC1"

		DT1 [°C]												
		16	15	14	13	12	11	10	9	8	7	6	5	4
Tse [°C]	16	1.762	1.652	1.469	1.322	1.220	1.119	1.018	0.916	0.805	0.703	0.604	0.499	0.402
	14	1.750	1.640	1.458	1.458	1.211	1.111	1.010	0.909	0.800	0.698	0.600	0.496	0.399
	12	1.737	1.628	1.447	1.447	1.203	1.102	1.003	0.902	0.794	0.694	0.595	0.493	0.397
	10	1.723	1.616	1.436	1.436	1.193	1.094	1.000	0.895	0.788	0.689	0.591	0.490	0.394
	8	1.713	1.606	1.427	1.427	1.186	1.087	0.979	0.881	0.782	0.684	0.587	0.487	0.391
	6	1.700	1.594	1.417	1.417	1.177	1.078	0.971	0.874	0.776	0.679	0.582	0.485	0.387
	4	1.685	1.580	1.405	1.405	1.167	1.070	0.963	0.867	0.771	0.674	0.578	0.482	0.385

Aplicações Applications

- Climas Klimas
- Com ou sem conduta têxtil With or without Air Socks

Tse = Temperatura de câmara Room temperature

T_E = Temp. de evaporação Evaporation temperature

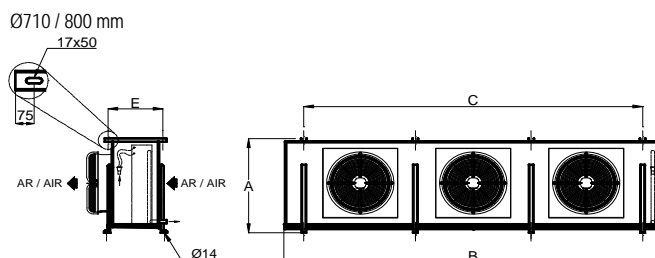
Dados de Cálculo Selection Data

Temperatura exterior	Exterior temperature	+32°C
Pé direito	Room height	3,2m
Máquinas	Machinery	sem máquinas without machinery
Ocupação	Occupation	1 pessoa/4m ² 1 person/4m ²
Iluminação	Lighting	25W/m ² 25W/m ²



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	d ^m 3	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
MTB 6M1/14	14.11		46.93	8.20	1	500	7200	21	1330	790	1.45	400/3/50
MTB 6P1/21	20.47		68.99	12.10	1	560	10000	26	1220	1000	1.80	400/3/50
MTB 6P1/25	24.57		103.48	18.10	1	560	9600	26	1220	1000	1.80	400/3/50
MTB 6M2/28	28.44		93.86	16.40	2	500	14400	21	1330	1580	2.90	400/3/50
MTB 6M2/34	34.07		140.79	24.70	2	500	13800	21	1330	1580	2.90	400/3/50
MTB 6P2/41	41.10		137.98	24.20	2	560	20000	26	1220	2000	3.60	400/3/50
MTB 6M3/43	42.79		140.79	24.70	3	500	21600	21	1330	2370	4.35	400/3/50
MTB 6P2/50	49.65		206.96	36.30	2	560	19200	26	1220	2000	3.60	400/3/50
MTB 6P3/59	58.47		206.96	36.30	3	560	30000	26	1220	3000	5.40	400/3/50
MTB 6M4/69	68.66		281.58	49.30	4	500	27600	21	1330	3160	5.80	400/3/50
MTB 6P3/75	74.72		310.45	54.40	3	560	28800	26	1220	3000	5.40	400/3/50
MTB 6T2/79	79.07		262.81	46.10	2	800	41600	38	890	3600	7.60	400/3/50
MTB 6S3/86	86.43		354.80	62.20	3	710	33600	33	900	2820	5.25	400/3/50
MTB 6T2/100	99.63		394.22	69.10	2	800	38600	38	890	3600	7.60	400/3/50
MTB 6T2/114	114.09		525.62	92.10	2	800	37000	38	890	3600	7.60	400/3/50
MTB 6T3/132	132.31		591.33	103.60	3	800	57900	38	890	5400	11.40	400/3/50
MTB 6T3/151	151.45		788.43	138.20	3	800	55500	38	890	5400	11.40	400/3/50

Modelo Type	Preço Price		Opções Options										
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapa inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM Hot gas deïrost.	Desc. gás quente GE Hot gas deïrost.	Desc. gás quente GT Hot gas deïrost.	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter
MTB 6M1/14	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Sob pedido Under request	Sob pedido Under request	S/P.
MTB 6P1/21	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6P1/25	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6M2/28	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6M2/34	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6P2/41	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6M3/43	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6P2/50	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6P3/59	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6M4/69	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6P3/75	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6T2/79	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6S3/86	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6T2/100	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6T2/114	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6T3/132	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.
MTB 6T3/151	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			S/P.



		Factor de correcção "RCm" Correction Factor "RCm"						
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+8	1.460	1.325	1.165	1.045	0.899	0.795	0.681
	+7	1.399	1.266	1.119	0.993	0.854	0.752	0.637
	+5	1.298	1.168	1.039	0.909	0.781	0.679	0.564
	+2	1.200	1.08	1.000	0.857	0.741	0.638	0.517
	0	1.140	1.026	0.912	0.797	0.682	0.585	0.470
	-2	1.111	1.001	0.909	0.794	0.680	0.582	0.466

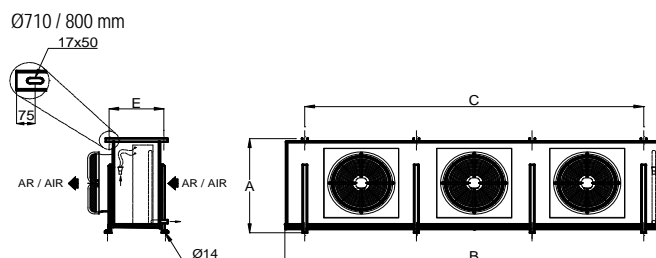
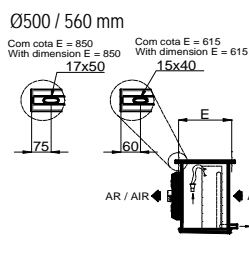
Tipo de uso	Usage	Normal
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Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	d ³ m	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
DDC 8M1/11	11.33	6.86	37.90	8.20	1	500	7200	22	1330	790	1.45	400/3/50
DDC 8P1/17	17.22	10.43	55.72	12.10	1	560	10200	27	1220	1000	1.80	400/3/50
DDC 8P1/19	19.20	11.63	83.58	18.10	1	560	9600	27	1220	1000	1.80	400/3/50
DDC 8P1/22	22.09	13.38	111.44	24.20	1	560	9200	27	1220	1000	1.80	400/3/50
DDC 8S1/24	23.83	14.44	95.15	19.40	1	710	11300	34	900	940	1.75	400/3/50
DDC 8M2/30	30.25	18.33	113.71	24.70	2	500	13800	22	1330	1580	2.90	400/3/50
DDC 8P2/35	34.79	21.08	111.44	24.20	2	560	20400	27	1220	2000	3.60	400/3/50
DDC 8P2/39	39.25	23.78	167.16	36.30	2	560	19200	27	1220	2000	3.60	400/3/50
DDC 8S2/40	40.24	24.38	127.36	27.60	2	710	23800	34	900	1880	3.50	400/3/50
DDC 8M3/46	45.67	27.67	170.57	37.00	3	500	20700	22	1330	2370	4.35	400/3/50
DDC 8T1/46	46.19	27.98	212.26	46.10	1	800	18700	39	890	1800	3.80	400/3/50
DDC 8P3/59	59.33	35.95	250.74	54.40	3	560	28800	27	1220	3000	5.40	400/3/50
DDC 8T2/61	61.07	37.00	212.26	46.10	2	800	42000	39	890	3600	7.60	400/3/50
DDC 8P3/69	69.10	41.86	334.32	72.50	3	560	27600	27	1220	3000	5.40	400/3/50
DDC 8T2/80	79.69	48.28	318.40	69.10	2	800	39200	39	890	3600	7.60	400/3/50
DDC 8S3/80	79.76	48.32	382.07	82.90	3	710	32100	34	900	2820	5.25	400/3/50
DDC 8T2/94	93.53	56.67	424.53	92.10	2	800	37400	39	890	3600	7.60	400/3/50

Modelo Type	Preço Price		Opções Options										
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapa inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM Hot gas deïrost.	Desc. gás quente GE Hot gas deïrost.	Desc. gás quente GT Hot gas deïrost.	Desc. Água Water deïrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter
	EUR		EUR										
DDC 8M1/11	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Sob pedido Under request	S/P.	S/P.
DDC 8P1/17	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8P1/19	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8P1/22	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8S1/24	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8M2/30	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8P2/35	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8P2/39	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8S2/40	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8M3/46	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8T1/46	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8P3/59	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8T2/61	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8P3/69	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8T2/80	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8S3/80	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDC 8T2/94	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E			
	5.16	7.45	400/3/50	5/8	1 3/8	3/4 BSP	840	1450	1050	615	108.0	0.90	DDC 8M1/11
	7.20	10.39	400/3/50	5/8	1 5/8	3/4 BSP	960	1710	1310	615	142.0	1.19	DDC 8P1/17
	9.60	6.93	400/3/50	7/8	1 5/8	3/4 BSP	960	1710	1310	850	184.0	1.62	DDC 8P1/19
	12.00	17.32	400/3/50	7/8	1 5/8	3/4 BSP	960	1710	1310	850	212.0	1.62	DDC 8P1/22
	11.40	16.45	400/3/50	7/8	1 5/8	2 BSP	1125	1710	1310	875	232.0	2.19	DDC 8S1/24
	14.40	20.78	400/3/50	7/8	2 1/8	1 1/4 BSP	840	2450	2050	850	231.0	2.05	DDC 8M2/30
	14.40	20.78	400/3/50	7/8	2 1/8	1 1/4 BSP	960	2970	2570	615	252.0	2.04	DDC 8P2/35
	19.20	2x13,85	400/3/50	7/8	2 1/8	1 1/4 BSP	960	2970	2570	850	327.0	2.78	DDC 8P2/39
	14.40	20.78	400/3/50	7/8	2 1/8	2 BSP	1125	2970	2570	670	352.0	3.77	DDC 8S2/40
	19.80	28.58	400/3/50	7/8	2 1/8	1 1/4 BSP	840	3450	3050	850	332.0	2.87	DDC 8M3/46
	24.30	2x17,54	400/3/50	7/8	2 1/8	2 BSP	1365	2230	1730	940	419.0	3.60	DDC 8T1/46
	28.80	2x20,79	400/3/50	1 1/8	2 5/8	2 BSP	960	4280	3830	850	477.0	3.98	DDC 8P3/59
	30.36	2x21,91	400/3/50	1 1/8	2 5/8	2 BSP	1365	3910	3410	735	566.0	6.24	DDC 8T2/61
	36.00	2x20,78+10,39	400/3/50	2x7/8	2x2 1/8	2 BSP	960	4280	3830	850	561.0	3.98	DDC 8P3/69
	37.95	2x21,91+10,96	400/3/50	2x7/8	2x2 1/8	2 BSP	1365	3910	3410	940	671.0	6.24	DDC 8T2/80
	43.50	2x25,11+12,56	400/3/50	2x7/8	2x2 1/8	2 BSP	1125	4330	3830	875	694.0	5.46	DDC 8S3/80
	45.54	3x21,91	400/3/50	2x1 1/8	2x2 1/8	2 BSP	1365	3910	3410	940	770.0	6.24	DDC 8T2/94

Tabela selecção rápida Quick selection table			
Câmara refrigerados (TC=-10°C - TE=-6/-7°C) Chilling room (RT=-10°C - TE=-6/-7°C)			
m³	kW	Modelo	Tipo
120 - 135	8.0	8M1/11	
225 - 255	13.0	8P1/17	
320 - 365	16.5	8P1/22	
400 - 460	23.0	8M2/30	
460 - 510	25.0	8P2/35	
510 - 585	27.1	8P2/39	
680 - 780	33.0	8M3/46	
970 - 1115	42.9	8P3/59	
1080 - 1240	49.2	8P3/69	
1300 - 1495	55.5	8T2/80	
1420 - 1630	64.3	8T2/94	
2200 - 2530	87.3	2x 8P3/59	
2600 - 2990	98.4	2x 8T2/61	
3500 - 4025	128.7	2x 8S3/80	

Tabela selecção rápida Quick selection table			
Câmara congelados (TC=-18/-20°C - TE=-25/-27°C) Freezing room (RT=-18/-20°C - TE=-25/-27°C)			
m³	kW	Modelo	Tipo
120 - 135	7.0	8M1/11	
195 - 220	9.2	8P1/17	
260 - 300	11.1	8P1/19	
300 - 410	13.0	8P1/22	
410 - 470	15.4	8S1/24	
470 - 540	17.5	8M2/30	
540 - 620	20.7	8P2/35	
700 - 800	23.1	8P2/39	
800 - 980	27.0	8M3/46	
980 - 1125	31.1	8P3/59	
1200 - 1380	37.4	8P3/59	
1400 - 1610	41.5	8P3/69	
1600 - 1840	44.8	8T2/80	
1840 - 2300	55.0	8T2/94	
2300 - 2645	64.0	2x 8P3/59	
2900 - 3335	74.8	2x 8T2/61	

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490
	-15	1.018	0.918	0.830	0.730	0.640	0.539	0.434
	-20	0.963	0.867	0.770	0.660	0.583	0.490	0.393
	-25	0.950	0.854	0.764	0.649	0.567	0.476	0.385
	-34					0.561	0.471	0.381

T_c = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

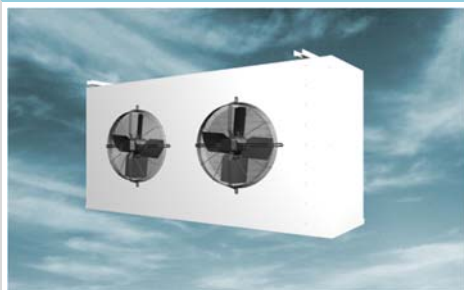
Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

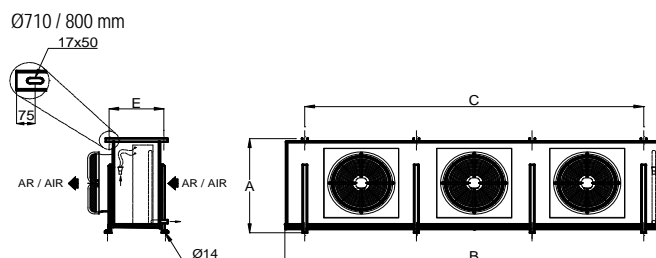
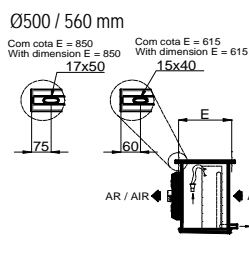
Tempo arrefecimento Cooling time 18h

Tipo de uso Usage Normal



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	d ^m ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
DDL 10M1/10	9.57	6.03	30.44	8.20	1	500	7400	23	1330	790	1.45	400/3/50
DDL 10P1/14	14.21	8.95	44.75	12.10	1	560	10400	28	1220	1000	1.80	400/3/50
DDL 10P1/17	16.83	10.60	67.12	18.10	1	560	9700	28	1220	1000	1.80	400/3/50
DDL 10M2/19	19.43	12.24	60.88	16.40	2	500	14800	23	1330	1580	2.90	400/3/50
DDL 10S1/21	20.57	12.96	76.34	19.40	1	710	11500	35	900	940	1.75	400/3/50
DDL 10M2/26	25.74	16.22	91.32	24.70	2	500	14000	23	1330	1580	2.90	400/3/50
DDL 10P2/29	28.63	18.04	89.50	24.20	2	560	20800	28	1220	2000	3.60	400/3/50
DDL 10M2/30	30.37	19.14	121.76	32.90	2	500	13400	23	1330	1580	2.90	400/3/50
DDL 10P2/34	34.25	21.58	134.24	36.30	2	560	19400	28	1220	2000	3.60	400/3/50
DDL 10M3/39	38.79	24.44	136.98	37.00	3	500	21000	23	1330	2370	4.35	400/3/50
DDL 10S2/40	39.95	25.17	153.42	41.40	2	710	23000	35	900	1880	3.50	400/3/50
DDL 10P2/41	40.45	25.49	178.49	46.60	2	560	18800	28	1220	2000	3.60	400/3/50
DDL 10M3/46	45.79	28.85	182.64	49.30	3	500	20100	23	1330	2370	4.35	400/3/50
DDL 10P3/52	51.68	32.56	201.36	54.40	3	560	29100	28	1220	3000	5.40	400/3/50
DDL 10T2/54	53.58	33.76	170.47	46.10	2	800	42000	40	890	3600	7.60	400/3/50
DDL 10P3/62	61.71	38.88	268.49	72.50	3	560	28200	28	1220	3000	5.40	400/3/50
DDL 10T2/71	71.13	44.82	255.70	69.10	2	800	39800	40	890	3600	7.60	400/3/50
DDL 10S3/72	71.51	45.06	306.84	82.90	3	710	33000	35	900	2820	5.25	400/3/50
DDL 10T2/85	84.61	53.31	340.93	92.10	2	800	38200	40	890	3600	7.60	400/3/50

Modelo Type	Preço Price		Opções Options										
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapa Inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter
	EUR		EUR										
DDL 10M1/10	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Sob pedido Under request	S/P.	S/P.
DDL 10P1/14	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10P1/17	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10M2/19	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10S1/21	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10M2/26	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10P2/29	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10M2/30	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10P2/34	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10M3/39	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10S2/40	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10P2/41	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10M3/46	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10P3/52	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10T2/54	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10P3/62	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10T2/71	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10S3/72	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.
DDL 10T2/85	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m³	
	5.16	7.45	400/3/50	5/8	1 3/8	3/4 BSP	840	1450	1050	615	103.0	0.90	DDL 10M1/10
	7.20	10.39	400/3/50	5/8	1 5/8	3/4 BSP	960	1710	1310	615	136.0	1.19	DDL 10P1/14
	9.60	2x6.93	400/3/50	7/8	1 5/8	3/4 BSP	960	1710	1310	850	174.0	1.62	DDL 10P1/17
	9.60	13.86	400/3/50	7/8	1 5/8	1 1/4 BSP	840	2450	2050	615	167.0	1.51	DDL 10M2/19
	11.40	16.45	400/3/50	7/8	1 5/8	2 BSP	1125	1710	1310	875	220.0	2.19	DDL 10S1/21
	14.40	20.78	400/3/50	7/8	2 1/8	1 1/4 BSP	840	2450	2050	850	217.0	2.05	DDL 10M2/26
	14.40	20.78	400/3/50	7/8	2 1/8	1 1/4 BSP	960	2970	2570	615	239.0	2.04	DDL 10P2/29
	19.20	2x13.85	400/3/50	7/8	2 1/8	1 1/4 BSP	840	2450	2050	850	250.0	2.05	DDL 10M2/30
	19.20	2x13.85	400/3/50	7/8	2 1/8	1 1/4 BSP	960	2970	2570	850	307.0	2.78	DDL 10P2/34
	19.80	28.58	400/3/50	7/8	2 1/8	1 1/4 BSP	840	3450	3050	850	312.0	2.87	DDL 10M3/39
	19.20	2x13.85	400/3/50	1 1/8	2 1/8	2 BSP	1125	2970	2570	875	389.0	3.77	DDL 10S2/40
	24.00	20.78+13.86	400/3/50	1 1/8	2 1/8	1 1/4 BSP	960	2970	2570	850	380.0	2.78	DDL 10P2/41
	26.40	2x19.05	400/3/50	1 1/8	2 1/8	1 1/4 BSP	840	3450	3050	850	365.0	2.87	DDL 10M3/46
	28.80	2x20.79	400/3/50	1 1/8	2 5/8	2 BSP	960	4280	3830	850	446.0	3.98	DDL 10P3/52
	30.36	2x21.91	400/3/50	1 1/8	2 5/8	2 BSP	1365	3910	3410	735	540.0	6.24	DDL 10T2/54
	36.00	2x20.79+10.38	400/3/50	2x7/8	2x2 1/8	2 BSP	960	4280	3830	850	545.0	3.98	DDL 10P3/62
	37.95	2x21.91+10.96	400/3/50	2x7/8	2x2 1/8	2 BSP	1365	3910	3410	940	632.0	6.24	DDL 10T2/71
	43.50	2x25.11+12.56	400/3/50	2x7/8	2x2 1/8	2 BSP	1125	4330	3830	875	647.0	5.46	DDL 10S3/72
	45.54	3x21.91	400/3/50	2x1 1/8	2x2 1/8	2 BSP	1365	3910	3410	940	719.0	6.24	DDL 10T2/85

Tabela selecção rápida Quick selection table			
Câmara congelados (TC = -18/-20°C ; TE = -25/-27°C) Freezing room (TC = -18/-20°C ; TE = -25/-27°C)			
m³	kW	Modelo	Type
100-115	5.7	10M1/10	
130-149	7.2	10P1/15	
170-195	8.8	10P1/15	10P1/18
240-275	11.3	10M2/20	10S1/21
320-365	14.2	10M2/27	
420-480	16.5	10P2/30	10P2/32
580-665	21.2	10P2/36	10M3/40
670-820	24.0	10S2/42	10P2/42
820-940	28.4	10M3/48	2x 10M2/27
950-1090	30.1	10M3/54	10T2/56
1000-1150	33.1	10T2/56	2x 10P2/30
1150-1500	37.0	10P3/64	2x 10M2/32
1500-1725	42.4	10T2/74	10S3/74
1700-1955	49.2	10T2/88	2x 10P2/42
2100-2415	54.8	2x 10M3/48	2x 10M3/48
2350-2700	60.1	2x 10P3/54	2x 10P3/54
3400-3910	84.8	2x 10T2/74	2x 10T2/74
4000-4600	90.2	3x 10P3/54	3x 10T2/56

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	-15	1.059	0.955	0.863	0.759	0.666	0.561	0.451
	-20	1.002	0.902	0.801	0.686	0.606	0.510	0.409
	-25	0.988	0.888	0.795	0.675	0.590	0.495	0.400
	-34					0.584	0.490	0.396

T_c = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

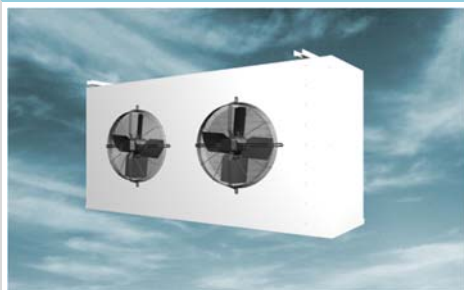
Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

Tempo arrefecimento Cooling time 18h

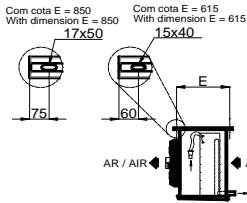
Tipo de uso Usage Normal



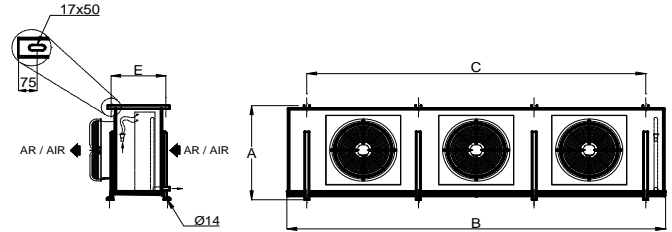
Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
DXL 12M1/8	8.44	5.32	25.76	8.20	1	500	7400	24	1330	790	1.45	400/3/50
DXL 12P1/12	12.42	7.83	37.87	12.10	1	560	10500	30	1220	1000	1.80	400/3/50
DXL 12M2/17	17.11	10.78	51.52	16.40	2	500	14800	24	1330	1580	2.90	400/3/50
DXL 12P1/18	18.40	11.59	75.49	23.30	1	560	9500	30	1220	1000	1.80	400/3/50
DXL 12M2/23	23.03	14.51	77.28	24.70	2	500	14200	24	1330	1580	2.90	400/3/50
DXL 12P2/25	24.98	15.74	75.74	24.20	2	560	21000	30	1220	2000	3.60	400/3/50
DXL 12M2/28	27.63	17.41	103.04	32.90	2	500	13600	24	1330	1580	2.90	400/3/50
DXL 12P2/31	31.21	19.67	113.61	36.30	2	560	19600	30	1220	2000	3.60	400/3/50
DXL 12M3/35	34.66	21.84	115.92	37.00	3	500	21300	24	1330	2370	4.35	400/3/50
DXL 12P2/37	37.34	23.53	150.98	46.60	2	560	19000	30	1220	2000	3.60	400/3/50
DXL 12P3/47	47.03	29.63	170.41	54.40	3	560	29400	30	1220	3000	5.40	400/3/50
DXL 12T2/48	47.77	30.10	144.26	46.10	2	800	42400	42	890	3600	7.60	400/3/50
DXL 12P3/57	56.83	35.81	227.21	72.50	3	560	28500	30	1220	3000	5.40	400/3/50
DXL 12T2/64	64.39	40.57	216.39	69.10	2	800	40400	42	890	3600	7.60	400/3/50
DXL 12S3/66	66.19	41.71	259.67	82.90	3	710	33600	36	900	2820	5.25	400/3/50
DXL 12T2/77	77.12	48.59	288.52	92.10	2	800	38800	42	890	3600	7.60	400/3/50

Modelo Type	Preço Price		Opções Options												
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapa inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM Hot gas deïrost.	Desc. gás quente GE Hot gas deïrost.	Desc. gás quente GT Hot gas deïrost.	Desc. Água Water deïrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock Adapter		
DXL 12M1/8	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Sob pedido Under request	S/P.	S/P.		
DXL 12P1/12	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12M2/17	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12P1/18	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12M2/23	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12P2/25	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12M2/28	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12P2/31	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12M3/35	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12P2/37	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12P3/47	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12T2/48	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12P3/57	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12T2/64	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12S3/66	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		
DXL 12T2/77	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.		S/P.	S/P.		

Ø500 / 560 mm



Ø710 / 800 mm



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E			
	5.16	7.45	400/3/50	5/8	1 3/8	3/4 BSP	840	1450	1050	615	102.0	0.90	DXL 12M1/8
	7.20	10.39	400/3/50	5/8	1 5/8	3/4 BSP	960	1710	1310	615	134.0	1.19	DXL 12P1/12
	9.60	13.86	400/3/50	7/8	1 5/8	1 1/4 BSP	840	2450	2050	615	165.0	1.51	DXL 12M2/17
	12.00	17.32	400/3/50	7/8	1 5/8	3/4 BSP	960	1710	1310	850	208.0	1.62	DXL 12P1/18
	14.40	20.78	400/3/50	7/8	2 1/8	1 1/4 BSP	840	2450	2050	850	214.0	2.05	DXL 12M2/23
	14.40	20.78	400/3/50	7/8	2 1/8	1 1/4 BSP	960	2970	2570	615	236.0	2.04	DXL 12P2/25
	19.20	2x13.85	400/3/50	7/8	2 1/8	1 1/4 BSP	840	2450	2050	850	246.0	2.05	DXL 12M2/28
	19.20	2x13.85	400/3/50	7/8	2 1/8	1 1/4 BSP	960	2970	2570	850	302.0	2.78	DXL 12P2/31
	19.80	28.58	400/3/50	7/8	2 1/8	1 1/4 BSP	840	3450	3050	850	307.0	2.87	DXL 12M3/35
	24.00	20.79+13.86	400/3/50	1 1/8	2 1/8	1 1/4 BSP	960	2970	2570	850	374.0	2.78	DXL 12P2/37
	28.80	2x20.79	400/3/50	1 1/8	2 5/8	2 BSP	960	4280	3830	850	439.0	3.98	DXL 12P3/47
	30.36	2x21.91	400/3/50	1 1/8	2 5/8	2 BSP	1365	3910	3410	735	535.0	6.24	DXL 12T2/48
	36.00	2x20.79 +10.38	400/3/50	2x7/8	2x2 1/8	2 BSP	960	4280	3830	850	535.0	3.98	DXL 12P3/57
	37.95	2x21.91+10.96	400/3/50	2x7/8	2x2 1/8	2 BSP	1365	3910	3410	940	624.0	6.24	DXL 12T2/64
	43.50	2x25.11+12.56	400/3/50	2x7/8	2x2 1/8	2 BSP	1125	4330	3830	875	637.0	5.46	DXL 12S3/66
	45.54	3x21.91	400/3/50	2x1 1/8	2x2 1/8	2 BSP	1365	3910	3410	940	707.0	6.24	DXL 12T2/77

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	-15	1.059	0.955	0.863	0.759	0.666	0.561	0.451
	-20	1.002	0.902	0.801	0.686	0.606	0.510	0.409
	-25	0.988	0.888	0.795	0.675	0.590	0.495	0.400
	-34					0.584	0.490	0.396

T_c = Temperatura de câmara Room temperature

Dados de Cálculo Selection Data

Isolamento Insulation

Refrigerados Chilling 80mm PU

Congelados Freezing 100mm PU

Temperatura exterior Exterior temperature +32°C

Entrada diária Daily rotation 10% (da capacidade da câmara)
(of the chamber capacity)

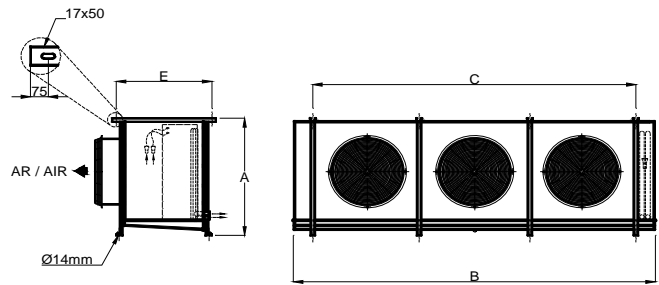
Tempo arrefecimento Cooling time 18h

Tipo de uso Usage Normal



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
	kW	kW			Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Pressão Estática Static Pressure Pa	Rotação Revolution rpm	Potência Power W	Corrente Current A	Alimentação MPS V / F / Hz	
BSUT 1102.2	19.45	11.78	88.70	36.90	1	700	11500	128	1300	2800	4.96	400/3/50	
BSUT 1202.2	37.31	22.60	158.70	62.80	2	700	23000	115	1300	5600	9.92	400/3/50	
BSUT 1302.2	52.16	31.60	209.40	82.50	2	700	34000	89	1300	7400	13.46	400/3/50	
BSUT 1402.2	62.68	37.98	297.60	114.90	3	700	34500	149	1300	8400	14.88	400/3/50	
BSUT 1402.2 XL	62.68	37.98	297.60	114.90	2	800	34500	190	1300	9600	19.44	400/3/50	
BSUT 1502.2	76.20	46.17	297.60	114.90	3	700	51000	80	1300	11100	20.19	400/3/50	
BSUT 1502.2 XL	76.20	46.17	297.60	114.90	2	800	51000	150	1300	12600	23.00	400/3/50	
BSUT 1602.2	92.50	56.04	407.80	155.30	4	700	54000	77	1300	11200	19.84	400/3/50	
BSUT 1602.2 XL	92.50	56.04	407.80	155.30	3	800	54000	162	1300	14400	29.16	400/3/50	
BSUT 1702.2	119.18	72.21	501.40	194.20	4	700	64000	85	1300	14800	26.92	400/3/50	
BSUT 1702.2 XL	119.18	72.21	501.40	194.20	3	800	64000	135	1300	18900	34.50	400/3/50	
BSUT 1802.2 XL	123.90	75.07	489.30	186.30	3	800	81000	106	1300	18900	34.50	400/3/50	
BSUT 1902.2 XL	156.88	95.05	608.30	230.10	4	800	108000	104	1300	25200	46.00	400/3/50	

Modelo Type	Preço Price		Opções Options										
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chaparia Inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM Hot gas defrost	Desc. gás quente GE Hot gas defrost	Desc. gás quente GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock Adapter
	EUR		EUR										
BSUT 1102.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	Sob pedido Under request	Não disponível Not available
BSUT 1202.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 1302.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 1402.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 1402.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	Sob pedido Under request	Não disponível Not available
BSUT 1502.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 1502.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 1602.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 1602.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	Sob pedido Under request	Não disponível Not available
BSUT 1702.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 1702.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 1802.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 1902.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain							
	kW	A	V / F / Hz	in	in	in	A	B	C	E	Kg	m ³	
	9.60	8,3+5,5	400/3/50	7/8	1 5/8	2 BSP	1190	1400	1050	990	280.0	3.57	BSUT 1102.2
	18.00	15,6+10,4	400/3/50	7/8	2 1/8	2 BSP	1190	2200	1850	990	460.0	5.48	BSUT 1202.2
	22.50	2x16,2	400/3/50	1 1/8	2 1/8	2 BSP	1430	2300	1950	1040	540.0	6.79	BSUT 1302.2
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1430	3200	2750	1040	750.0	9.34	BSUT 1402.2
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1430	3200	2750	1040	750.0	9.34	BSUT 1402.2 XL
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1430	3200	2750	1040	760.0	9.34	BSUT 1502.2
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1430	3200	2750	1040	760.0	9.34	BSUT 1502.2 XL
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1430	4200	3750	1040	990.0	12.17	BSUT 1602.2
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1430	4200	3750	1040	990.0	12.17	BSUT 1602.2 XL
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1430	4200	3750	1140	1115.0	12.82	BSUT 1702.2
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1430	4200	3750	1140	1115.0	12.82	BSUT 1702.2 XL
	57.96	3x23,88+11,94	400/3/50	2x1 1/8	2x2 5/8	2 BSP	1670	4200	3750	1090	1090.0	14.41	BSUT 1802.2 XL
	61.32	3x25,32+12,66	400/3/50	2x1 1/8	2x2 5/8	2 BSP	1670	5100	4650	1090	1360.0	17.06	BSUT 1902.2 XL

Factor de Gelo (FG) Ice Factor (FG)			
Ciclo T [Horas]	T<6	6<T<8	8<T<10
Arrefecimento Chilling	1	0.95	0.90
Congelamento Freezing	1	0.90	0.85

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490
	-15	1.018	0.918	0.830	0.730	0.640	0.539	0.434
	-20	0.963	0.867	0.770	0.660	0.583	0.490	0.393
	-25	0.950	0.854	0.764	0.649	0.567	0.476	0.385
	-34					0.561	0.471	0.381

T_c = Temperatura de câmara Room temperature

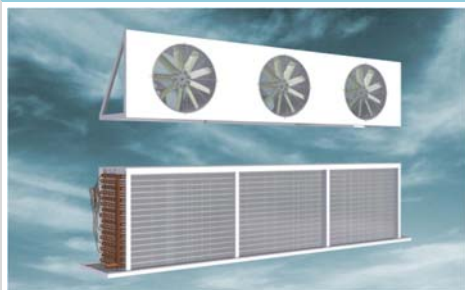
Importante Important

- Novo desenho da blindagem New Casing Design



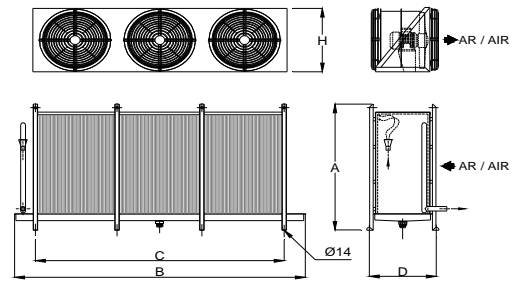
Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Pressão Estática Static Pressure	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
BSUT 2102.2	19.31	11.86	88.70	46.10	1	700	11500	106	1300	2800	4.96	400/3/50	
BSUT 2202.2	37.71	23.15	159.60	78.40	2	700	23000	94	1300	5600	9.92	400/3/50	
BSUT 2302.2	52.16	32.03	210.50	103.10	2	700	34000	86	1300	7400	13.46	400/3/50	
BSUT 2402.2	55.84	34.29	243.20	114.90	3	700	39000	106	1300	8400	14.88	400/3/50	
BSUT 2402.2 XL	55.84	34.29	243.20	114.90	2	800	39000	146	1300	9600	19.44	400/3/50	
BSUT 2502.2	75.68	46.47	299.20	143.60	3	700	51000	85	1300	11100	20.19	400/3/50	
BSUT 2502.2 XL	75.68	46.47	299.20	143.60	2	800	51000	140	1300	12600	23.00	400/3/50	
BSUT 2602.2	79.49	48.81	333.30	155.30	4	700	56000	82	1300	11200	19.84	400/3/50	
BSUT 2602.2 XL	79.49	48.81	333.30	155.30	3	800	56000	132	1300	14400	29.16	400/3/50	
BSUT 2702.2 XL	106.55	65.42	410.00	194.20	3	800	74000	145	1300	18900	34.50	400/3/50	
BSUT 2802.2 XL	123.90	76.08	492.00	233.00	3	800	81000	109	1300	18900	34.50	400/3/50	
BSUT 2902.2 XL	131.33	80.64	497.20	230.00	4	800	108000	124	1300	25200	46.00	400/3/50	

Modelo Type	Preço Price		Opções Options										
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chaparia inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock Adapter
	EUR		EUR										
BSUT 2102.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	Sob pedido Under request	Não disponível Not available
BSUT 2202.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 2302.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 2402.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 2402.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	Sob pedido Under request	Não disponível Not available
BSUT 2502.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 2502.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 2602.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 2602.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available	Sob pedido Under request	Não disponível Not available
BSUT 2702.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 2802.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUT 2902.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Pressão Estática Static Pressure	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
BSUS 3102.2	19.45	11.78	88.70	36.90	1	700	11500	128	1300	2800	4.96	400/3/50	
BSUS 3202.2	37.31	22.60	158.70	62.80	2	700	23000	115	1300	5600	9.92	400/3/50	
BSUS 3302.2	52.16	31.60	209.40	82.50	2	700	34000	89	1300	7400	13.46	400/3/50	
BSUS 3402.2	62.68	37.98	297.60	114.90	3	700	34500	149	1300	8400	14.88	400/3/50	
BSUS 3402.2 XL	62.68	37.98	297.60	114.90	2	800	34500	190	1300	9600	19.44	400/3/50	
BSUS 3502.2	76.20	46.17	297.60	114.90	3	700	51000	80	1300	11100	20.19	400/3/50	
BSUS 3502.2 XL	76.20	46.17	297.60	114.90	2	800	51000	150	1300	12600	23.00	400/3/50	
BSUS 3602.2	92.50	56.04	407.80	155.30	4	700	54000	77	1300	11200	19.84	400/3/50	
BSUS 3602.2 XL	92.50	56.04	407.80	155.30	3	800	54000	162	1300	14400	29.16	400/3/50	
BSUS 3702.2	119.18	72.21	501.40	194.20	4	700	64000	85	1300	14800	26.92	400/3/50	
BSUS 3702.2 XL	119.18	72.21	501.40	194.20	3	800	64000	135	1300	18900	34.50	400/3/50	
BSUS 3802.2 XL	123.90	75.07	489.30	186.30	3	800	81000	106	1300	18900	34.50	400/3/50	
BSUS 3902.2 XL	156.88	95.05	608.30	230.10	4	800	108000	104	1300	25200	46.00	400/3/50	

Modelo Type	Preço Price		Opções Options										
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated fins	Lacado branco White painted	Chapa inox Stainless steel casing	Tab. esgoto isol. Insulated drain pan	Desc. gás quente GM GM Hot gas defrost	Desc. gás quente GE GE Hot gas defrost	Desc. gás quente GT GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Condutas Air Sock Adapter
	EUR		EUR										
BSUS 3102.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível Not available		
BSUS 3202.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3302.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3402.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3402.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3502.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3502.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3602.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3602.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3702.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3702.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3802.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			
BSUS 3902.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.			

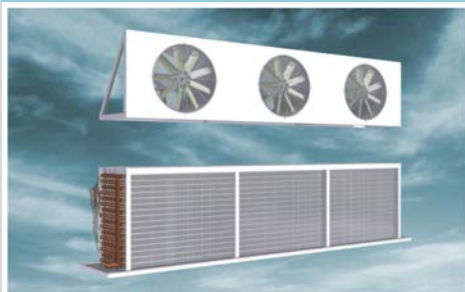


	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Potência Power	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	in	in	in	A	B	C	D	H			
	9.60	8,3+5,5	400/3/50	7/8	1 5/8	2 BSP	1350	1400	1050	731	815	235.0	2.44	BSUS 3102.2
	18.00	15,6+10,4	400/3/50	7/8	2 1/8	2 BSP	1350	2200	1850	731	815	385.0	3.79	BSUS 3202.2
	22.50	2x16,2	400/3/50	1 1/8	2 1/8	2 BSP	1590	2300	1950	731	815	450.0	4.42	BSUS 3302.2
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	3200	2750	731	815	620.0	6.24	BSUS 3402.2
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	3200	2750	731	915	620.0	6.24	BSUS 3402.2 XL
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	3200	2750	731	815	635.0	6.24	BSUS 3502.2
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	3200	2750	731	915	635.0	6.24	BSUS 3502.2 XL
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	4200	3750	731	815	855.0	8.18	BSUS 3602.2
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	4200	3750	731	915	855.0	8.18	BSUS 3602.2 XL
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	4200	3750	829	815	990.0	9.30	BSUS 3702.2
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	4200	3750	829	915	990.0	9.30	BSUS 3702.2 XL
	57.96	3x23,88+11,94	400/3/50	2x1 1/8	2x2 5/8	2 BSP	1830	4200	3750	731	915	970.0	8.99	BSUS 3802.2 XL
	61.32	3x25,32+12,66	400/3/50	2x1 1/8	2x2 5/8	2 BSP	1830	5100	4650	731	915	1165.0	10.92	BSUS 3902.2 XL

Factor de Gelo (FG) Ice Factor (FG)			
Ciclo T [Horas]	T<6	6<T<8	8<T<10
Arrefecimento Chilling	1	0.95	0.90
Congelamento Freezing	1	0.90	0.85

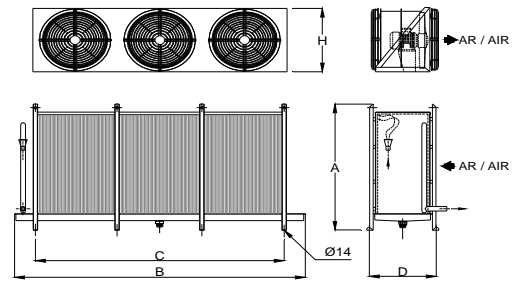
Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.352	1.217	1.082	0.947	0.813	0.707	0.588
	+2	1.250	1.125	1.000	0.893	0.772	0.665	0.539
	0	1.188	1.069	0.950	0.830	0.710	0.609	0.490
	-15	1.018	0.918	0.830	0.730	0.640	0.539	0.434
	-20	0.963	0.867	0.770	0.660	0.583	0.490	0.393
	-25	0.950	0.854	0.764	0.649	0.567	0.476	0.385
	-34					0.561	0.471	0.381

T_C = Temperatura de câmara Room temperature



Modelo Type	Capacidade (TC=+2°C / DTm=8°C) Capacity (RT=+2°C / DTm=8°C)	Capacidade (TC=-18°C / DTm=6°C) Capacity (RT=-18°C / DTm=6°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Pressão Estática Static Pressure	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
BSUS 4102.2	19.31	11.86	88.70	46.10	1	700	11500	106	1300	2800	4.96	400/3/50	
BSUS 4202.2	37.71	23.15	159.60	78.40	2	700	23000	94	1300	5600	9.92	400/3/50	
BSUS 4302.2	52.16	32.03	210.50	103.10	2	700	34000	86	1300	7400	13.46	400/3/50	
BSUS 4402.2	55.84	34.29	243.20	114.90	3	700	39000	106	1300	8400	14.88	400/3/50	
BSUS 4402.2 XL	55.84	34.29	243.20	114.90	2	800	39000	146	1300	9600	19.44	400/3/50	
BSUS 4502.2	75.68	46.47	299.20	143.60	3	700	51000	85	1300	11100	20.19	400/3/50	
BSUS 4502.2 XL	75.68	46.47	299.20	143.60	2	800	51000	140	1300	12600	23.00	400/3/50	
BSUS 4602.2	79.49	48.81	333.30	155.30	4	700	54000	82	1300	11200	19.84	400/3/50	
BSUS 4602.2 XL	79.49	48.81	333.30	155.30	3	800	54000	132	1300	14400	29.16	400/3/50	
BSUS 4702.2 XL	106.55	65.42	410.00	194.20	3	800	74000	145	1300	18900	34.50	400/3/50	
BSUS 4802.2 XL	123.90	76.08	492.00	233.00	3	800	81000	109	1300	18900	34.50	400/3/50	
BSUS 4902.2 XL	131.33	80.64	497.20	230.00	4	800	108000	124	1300	25200	46.00	400/3/50	

Modelo Type	Preço Price		Opções Options															
	Sem resistências Without heaters	Com resistências With heaters	Alheta revestida Coated Ins	Lacado branco White painted	Chaparia Inox Stainless steel casing	Tab. esgoto Isol.	Insulated drain pan	Desc. gás quente GM	GM Hot gas defrost	Desc. gás quente GE	GE Hot gas defrost	Desc. gás quente GT	GT Hot gas defrost	Desc. Água Water defrost	Bateria resistências Heater coil	Resistências Gola Fan Heaters	Adaptador Conduitas Air Sock	Adapten
	EUR		EUR															
BSUS 4102.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	Não disponível	Not available		
BSUS 4202.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4302.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4402.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4402.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4502.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4502.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4602.2	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4602.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4702.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4802.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				
BSUS 4902.2 XL	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.	S/P.				

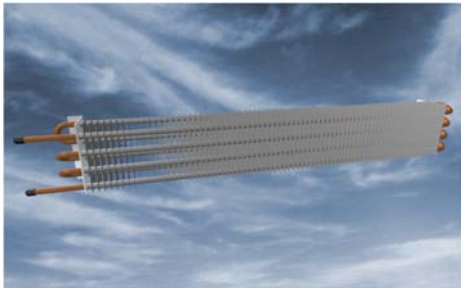


	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Potência Power	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	in	in	in	A	B	C	D	H	Kg	m³	
	9.60	8,3+5,5	400/3/50	7/8	1 5/8	2 BSP	1350	1400	1050	829	815	265.0	2.76	BSUS 4102.2
	18.00	15,6+10,4	400/3/50	7/8	2 1/8	2 BSP	1350	2200	1850	829	815	440.0	4.29	BSUS 4202.2
	22.50	2x16,2	400/3/50	1 1/8	2 1/8	2 BSP	1590	2300	1950	829	815	520.0	5.01	BSUS 4302.2
	33.12	2x23,94	400/3/50	1 1/8	2 1/8	2 BSP	1590	3200	2750	731	815	630.0	6.24	BSUS 4402.2
	33.12	2x23,94	400/3/50	1 1/8	2 1/8	2 BSP	1590	3200	2750	731	915	630.0	6.24	BSUS 4402.2 XL
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	3200	2750	829	815	730.0	7.09	BSUS 4502.2
	33.12	2x23,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	3200	2750	829	915	730.0	7.09	BSUS 4502.2 XL
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	4200	3750	731	815	885.0	8.18	BSUS 4602.2
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	4200	3750	731	915	885.0	8.18	BSUS 4602.2 XL
	51.12	3x24,60	400/3/50	2x7/8	2x2 1/8	2 BSP	1590	4200	3750	829	915	1010.0	9.30	BSUS 4702.2 XL
	57.96	3x23,88+11,94	400/3/50	2x7/8	2x2 1/8	2 BSP	1830	4200	3750	829	915	1115.0	10.22	BSUS 4802.2 XL
	61.32	3x25,32+12,66	400/3/50	2x1 1/8	2x2 5/8	2 BSP	1830	5100	4650	731	915	1200.0	10.92	BSUS 4902.2 XL

Factor de Gelo (FG) Ice Factor (FG)			
Ciclo T [Horas]	T<6	6<T<8	8<T<10
Arrefecimento Chilling	1	0.95	0.90
Congelamento Freezing	1	0.90	0.85

Factor de correcção "RCm" Correction Factor "RCm"								
		DTm [°C]						
		10	9	8	7	6	5	4
TC [°C]	+5	1.406	1.266	1.125	0.985	0.846	0.735	0.612
	+2	1.300	1.170	1.000	0.929	0.803	0.692	0.561
	0	1.235	1.112	0.988	0.863	0.738	0.633	0.510
	-20	1.002	0.902	0.801	0.686	0.606	0.510	0.409
	-25	0.988	0.888	0.795	0.675	0.590	0.495	0.400
	-34					0.584	0.490	0.396
	-40					0.571	0.478	0.389

T_c = Temperatura de câmara Room temperature



BBX

VCN

VBT

VBI / VBP

BCX

VCN

VCT / EPC

EAC

TX

ECT

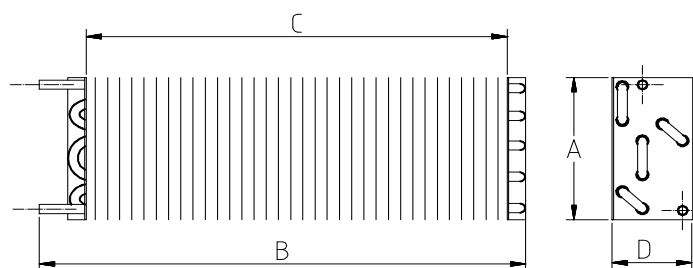
VEH

BEH

MEH

Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
			mm			
4BBX5	38	0.36	127	610	530	40
4BBX6	43	0.40	127	680	600	40
4BBX7	50	0.47	127	780	700	40
4BBX13	94	0.88	127	1410	1330	40
4BBX15	108	1.00	127	1610	1530	40
4BBX20	147	1.37	127	2160	2080	40
4BBX25	181	1.69	127	2660	2580	40
4BBX30	216	2.02	127	3160	3080	40
6BBX5	57	0.54	191	610	530	40
6BBX6	65	0.61	191	680	600	40
6BBX7	756	0.70	191	780	700	40
6BBX13	141	1.32	191	1410	1330	40
6BBX15	162	1.52	191	1610	1530	40
6BBX20	220	2.05	191	2160	2080	40
6BBX25	272	2.54	191	2660	2580	40
6BBX30	323	3.03	191	3160	3080	40
8BBX5	77	0.72	254	610	530	40
8BBX6	86	0.81	254	680	600	40
8BBX7	126	0.94	254	780	700	40
8BBX13	188	1.76	254	1410	1330	40

Modelo Type	Prego Price
	EUR
4BBX5	S/P.
4BBX6	S/P.
4BBX7	S/P.
4BBX13	S/P.
4BBX15	S/P.
4BBX20	S/P.
4BBX25	S/P.
4BBX30	S/P.
6BBX5	S/P.
6BBX6	S/P.
6BBX7	S/P.
6BBX13	S/P.
6BBX15	S/P.
6BBX20	S/P.
6BBX25	S/P.
6BBX30	S/P.
8BBX5	S/P.
8BBX6	S/P.
8BBX7	S/P.
8BBX13	S/P.



Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface	Dimensões Dimensions			
			A	B	C	D
			mm			
8BBX15	216	2.02	254	1610	1530	40
8BBX20	293	2.74	254	2160	2080	40
8BBX25	363	3.39	254	2660	2580	40
8BBX30	433	4.04	254	3160	3080	40
10BBX5	95	0.89	318	610	530	40
10BBX6	108	1.00	318	680	600	40
10BBX7	126	1.17	318	780	700	40
10BBX13	235	2.20	318	1410	1330	40
10BBX15	270	2.52	318	1610	1530	40
10BBX20	366	3.42	318	2160	2080	40
10BBX25	453	4.24	318	2660	2580	40
10BBX30	541	5.01	318	3160	3080	40
12BBX5	115	1.07	381	610	530	40
12BBX6	129	1.21	381	680	600	40
12BBX7	150	1.40	381	780	700	40
12BBX13	282	2.64	381	1410	1330	40
12BBX15	324	3.03	381	1610	1530	40
12BBX20	439	4.11	381	2160	2080	40
12BBX25	544	5.09	381	2660	2580	40
12BBX30	646	6.07	381	3160	3080	40

Modelo Type	Preço Price EUR
8BBX15	S/P.
8BBX20	S/P.
8BBX25	S/P.
8BBX30	S/P.
10BBX5	S/P.
10BBX6	S/P.
10BBX7	S/P.
10BBX13	S/P.
10BBX15	S/P.
10BBX20	S/P.
10BBX25	S/P.
10BBX30	S/P.
12BBX5	S/P.
12BBX6	S/P.
12BBX7	S/P.
12BBX13	S/P.
12BBX15	S/P.
12BBX20	S/P.
12BBX25	S/P.
12BBX30	S/P.

BBX

VBN

VBT

VBI / VBP

BCX

VCN

VCT / EPC

EAC

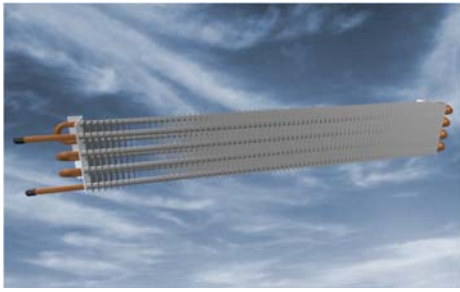
TX

ECT

VEH

BEH

MEH



BBX

VBN

VBT

VBI / VBP

BCX

VCN

VCT / EPC

EAC

TX

ECT

VEH

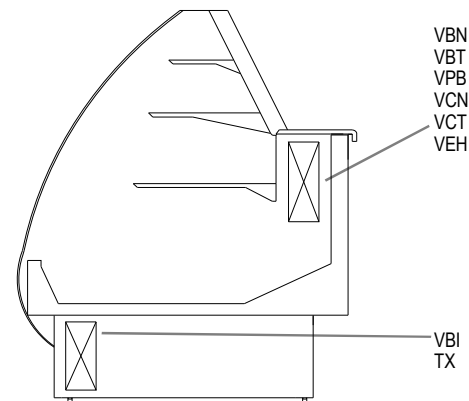
BEH

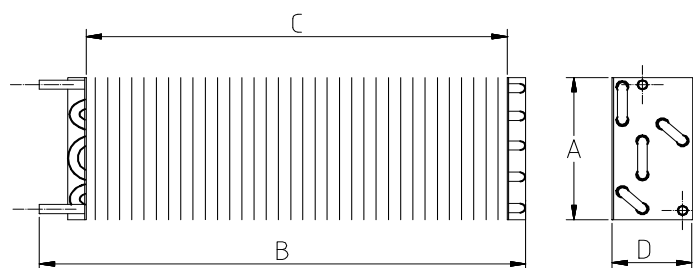
MEH

Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
			mm			
6VBN5	72	0.77	96	650	530	98
6VBN7	94	1.02	96	820	700	98
6VBN11	153	1.64	96	1265	1145	98
6VBN13	178	1.91	96	1450	1330	98
6VBN16	219	2.35	96	1765	1645	98
6VBN21	285	3.06	96	2265	2145	98
6VBN26	349	3.77	96	2765	2645	98
6VBN31	419	4.48	96	3265	3145	98
8VBN5	96	1.03	127	650	530	98
8VBN7	126	1.35	127	820	700	98
8VBN11	203	2.19	127	1265	1145	98
8VBN13	238	2.54	127	1450	1330	98
8VBN16	291	3.14	127	1765	1645	98
8VBN21	384	4.08	127	2265	2145	98
8VBN26	465	5.03	127	2765	2645	98
8VBN31	558	5.96	127	3265	3145	98
10VBN5	120	1.29	159	650	530	98
10VBN7	160	1.69	159	820	700	98
10VBN11	253	2.74	159	1265	1145	98
10VBN13	295	3.18	159	1450	1330	98

Modelo Type	Preço Price
	EUR
6VBN5	S/P.
6VBN7	S/P.
6VBN11	S/P.
6VBN13	S/P.
6VBN16	S/P.
6VBN21	S/P.
6VBN26	S/P.
6VBN31	S/P.
8VBN5	S/P.
8VBN7	S/P.
8VBN11	S/P.
8VBN13	S/P.
8VBN16	S/P.
8VBN21	S/P.
8VBN26	S/P.
8VBN31	S/P.
10VBN5	S/P.
10VBN7	S/P.
10VBN11	S/P.
10VBN13	S/P.

Aplicações Applications

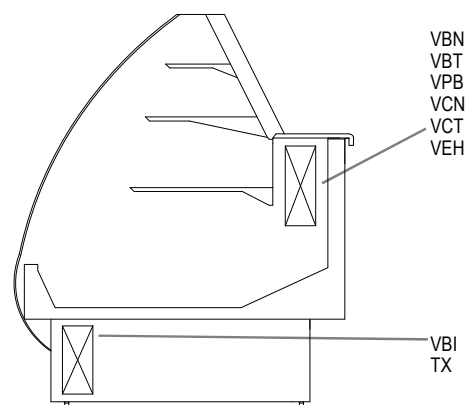


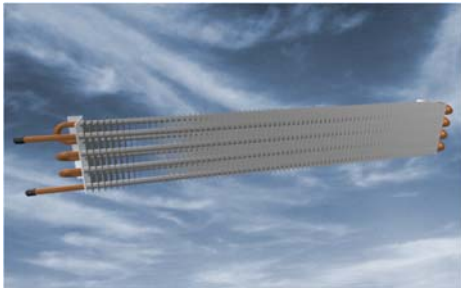


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface	Dimensões Dimensions			
			A	B	C	D
			mm			
10VBN16	366	3.92	159	1765	1645	98
10VBN21	474	5.10	159	2265	2145	98
10VBN26	588	6.28	159	2765	2645	98
10VBN31	698	7.46	159	3265	3145	98
12VBN5	144	1.55	191	650	530	98
12VBN7	195	2.03	191	820	700	98
12VBN11	312	3.29	191	1265	1145	98
12VBN13	356	3.81	191	1450	1330	98
12VBN16	442	4.70	191	1765	1645	98
12VBN21	570	6.12	191	2265	2145	98
12VBN26	819	7.54	191	2765	2645	98
12VBN31	972	8.95	191	3265	3145	98
14VBN5	169	1.81	223	650	530	98
14VBN7	221	2.37	223	820	700	98
14VBN11	357	3.84	223	1265	1145	98
14VBN13	414	4.45	223	1450	1330	98
14VBN16	510	5.49	223	1765	1645	98
14VBN21	664	7.14	223	2265	2145	98
14VBN26	819	8.79	223	2765	2645	98
14VBN31	972	10.44	223	3265	3145	98

Modelo Type	Preço Price EUR
10VBN16	S/P.
10VBN21	S/P.
10VBN26	S/P.
10VBN31	S/P.
12VBN5	S/P.
12VBN7	S/P.
12VBN11	S/P.
12VBN13	S/P.
12VBN16	S/P.
12VBN21	S/P.
12VBN26	S/P.
12VBN31	S/P.
14VBN5	S/P.
14VBN7	S/P.
14VBN11	S/P.
14VBN13	S/P.
14VBN16	S/P.
14VBN21	S/P.
14VBN26	S/P.
14VBN31	S/P.

Aplicações Applications





BBX

VCN

VBT

VBI / VBP

BCX

VCN

VCT / EPC

EAC

TX

ECT

VEH

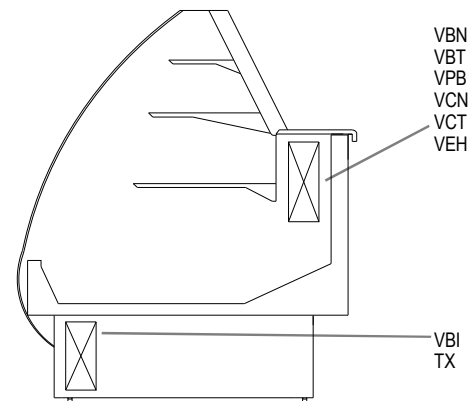
BEH

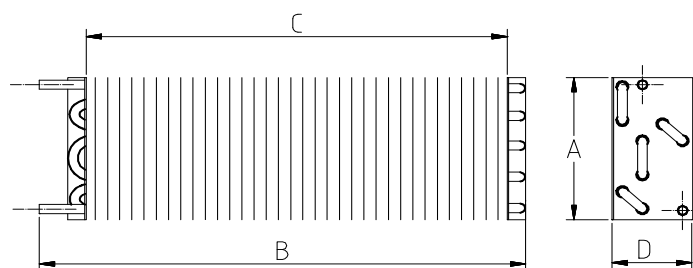
MEH

Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
			mm			
6VBT5	88	1.00	127	650	530	98
6VBT7	115	1.32	127	820	700	98
6VBT11	186	2.14	127	1265	1145	98
6VBT13	217	2.49	127	1450	1330	98
6VBT16	267	3.07	127	1765	1645	98
6VBT21	349	3.99	127	2265	2145	98
6VBT26	430	4.92	127	2765	2645	98
6VBT31	510	5.85	127	3265	3145	98
8VBT5	110	1.26	159	650	530	98
8VBT7	145	1.66	159	820	700	98
8VBT11	235	2.69	159	1265	1145	98
8VBT13	272	3.12	159	1450	1330	98
8VBT16	336	3.86	159	1765	1645	98
8VBT21	437	5.02	159	2265	2145	98
8VBT26	538	6.18	159	2765	2645	98
8VBT31	639	7.34	159	3265	3145	98
10VBT5	132	1.52	191	650	530	98
10VBT7	174	1.99	191	820	700	98
10VBT11	285	3.24	191	1265	1145	98
10VBT13	328	3.76	191	1450	1330	98

Modelo Type	Preço Price EUR
6VBT5	S/P.
6VBT7	S/P.
6VBT11	S/P.
6VBT13	S/P.
6VBT16	S/P.
6VBT21	S/P.
6VBT26	S/P.
6VBT31	S/P.
8VBT5	S/P.
8VBT7	S/P.
8VBT11	S/P.
8VBT13	S/P.
8VBT16	S/P.
8VBT21	S/P.
8VBT26	S/P.
8VBT31	S/P.
10VBT5	S/P.
10VBT7	S/P.
10VBT11	S/P.
10VBT13	S/P.

Aplicações Applications

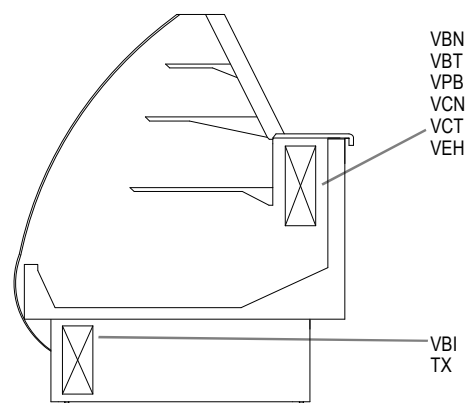




Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
10VBT16	405	4.64	191	1765	1645	98
10VBT21	527	6.04	191	2265	2145	98
10VBT26	649	7.44	191	2765	2645	98
10VBT31	771	8.83	191	3265	3145	98
12VBT5	156	1.78	223	650	530	98
12VBT7	203	2.34	223	820	700	98
12VBT11	330	3.79	223	1265	1145	98
12VBT13	384	4.39	223	1450	1330	98
12VBT16	473	5.42	223	1765	1645	98
12VBT21	615	7.06	223	2265	2145	98
12VBT26	758	8.69	223	2765	2645	98
12VBT31	901	10.33	223	3265	3145	98
14VBT5	178	2.04	254	650	530	98
14VBT7	233	2.67	254	820	700	98
14VBT11	379	4.34	254	1265	1145	98
14VBT13	438	5.03	254	1450	1330	98
14VBT16	542	6.21	254	1765	1645	98
14VBT21	705	8.08	254	2265	2145	98
14VBT26	867	9.95	254	2765	2645	98
14VBT31	1031	11.82	254	3265	3145	98

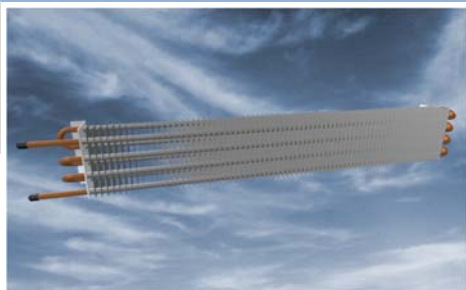
Modelo Type	Preço Price EUR
10VBT16	S/P.
10VBT21	S/P.
10VBT26	S/P.
10VBT31	S/P.
12VBT5	S/P.
12VBT7	S/P.
12VBT11	S/P.
12VBT13	S/P.
12VBT16	S/P.
12VBT21	S/P.
12VBT26	S/P.
12VBT31	S/P.
14VBT5	S/P.
14VBT7	S/P.
14VBT11	S/P.
14VBT13	S/P.
14VBT16	S/P.
14VBT21	S/P.
14VBT26	S/P.
14VBT31	S/P.

Aplicações Applications



VBI/VPB

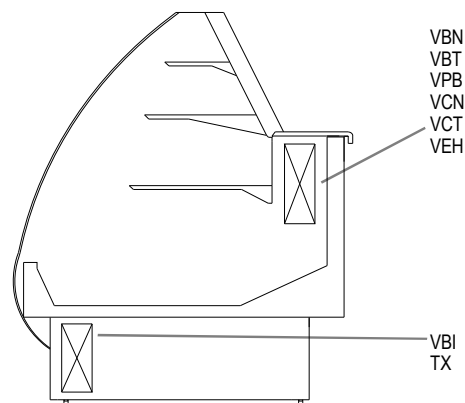
Evaporadores de Bancada Slim Thickness Coolers
 Espaçamento Fin Spacing 12,0 mm
 Ø Tubo Ø Tube 3/8"

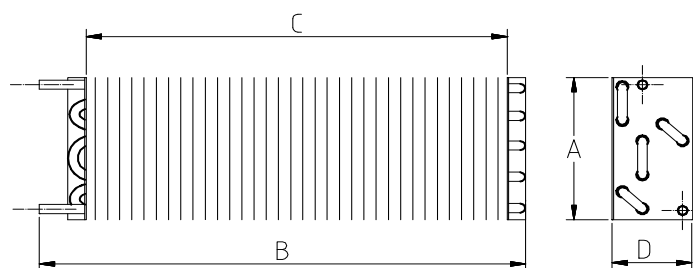


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
			mm			
4VBI5	51	0.51	96	610	530	68
4VBI7	66	0.67	96	780	700	68
4VBI10	97	0.99	96	1110	1030	68
4VBI13	126	1.27	96	1410	1330	68
4VBI15	143	1.45	96	1610	1530	68
4VBI20	195	1.98	96	2160	2080	68
4VBI25	242	2.45	96	2660	2580	68
4VBI30	291	2.92	96	3160	3080	68
6VBI5	69	0.69	127	610	530	68
6VBI7	90	0.91	127	780	700	68
6VBI10	145	1.47	127	1110	1030	68
6VBI13	169	1.71	127	1410	1330	68
6VBI15	208	2.11	127	1610	1530	68
6VBI20	271	2.74	127	2160	2080	68
6VBI25	334	3.38	127	2660	2580	68
6VBI30	395	4.00	127	3160	3080	68

Modelo Type	Preço Price EUR
4VBI5	S.P.
4VBI7	S.P.
4VBI10	S.P.
4VBI13	S.P.
4VBI15	S.P.
4VBI20	S.P.
4VBI25	S.P.
4VBI30	S.P.
6VBI5	S.P.
6VBI7	S.P.
6VBI10	S.P.
6VBI13	S.P.
6VBI15	S.P.
6VBI20	S.P.
6VBI25	S.P.
6VBI30	S.P.

Aplicações Applications

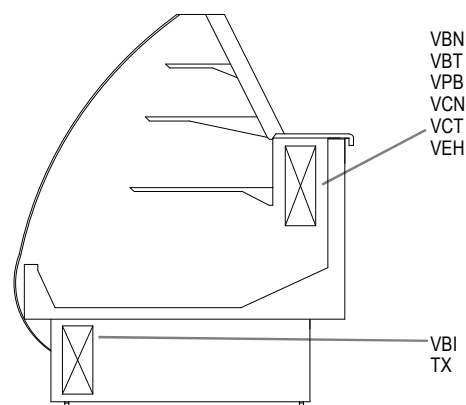


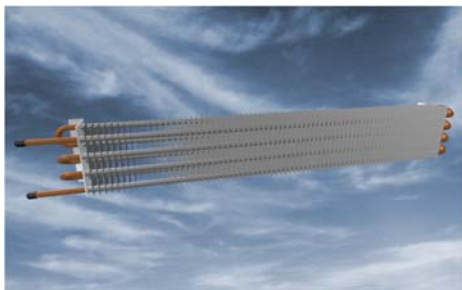


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
6VPB5	102	1.23	159	650	530	98
6VPB7	135	1.62	159	820	700	98
6VPB11	219	2.64	159	1265	1145	98
6VPB13	253	3.07	159	1450	1330	98
6VPB16	313	3.79	159	1765	1645	98
6VPB21	407	4.94	159	2265	2145	98
6VPB26	502	6.08	159	2765	2645	98
6VPB31	596	7.22	159	3265	3145	98
8VPB5	123	1.49	191	650	530	98
8VPB7	162	1.96	191	820	700	98
8VPB11	264	3.19	191	1265	1145	98
8VPB13	308	3.70	191	1450	1330	98
8VPB16	376	4.58	191	1765	1645	98
8VPB21	489	5.96	191	2265	2145	98
8VPB26	603	7.33	191	2765	2645	98
8VPB31	720	8.72	191	3265	3145	98

Modelo Type	Preço Price EUR
6VPB5	S/P.
6VPB7	S/P.
6VPB11	S/P.
6VPB13	S/P.
6VPB16	S/P.
6VPB21	S/P.
6VPB26	S/P.
6VPB31	S/P.
8VPB5	S/P.
8VPB7	S/P.
8VPB11	S/P.
8VPB13	S/P.
8VPB16	S/P.
8VPB21	S/P.
8VPB26	S/P.
8VPB31	S/P.

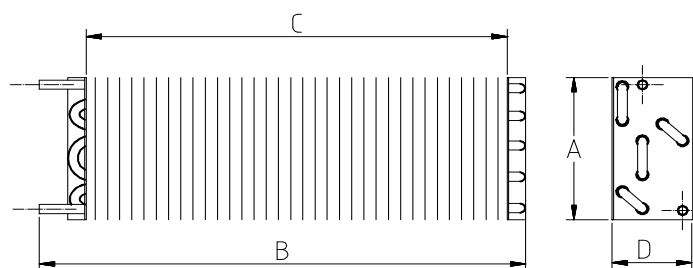
Aplicações Applications





Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
4BCX5	49	0.49	77	620	520	79
4BCX6	56	0.55	77	690	590	79
4BCX7	65	0.64	77	790	690	79
4BCX10	94	0.94	77	1120	1020	79
4BCX13	122	1.22	77	1420	1320	79
4BCX15	140	1.40	77	1620	1520	79
4BCX20	190	1.90	77	2170	2070	79
4BCX25	236	2.35	77	2670	2570	79
4BCX30	281	2.81	77	3170	3070	79
4BCX36	334	3.33	77	3745	3645	79
6BCX5	73	0.73	115	620	520	79
6BCX6	83	0.83	115	690	590	79
6BCX7	97	0.96	115	790	690	79
6BCX10	142	1.42	115	1120	1020	79
6BCX13	183	1.82	115	1420	1320	79
6BCX15	209	2.10	115	1620	1520	79
6BCX20	285	2.85	115	2170	2070	79
6BCX25	353	3.53	115	2670	2570	79
6BCX30	421	4.21	115	3170	3070	79
6BCX36	500	4.99	115	3745	3645	79
8BCX5	102	0.97	153	620	520	79
8BCX6	115	1.10	153	690	590	79
8BCX7	135	1.28	153	790	690	79
8BCX10	198	1.88	153	1120	1020	79
8BCX13	255	2.43	153	1420	1320	79

Modelo Type	Preço Price EUR
4BCX5	S/P.
4BCX6	S/P.
4BCX7	S/P.
4BCX10	S/P.
4BCX13	S/P.
4BCX15	S/P.
4BCX20	S/P.
4BCX25	S/P.
4BCX30	S/P.
4BCX36	S/P.
6BCX5	S/P.
6BCX6	S/P.
6BCX7	S/P.
6BCX10	S/P.
6BCX13	S/P.
6BCX15	S/P.
6BCX20	S/P.
6BCX25	S/P.
6BCX30	S/P.
6BCX36	S/P.
8BCX5	S/P.
8BCX6	S/P.
8BCX7	S/P.
8BCX10	S/P.
8BCX13	S/P.



Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
8BCX15	293	2.79	153	1620	1520	79
8BCX20	398	3.79	153	2170	2070	79
8BCX25	493	4.70	153	2670	2570	79
8BCX30	588	5.62	153	3170	3070	79
8BCX36	698	6.66	153	3745	3645	79
10BCX5	128	1.22	191	620	520	79
10BCX6	144	1.38	191	690	590	79
10BCX7	169	1.61	191	790	690	79
10BCX10	247	2.36	191	1120	1020	79
10BCX13	319	3.04	191	1420	1320	79
10BCX15	366	3.49	191	1620	1520	79
10BCX20	497	4.74	191	2170	2070	79
10BCX25	616	5.88	191	2670	2570	79
10BCX30	735	7.02	191	3170	3070	79
10BCX36	872	8.33	191	3745	3645	79
12BCX5	153	1.47	229	620	520	79
12BCX6	173	1.66	229	690	590	79
12BCX7	202	1.93	229	790	690	79
12BCX10	297	2.83	229	1120	1020	79
12BCX13	381	3.65	229	1420	1320	79
12BCX15	438	4.19	229	1620	1520	79
12BCX20	597	5.69	229	2170	2070	79
12BCX25	738	7.06	229	2670	2570	79
12BCX30	881	8.42	229	3170	3070	79
12BCX36	1045	9.99	229	3745	3645	79

Modelo Type	Preço Price EUR
8BCX15	S/P.
8BCX20	S/P.
8BCX25	S/P.
8BCX30	S/P.
8BCX36	S/P.
10BCX5	S/P.
10BCX6	S/P.
10BCX7	S/P.
10BCX10	S/P.
10BCX13	S/P.
10BCX15	S/P.
10BCX20	S/P.
10BCX25	S/P.
10BCX30	S/P.
10BCX36	S/P.
12BCX5	S/P.
12BCX6	S/P.
12BCX7	S/P.
12BCX10	S/P.
12BCX13	S/P.
12BCX15	S/P.
12BCX20	S/P.
12BCX25	S/P.
12BCX30	S/P.
12BCX36	S/P.

BBX

VBN

VBT

VBI / VBP

BCX

VCN

VCT / EPC

EAC

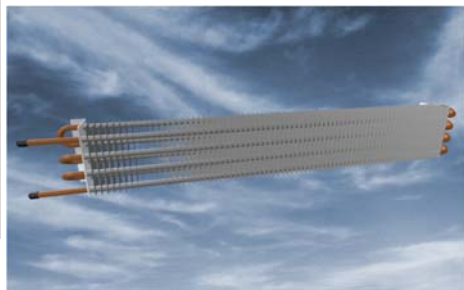
TX

ECT

VEH

BEH

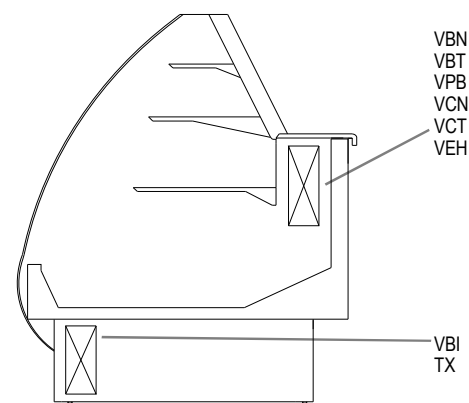
MEH

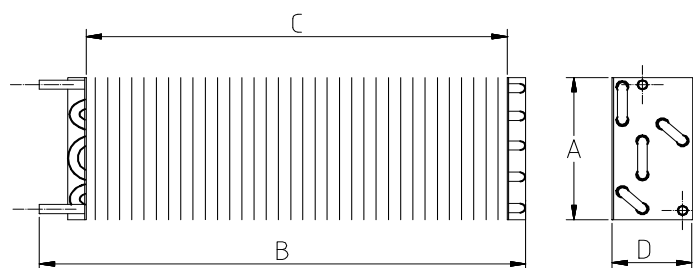


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
			mm			
6VCN5	100	1.07	115	660	520	114
6VCN7	132	1.41	115	830	690	114
6VCN11	214	2.29	115	1275	1135	114
6VCN13	248	2.67	115	1460	1320	114
6VCN16	307	3.29	115	1775	1635	114
6VCN21	399	4.29	115	2275	2135	114
6VCN26	492	5.28	115	2775	2635	114
6VCN31	585	6.28	115	3275	3135	114
6VCN36	677	7.28	115	3775	3635	114
8VCN5	133	1.43	153	660	520	114
8VCN7	174	1.88	153	830	690	114
8VCN11	285	3.06	153	1275	1135	114
8VCN13	330	3.55	153	1460	1320	114
8VCN16	408	4.39	153	1775	1635	114
8VCN21	533	5.72	153	2275	2135	114
8VCN26	656	7.05	153	2775	2635	114
8VCN31	779	8.37	153	3275	3135	114
8VCN36	904	9.71	153	3775	3635	114
10VCN5	166	1.78	191	660	520	114
10VCN7	219	2.35	191	830	690	114
10VCN11	356	3.83	191	1275	1135	114
10VCN13	413	4.44	191	1460	1320	114
10VCN16	510	5.49	191	1775	1635	114

Modelo Type	Preço Price EUR
6VCN5	S/P.
6VCN7	S/P.
6VCN11	S/P.
6VCN13	S/P.
6VCN16	S/P.
6VCN21	S/P.
6VCN26	S/P.
6VCN31	S/P.
6VCN36	S/P.
8VCN5	S/P.
8VCN7	S/P.
8VCN11	S/P.
8VCN13	S/P.
8VCN16	S/P.
8VCN21	S/P.
8VCN26	S/P.
8VCN31	S/P.
8VCN36	S/P.
10VCN5	S/P.
10VCN7	S/P.
10VCN11	S/P.
10VCN13	S/P.
10VCN16	S/P.

Aplicações Applications

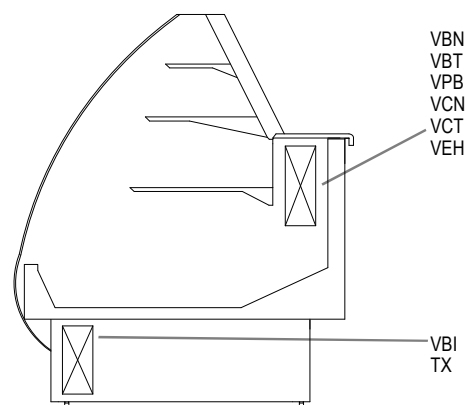


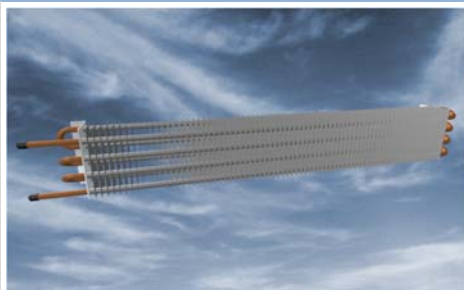


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface	Dimensões Dimensions			
			A	B	C	D
			mm			
10VCN21	665	7.15	191	2275	2135	114
10VCN26	820	8.81	191	2775	2635	114
10VCN31	974	10.47	191	3275	3135	114
10VCN36	1129	12.13	191	3775	3635	114
12VCN5	199	2.14	229	660	520	114
12VCN7	262	2.82	229	830	690	114
12VCN11	427	4.59	229	1275	1135	114
12VCN13	495	5.33	229	1460	1320	114
12VCN16	613	6.59	229	1775	1635	114
12VCN21	798	8.58	229	2275	2135	114
12VCN26	984	10.57	229	2775	2635	114
12VCN31	1167	12.56	229	3275	3135	114
12VCN36	1354	14.56	229	3775	3635	114
14VCN5	233	2.49	267	660	520	114
14VCN7	306	3.29	267	830	690	114
14VCN11	499	5.36	267	1275	1135	114
14VCN13	579	6.22	267	1460	1320	114
14VCN16	715	7.68	267	1775	1635	114
14VCN21	930	10.00	267	2275	2135	114
14VCN26	1148	12.33	267	2775	2635	114
14VCN31	1364	14.66	267	3275	3135	114
14VCN36	1580	15.98	267	3775	3635	114

Modelo Type	Preço Price EUR
10VCN21	S/P.
10VCN26	S/P.
10VCN31	S/P.
10VCN36	S/P.
12VCN5	S/P.
12VCN7	S/P.
12VCN11	S/P.
12VCN13	S/P.
12VCN16	S/P.
12VCN21	S/P.
12VCN26	S/P.
12VCN31	S/P.
12VCN36	S/P.
14VCN5	S/P.
14VCN7	S/P.
14VCN11	S/P.
14VCN13	S/P.
14VCN16	S/P.
14VCN21	S/P.
14VCN26	S/P.
14VCN31	S/P.
14VCN36	S/P.

Aplicações Applications

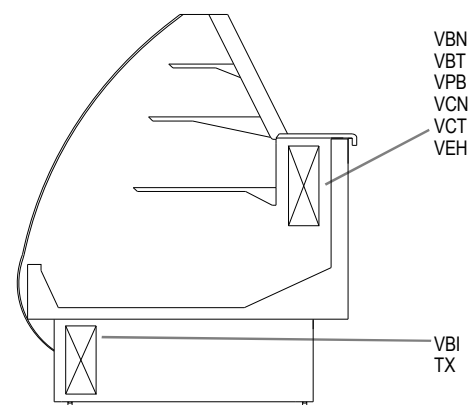


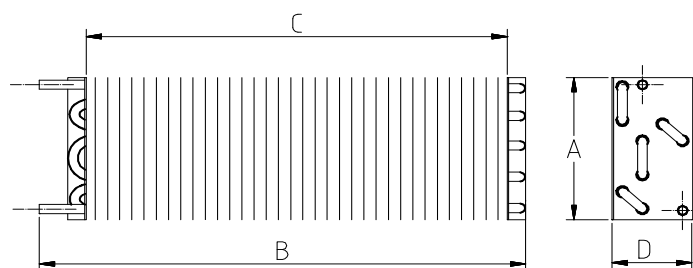


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
			mm			
12VCT5	154	1.47	153	620	520	114
12VCT7	202	1.93	153	790	690	114
12VCT11	329	3.14	153	1235	1135	114
12VCT13	381	3.65	153	1420	1320	114
12VCT16	472	4.51	153	1735	1635	114
12VCT21	615	5.87	153	2235	2135	114
12VCT26	756	7.23	153	2735	2635	114
12VCT31	900	8.60	153	3235	3135	114
12VCT36	1043	9.96	153	3735	3635	114
15VCT5	192	1.83	191	620	520	114
15VCT7	252	2.41	191	790	690	114
15VCT11	410	3.93	191	1235	1135	114
15VCT13	477	4.56	191	1420	1320	114
15VCT16	590	5.63	191	1735	1635	114
15VCT21	767	7.34	191	2235	2135	114
15VCT26	947	9.04	191	2735	2635	114
15VCT31	1126	10.75	191	3235	3135	114
15VCT36	1302	12.45	191	3735	3635	114

Modelo Type	Preço Price EUR
12VCT5	S.P.
12VCT7	S.P.
12VCT11	S.P.
12VCT13	S.P.
12VCT16	S.P.
12VCT21	S.P.
12VCT26	S.P.
12VCT31	S.P.
12VCT36	S.P.
15VCT5	S.P.
15VCT7	S.P.
15VCT11	S.P.
15VCT13	S.P.
15VCT16	S.P.
15VCT21	S.P.
15VCT26	S.P.
15VCT31	S.P.
15VCT36	S.P.

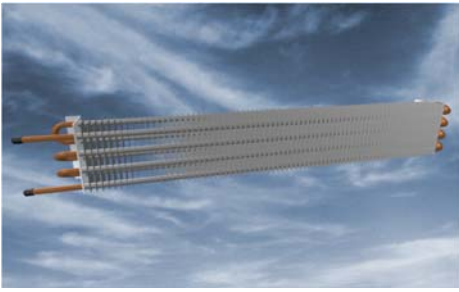
Aplicações Applications





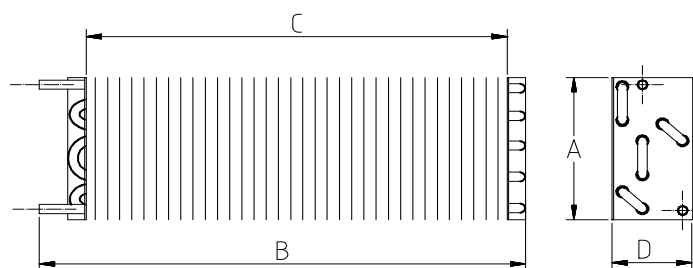
Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
12EPC280	141	1.52	458	390	280	70
12EPC380	190	2.05	458	490	380	70
12EPC480	240	2.57	458	590	480	70
12EPC580	288	3.09	458	690	580	70
12EPC780	386	4.14	458	890	780	70
12EPC980	484	5.19	458	1090	980	70
12EPC1180	581	6.24	458	1290	1180	70
12EPC1380	678	7.29	458	1490	1380	70
18EPC280	213	2.29	686	390	280	70
18EPC380	286	3.07	686	490	380	70
18EPC480	359	3.86	686	590	480	70
18EPC580	433	4.64	686	690	580	70
18EPC780	579	6.22	686	890	780	70
18EPC980	726	7.79	686	1090	980	70
18EPC1180	1162	9.36	686	1290	1180	70
18EPC1380	1017	10.94	686	1490	1380	70
24EPC280	284	3.05	915	390	280	70
24EPC380	381	4.09	915	490	380	70
24EPC480	479	5.14	915	590	480	70
24EPC580	577	6.19	915	690	580	70
24EPC780	770	8.29	915	890	780	70
24EPC980	965	10.39	915	1090	980	70
24EPC1180	1162	12.49	915	1290	1180	70
24EPC1380	1357	14.58	915	1490	1380	70

Modelo Type	Prego Price
	EUR
12EPC280	S/P.
12EPC380	S/P.
12EPC480	S/P.
12EPC580	S/P.
12EPC780	S/P.
12EPC980	S/P.
12EPC1180	S/P.
12EPC1380	S/P.
18EPC280	S/P.
18EPC380	S/P.
18EPC480	S/P.
18EPC580	S/P.
18EPC780	S/P.
18EPC980	S/P.
18EPC1180	S/P.
18EPC1380	S/P.
24EPC280	S/P.
24EPC380	S/P.
24EPC480	S/P.
24EPC580	S/P.
24EPC780	S/P.
24EPC980	S/P.
24EPC1180	S/P.
24EPC1380	S/P.



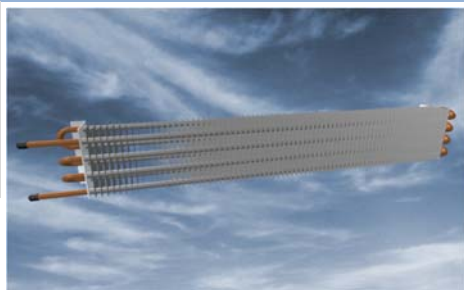
Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
			mm			
12EAC300	180	2.21	420	460	300	105
12EAC400	238	2.92	420	560	400	105
12EAC550	326	3.99	420	710	550	105
12EAC650	383	4.70	420	810	650	105
12EAC750	441	5.42	420	910	750	105
12EAC950	557	6.84	420	1110	950	105
16EAC300	245	3.00	572	460	300	105
16EAC400	324	3.98	572	560	400	105
16EAC550	443	5.44	572	710	550	105
16EAC650	522	6.40	572	810	650	105
16EAC750	601	7.38	572	910	750	105
16EAC950	759	9.32	572	1110	950	105
20EAC300	311	3.81	724	460	300	105
20EAC400	411	5.04	724	560	400	105
20EAC550	561	6.88	724	710	550	105

Modelo Type	Preço Price
	EUR
12EAC300	S/P.
12EAC400	S/P.
12EAC550	S/P.
12EAC650	S/P.
12EAC750	S/P.
12EAC950	S/P.
16EAC300	S/P.
16EAC400	S/P.
16EAC550	S/P.
16EAC650	S/P.
16EAC750	S/P.
16EAC950	S/P.
20EAC300	S/P.
20EAC400	S/P.
20EAC550	S/P.



Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
20EAC650	661	8.11	724	810	650	105
20EAC750	761	9.34	724	910	750	105
20EAC950	961	11.80	724	1110	950	105
24EAC300	376	4.61	877	460	300	105
24EAC400	497	6.10	877	560	400	105
24EAC550	678	8.33	877	710	550	105
24EAC650	798	9.82	877	810	650	105
24EAC750	921	11.30	877	910	750	105
24EAC950	1163	14.28	877	1110	950	105
28EAC300	440	5.40	1029	460	300	105
28EAC400	581	7.15	1029	560	400	105
28EAC550	795	9.77	1029	710	550	105
28EAC650	938	11.52	1029	810	650	105
28EAC750	1079	13.27	1029	910	750	105
28EAC950	1364	16.76	1029	1110	950	105

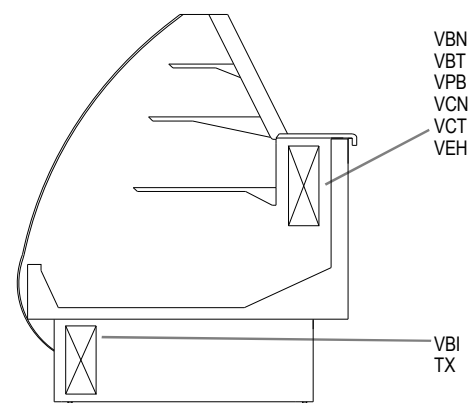
Modelo Type	Preço Price EUR
20EAC650	S/P.
20EAC750	S/P.
20EAC950	S/P.
24EAC300	S/P.
24EAC400	S/P.
24EAC550	S/P.
24EAC650	S/P.
24EAC750	S/P.
24EAC950	S/P.
28EAC300	S/P.
28EAC400	S/P.
28EAC550	S/P.
28EAC650	S/P.
28EAC750	S/P.
28EAC950	S/P.

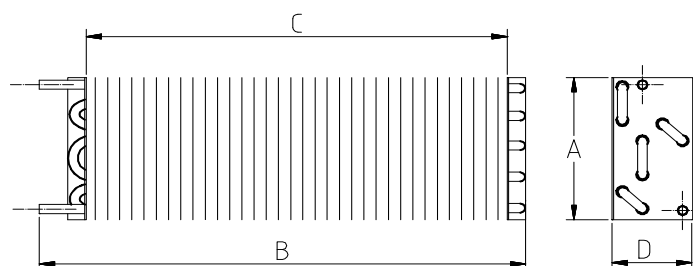


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
			mm			
4TX620	63	0.68	115	620	520	79
4TX720	76	0.81	115	720	620	79
4TX800	86	0.92	115	800	700	79
4TX1100	121	1.31	115	1100	1000	79
4TX1200	134	1.44	115	1200	1100	79
4TX1400	158	1.70	115	1400	1300	79
4TX1700	194	2.09	115	1700	1600	79
4TX2000	231	2.49	115	2000	1900	79
4TX2230	259	2.79	115	2230	2130	79
4TX2300	267	2.88	115	2300	2200	79
4TX2600	305	3.27	115	2600	2500	79
4TX2750	323	3.47	115	2750	2650	79
4TX3250	384	4.12	115	3250	3150	79
4TX3750	444	4.78	115	3750	3650	79
6TX620	85	0.91	153	620	520	79
6TX720	100	1.08	153	720	620	79
6TX800	114	1.23	153	800	700	79
6TX1100	163	1.75	153	1100	1000	79
6TX1200	179	1.92	153	1200	1100	79
6TX1400	212	2.27	153	1400	1300	79
6TX1700	259	2.79	153	1700	1600	79
6TX2000	309	3.32	153	2000	1900	79
6TX2230	347	3.72	153	2230	2130	79
6TX2300	357	3.84	153	2300	2200	79
6TX2600	406	4.36	153	2600	2500	79
6TX2750	430	4.63	153	2750	2650	79
6TX3250	510	5.49	153	3250	3150	79
6TX3650	593	6.37	153	3750	3650	79

Modelo Type	Prego Price
	EUR
4TX620	S/P.
4TX720	S/P.
4TX800	S/P.
4TX1100	S/P.
4TX1200	S/P.
4TX1400	S/P.
4TX1700	S/P.
4TX2000	S/P.
4TX2230	S/P.
4TX2300	S/P.
4TX2600	S/P.
4TX2750	S/P.
4TX3250	S/P.
4TX3750	S/P.
6TX620	S/P.
6TX720	S/P.
6TX800	S/P.
6TX1100	S/P.
6TX1200	S/P.
6TX1400	S/P.
6TX1700	S/P.
6TX2000	S/P.
6TX2230	S/P.
6TX2300	S/P.
6TX2600	S/P.
6TX2750	S/P.
6TX3250	S/P.
6TX3650	S/P.

Aplicações Applications

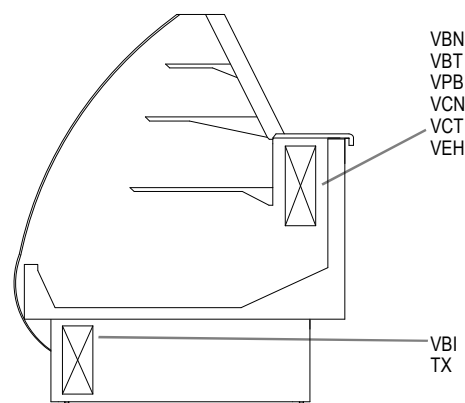


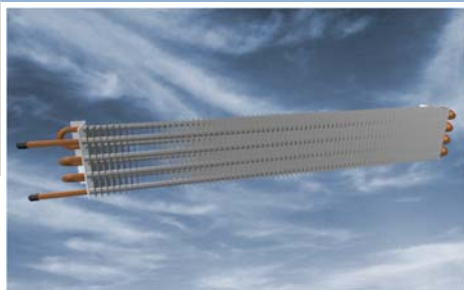


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
8TX620	106	1.13	191	620	520	79
8TX720	126	1.35	191	720	620	79
8TX800	143	1.54	191	800	700	79
8TX1100	205	2.19	191	1100	1000	79
8TX1200	223	2.49	191	1200	1100	79
8TX1400	264	2.84	191	1400	1300	79
8TX1700	324	3.49	191	1700	1600	79
8TX2000	386	4.15	191	2000	1900	79
8TX2230	433	4.65	191	2230	2130	79
8TX2300	448	4.81	191	2300	2200	79
8TX2600	507	5.45	191	2600	2500	79
8TX2750	538	5.79	191	2750	2650	79
8TX3250	640	6.87	191	3250	3150	79
8TX3750	742	7.97	191	3750	3650	79
10TX620	127	1.36	229	620	520	79
10TX720	151	1.62	229	720	620	79
10TX800	171	1.84	229	800	700	79
10TX1100	244	2.62	229	1100	1000	79
10TX1200	267	2.88	229	1200	1100	79
10TX1400	316	3.40	229	1400	1300	79
10TX1700	390	4.18	229	1700	1600	79
10TX2000	463	4.98	229	2000	1900	79
10TX2230	519	5.58	229	2230	2130	79
10TX2300	536	5.76	229	2300	2200	79
10TX2600	608	6.54	229	2600	2500	79
10TX2750	645	6.94	229	2750	2650	79
10TX3250	766	8.24	229	3250	3150	79
10TX3750	890	9.56	229	3750	3650	79

Modelo Type	Preço Price
	EUR
8TX620	S/P.
8TX720	S/P.
8TX800	S/P.
8TX1100	S/P.
8TX1200	S/P.
8TX1400	S/P.
8TX1700	S/P.
8TX2000	S/P.
8TX2230	S/P.
8TX2300	S/P.
8TX2600	S/P.
8TX2750	S/P.
8TX3250	S/P.
8TX3750	S/P.
10TX620	S/P.
10TX720	S/P.
10TX800	S/P.
10TX1100	S/P.
10TX1200	S/P.
10TX1400	S/P.
10TX1700	S/P.
10TX2000	S/P.
10TX2230	S/P.
10TX2300	S/P.
10TX2600	S/P.
10TX2750	S/P.
10TX3250	S/P.
10TX3750	S/P.

Aplicações Applications





Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface	Dimensões Dimensions				Peso Weight			
	A	B	C	D	Permutador Coil	Permutador com apara pingos normal Coil with normal drip tray	Perm. com apar. pingos reforçado Coil with reinf. drip tray	Resistências Heaters		
W	m ²	mm				Kg				
10ECT10	545	7.94	503	1180	1020	150	5.4	15.1	18.4	1.3
10ECT13	703	10.25	503	1480	1320	150	7.0	17.7	21.6	1.6
10ECT15	809	11.80	503	1680	1520	150	8.0	21.5	25.9	1.8
10ECT17	923	13.46	503	1895	1735	150	9.2	23.4	28.2	2.1
10ECT20	1101	16.05	503	2230	2070	150	11.0	26.3	31.8	2.5
10ECT23	1242	18.09	503	2495	2335	150	12.4	30.7	36.8	2.8
10ECT26	1400	20.41	503	2795	2635	150	14.0	33.3	40.1	3.2
10ECT30	1631	23.77	503	3230	3070	150	16.3	37.0	44.7	3.6
10ECT36	1930	28.13	503	3795	3635	150	19.2	43.9	53.0	4.4
12ECT10	665	9.69	580	1180	1020	150	6.5	17.3	22.1	1.3
12ECT13	859	12.53	580	1480	1320	150	8.4	20.4	26.0	1.6
12ECT15	988	14.41	580	1680	1520	150	9.7	24.7	31.1	1.8
12ECT17	1128	16.44	580	1895	1735	150	11.1	26.9	33.9	2.1
12ECT20	1345	19.60	580	2230	2070	150	13.2	30.4	38.3	2.5
12ECT23	1516	22.10	580	2495	2335	150	14.9	35.3	44.2	2.8
12ECT26	1709	24.93	580	2795	2635	150	16.8	38.4	48.1	3.2
12ECT30	1991	29.00	580	3230	3070	150	19.6	42.9	53.8	3.6
12ECT36	2358	34.40	580	3795	3635	150	23.2	51.0	63.7	4.4

Modelo Type	Preço Price EUR	Opções Options		
		Apara pingos normal Normal drip tray	Apara pingos reforçado Reinf. drip tray	Resistências Heaters
10ECT10	S/P.	S/P.	S/P.	S/P.
10ECT13	S/P.	S/P.	S/P.	S/P.
10ECT15	S/P.	S/P.	S/P.	S/P.
10ECT17	S/P.	S/P.	S/P.	S/P.
10ECT20	S/P.	S/P.	S/P.	S/P.
10ECT23	S/P.	S/P.	S/P.	S/P.
10ECT26	S/P.	S/P.	S/P.	S/P.
10ECT30	S/P.	S/P.	S/P.	S/P.
10ECT36	S/P.	S/P.	S/P.	S/P.
12ECT10	S/P.	S/P.	S/P.	S/P.
12ECT13	S/P.	S/P.	S/P.	S/P.
12ECT15	S/P.	S/P.	S/P.	S/P.
12ECT17	S/P.	S/P.	S/P.	S/P.
12ECT20	S/P.	S/P.	S/P.	S/P.
12ECT23	S/P.	S/P.	S/P.	S/P.
12ECT26	S/P.	S/P.	S/P.	S/P.
12ECT30	S/P.	S/P.	S/P.	S/P.
12ECT36	S/P.	S/P.	S/P.	S/P.

Tabela selecção rápida

Quick selection table

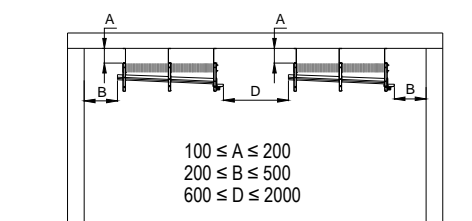
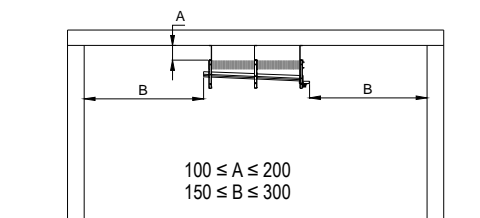
Temperatura da câmara TC = 0/+2°C

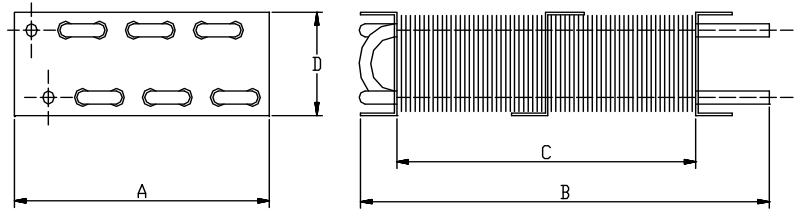
Chamber temperature TC = 0/+2°C

m ²	W	m ²
3.5 - 4	545	7.5
4.5 - 5	660	9.5
5 - 6	790	12.0
6 - 7	920	13.6
7 - 8	990	14.4
8 - 9	1130	16.0
9 - 10	1280	19.4
10 - 11	1395	20.4
11 - 13	1455	22.0
12 - 14	1570	23.5
13 - 15	1630	24.5
14 - 16	1745	26.0
15 - 17	1920	29.0
17 - 19	2095	30.0
19 - 22	2325	34.0
24 - 28	2790	39.0
28 - 32	3140	44.0
35 - 40	3720	53.0
40 - 46	4300	59.0
43 - 49	4650	65.0

Valores práticos para implementação dos "ECT" (medidas em mm)

Functional dimensions for "ECT" application (dimensions in mm)

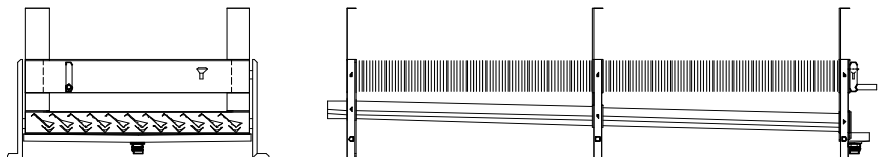




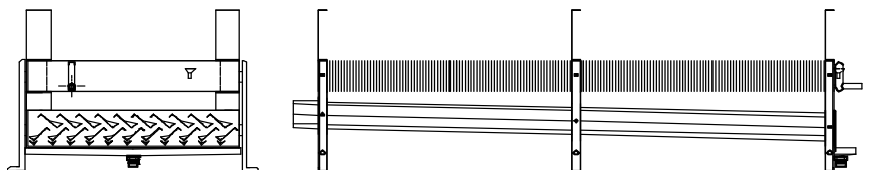
Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C) W	Superfície Surface m ²	Dimensões Dimensions A B C D				Peso Weight			
							Permutor Coil	Permutor com apar pingos normal Coil with normal drip tray	Perm. com apar. pingos reforçado Coil with reinf. drip tray	Resistências Heaters
			mm				Kg			
14ECT10	786	11.45	656	1180	1020	150	7.7	19.6	25.9	1.3
14ECT13	1015	14.80	656	1480	1320	150	10.0	23.2	30.5	1.6
14ECT15	1169	17.03	656	1680	1520	150	11.5	28.0	36.5	1.8
14ECT17	1332	19.42	656	1895	1735	150	13.1	30.6	39.8	2.1
14ECT20	1589	23.16	656	2230	2070	150	15.6	34.7	44.9	2.5
14ECT23	1792	26.11	656	2495	2335	150	17.6	40.2	51.9	2.8
14ECT26	2021	29.45	656	2795	2635	150	19.9	43.8	56.5	3.2
14ECT30	2353	34.30	656	3230	3070	150	23.2	49.2	63.1	3.6
14ECT36	2786	40.69	656	3795	3635	150	27.4	58.3	74.7	4.4
16ECT10	907	13.21	732	1180	1020	150	8.8	21.8	29.6	1.3
16ECT13	1171	17.07	732	1480	1320	150	11.4	26.0	34.8	1.6
16ECT15	1348	19.64	732	1680	1520	150	13.1	31.1	41.7	1.8
16ECT17	1537	22.41	732	1895	1735	150	15.0	34.1	45.4	2.1
16ECT20	1833	26.71	732	2230	2070	150	17.9	38.8	51.3	2.5
16ECT23	2066	30.12	732	2495	2335	150	20.1	44.8	59.3	2.8
16ECT26	2330	33.90	732	2795	2635	150	22.7	49.0	64.5	3.2
16ECT30	2715	39.57	732	3230	3070	150	26.5	55.1	72.1	3.6
16ECT36	3213	46.84	732	3795	3635	150	31.4	65.3	85.3	4.4

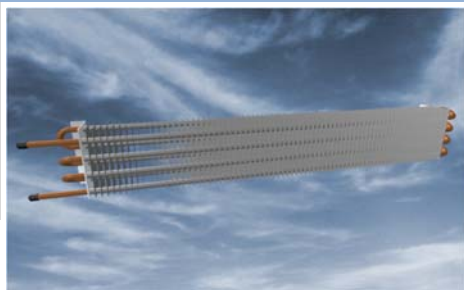
Modelo Type	Preço Price EUR	Opções Options		
		Apara pingos normal Normal drip tray	Apara pingos reforçado Reinf. drip tray	Resistências Heaters
14ECT10	S/P.	S/P.	S/P.	S/P.
14ECT13	S/P.	S/P.	S/P.	S/P.
14ECT15	S/P.	S/P.	S/P.	S/P.
14ECT17	S/P.	S/P.	S/P.	S/P.
14ECT20	S/P.	S/P.	S/P.	S/P.
14ECT23	S/P.	S/P.	S/P.	S/P.
14ECT26	S/P.	S/P.	S/P.	S/P.
14ECT30	S/P.	S/P.	S/P.	S/P.
14ECT36	S/P.	S/P.	S/P.	S/P.
16ECT10	S/P.	S/P.	S/P.	S/P.
16ECT13	S/P.	S/P.	S/P.	S/P.
16ECT15	S/P.	S/P.	S/P.	S/P.
16ECT17	S/P.	S/P.	S/P.	S/P.
16ECT20	S/P.	S/P.	S/P.	S/P.
16ECT23	S/P.	S/P.	S/P.	S/P.
16ECT26	S/P.	S/P.	S/P.	S/P.
16ECT30	S/P.	S/P.	S/P.	S/P.
16ECT36	S/P.	S/P.	S/P.	S/P.

Apara pingos normal Normal Drip Tray (Tc > +2°C)



Apara pingos reforçado Reinforced Drip Tray (0°C < Tc < +2°C)





Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface	Dimensões Dimensions				Peso Weight			
	A	B	C	D	Permutador Coil	Permutador com apar. pingos normal Coil with normal drip tray	Perm. com apar. pingos reforçado Coil with reinf. drip tray	Resistências Heaters		
W	m ²	mm				Kg				
18ECT10	1028	14.97	808	1180	1020	150	9.9	24.0	33.2	1.3
18ECT13	1327	19.34	808	1480	1320	150	12.8	28.7	39.2	1.6
18ECT15	1527	22.26	808	1680	1520	150	14.8	34.2	46.9	1.8
18ECT17	1742	25.39	808	1895	1735	150	16.8	37.6	51.1	2.1
18ECT20	2077	30.27	808	2230	2070	150	20.1	42.9	57.7	2.5
18ECT23	2342	34.13	808	2495	2335	150	22.7	49.5	66.7	2.8
18ECT26	2642	38.50	808	2795	2635	150	25.6	54.2	72.6	3.2
18ECT30	3077	44.84	808	3230	3070	150	29.8	61.0	81.1	3.6
18ECT36	3642	53.07	808	3795	3635	150	35.3	72.3	96.0	4.4
20ECT10	1148	16.73	884	1180	1020	150	11.1	26.3	37.0	1.3
20ECT13	1484	21.62	884	1480	1320	150	14.4	31.5	43.6	1.6
20ECT15	1707	24.87	884	1680	1520	150	16.5	37.5	52.3	1.8
20ECT17	1946	28.37	884	1895	1735	150	18.9	41.3	57.0	2.1
20ECT20	2320	33.83	884	2230	2070	150	22.5	47.2	64.3	2.5
20ECT23	2616	38.14	884	2495	2335	150	25.4	54.3	74.4	2.8
20ECT26	2952	43.00	884	2795	2635	150	28.7	59.6	80.9	3.2
20ECT30	3438	50.10	884	3230	3070	150	33.4	67.2	90.4	3.6
20ECT36	4069	59.31	884	3795	3635	150	39.6	79.6	107.0	4.4

Modelo Type	Preço Price EUR	Opções Options		
		Apara pingos normal Normal drip tray	Apara pingos reforçado Reinf. drip tray	Resistências Heaters
		EUR		
18ECT10	S/P.	S/P.	S/P.	S/P.
18ECT13	S/P.	S/P.	S/P.	S/P.
18ECT15	S/P.	S/P.	S/P.	S/P.
18ECT17	S/P.	S/P.	S/P.	S/P.
18ECT20	S/P.	S/P.	S/P.	S/P.
18ECT23	S/P.	S/P.	S/P.	S/P.
18ECT26	S/P.	S/P.	S/P.	S/P.
18ECT30	S/P.	S/P.	S/P.	S/P.
18ECT36	S/P.	S/P.	S/P.	S/P.
20ECT10	S/P.	S/P.	S/P.	S/P.
20ECT13	S/P.	S/P.	S/P.	S/P.
20ECT15	S/P.	S/P.	S/P.	S/P.
20ECT17	S/P.	S/P.	S/P.	S/P.
20ECT20	S/P.	S/P.	S/P.	S/P.
20ECT23	S/P.	S/P.	S/P.	S/P.
20ECT26	S/P.	S/P.	S/P.	S/P.
20ECT30	S/P.	S/P.	S/P.	S/P.
20ECT36	S/P.	S/P.	S/P.	S/P.

Tabela selecção rápida

Quick selection table

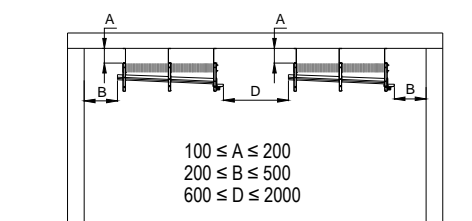
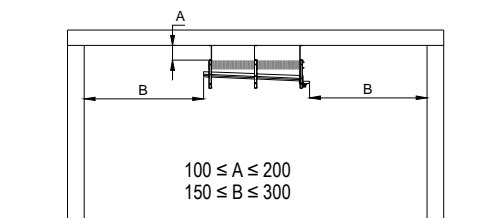
Temperatura da câmara TC = 0/+2°C

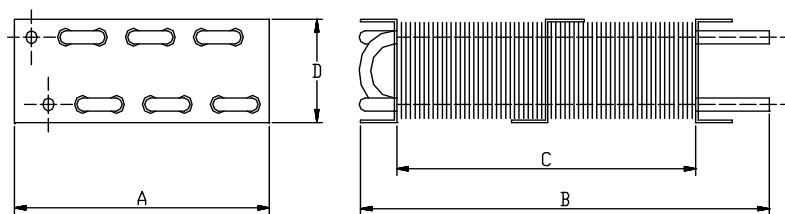
Chamber temperature TC = 0/+2°C

m ²	W	m ²
3.5 - 4	545	7.5
4.5 - 5	660	9.5
5 - 6	790	12.0
6 - 7	920	13.6
7 - 8	990	14.4
8 - 9	1130	16.0
9 - 10	1280	19.4
10 - 11	1395	20.4
11 - 13	1455	22.0
12 - 14	1570	23.5
13 - 15	1630	24.5
14 - 16	1745	26.0
15 - 17	1920	29.0
17 - 19	2095	30.0
19 - 22	2325	34.0
24 - 28	2790	39.0
28 - 32	3140	44.0
35 - 40	3720	53.0
40 - 46	4300	59.0
43 - 49	4650	65.0

Valores práticos para implementação dos "ECT" (medidas em mm)

Functional dimensions for "ECT" application (dimensions in mm)





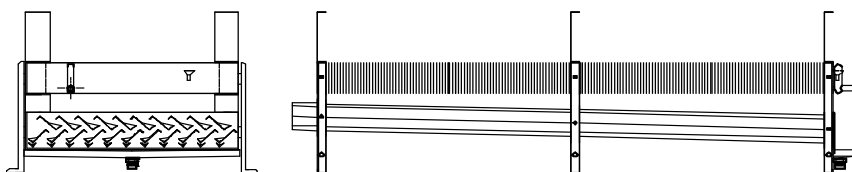
Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C) W	Superfície Surface m ²	Dimensões Dimensions				Peso Weight			
							Permutador Coil	Permutador com apara pingos normal Coil with normal drip tray	Perm. com apara. pingos reforçado Coil with reinf. drip tray	Resistências Heaters
			A	B	C	D	Kg			
22ECT10	1269	18.49	960	1180	1020	150	12.2	28.4	40.7	1.3
22ECT13	1640	23.89	960	1480	1320	150	15.8	34.2	48.0	1.6
22ECT15	1886	27.49	960	1680	1520	150	18.2	40.7	57.5	1.8
22ECT17	2151	31.35	960	1895	1735	150	20.8	44.8	62.7	2.1
22ECT20	2565	37.38	960	2230	2070	150	24.8	51.3	70.7	2.5
22ECT23	2892	42.15	960	2495	2335	150	27.9	59.0	81.8	2.8
22ECT26	3263	47.55	960	2795	2635	150	31.5	64.8	89.0	3.2
22ECT30	3800	55.38	960	3230	3070	150	36.7	73.2	99.4	3.6
22ECT36	4496	65.54	960	3795	3635	150	43.5	86.6	117.7	4.4

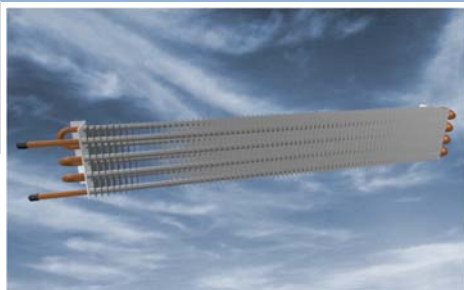
Modelo Type	Preço Price EUR	Opções Options		
		Apara pingos normal Normal drip tray	Apara pingos reforçado Reinf. drip tray	Resistências Heaters
22ECT10	S/P.	S/P.	S/P.	S/P.
22ECT13	S/P.	S/P.	S/P.	S/P.
22ECT15	S/P.	S/P.	S/P.	S/P.
22ECT17	S/P.	S/P.	S/P.	S/P.
22ECT20	S/P.	S/P.	S/P.	S/P.
22ECT23	S/P.	S/P.	S/P.	S/P.
22ECT26	S/P.	S/P.	S/P.	S/P.
22ECT30	S/P.	S/P.	S/P.	S/P.
22ECT36	S/P.	S/P.	S/P.	S/P.

Apara pingos normal Normal Drip Tray (Tc > +2°C)



Apara pingos reforçado Reinforced Drip Tray (0°C < Tc < +2°C)

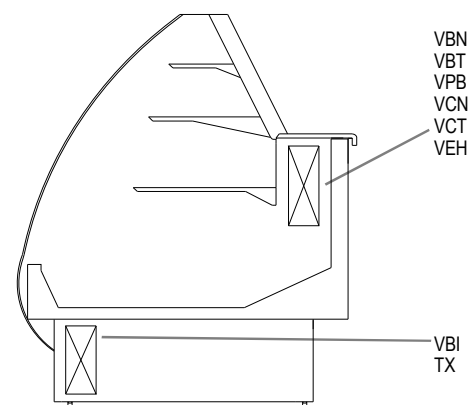


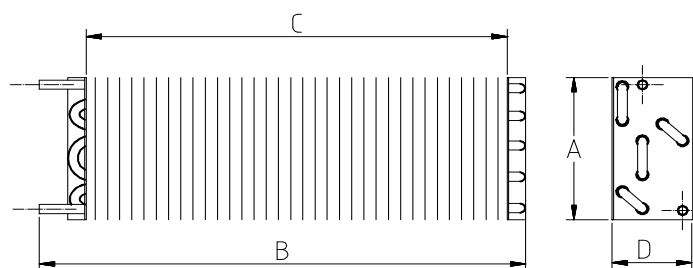


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
6VEH7	186	2.49	148	830	690	100
6VEH11	302	4.07	148	1275	1135	100
6VEH16	435	5.84	148	1775	1635	100
6VEH21	567	7.62	148	2275	2135	100
6VEH26	698	9.39	148	2775	2635	100
6VEH31	830	11.17	148	3275	3135	100
6VEH36	963	12.94	148	3775	3635	100
8VEH7	248	3.32	198	830	690	100
8VEH11	405	5.43	198	1275	1135	100
8VEH16	579	7.79	198	1775	1635	100
8VEH21	756	10.16	198	2275	2135	100
8VEH26	930	12.53	198	2775	2635	100
8VEH31	1105	14.89	198	3275	3135	100
8VEH36	1279	17.26	198	3775	3635	100
10VEH7	309	4.15	247	830	690	100
10VEH11	505	6.78	247	1275	1135	100
10VEH16	726	9.74	247	1775	1635	100
10VEH21	945	12.70	247	2275	2135	100

Modelo Type	Preço Price EUR
6VEH7	S/P.
6VEH11	S/P.
6VEH16	S/P.
6VEH21	S/P.
6VEH26	S/P.
6VEH31	S/P.
6VEH36	S/P.
8VEH7	S/P.
8VEH11	S/P.
8VEH16	S/P.
8VEH21	S/P.
8VEH26	S/P.
8VEH31	S/P.
8VEH36	S/P.
10VEH7	S/P.
10VEH11	S/P.
10VEH16	S/P.
10VEH21	S/P.

Aplicações Applications

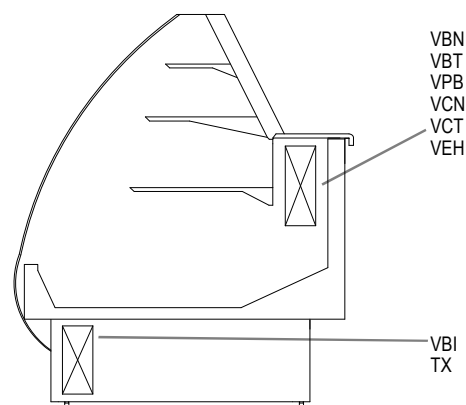


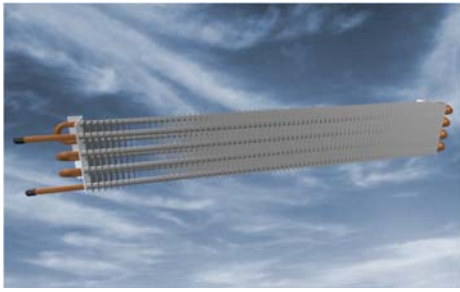


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
10VEH26	1163	15.66	247	2775	2635	100
10VEH31	1384	18.62	247	3275	3135	100
10VEH36	1605	21.58	247	3775	3635	100
12VEH7	371	4.98	296	830	690	100
12VEH11	606	8.14	296	1275	1135	100
12VEH16	870	11.69	296	1775	1635	100
12VEH21	1135	15.24	296	2275	2135	100
12VEH26	1395	18.79	296	2775	2635	100
12VEH31	1663	22.34	296	3275	3135	100
12VEH36	1926	25.89	296	3775	3635	100
14VEH7	433	5.81	346	830	690	100
14VEH11	707	9.50	346	1275	1135	100
14VEH16	1015	13.64	346	1775	1635	100
14VEH21	1323	17.78	346	2275	2135	100
14VEH26	1628	21.92	346	2775	2635	100
14VEH31	1939	26.06	346	3275	3135	100
14VEH36	2248	30.21	346	3775	3635	100

Modelo Type	Preço Price EUR
10VEH26	S/P.
10VEH31	S/P.
10VEH36	S/P.
12VEH7	S/P.
12VEH11	S/P.
12VEH16	S/P.
12VEH21	S/P.
12VEH26	S/P.
12VEH31	S/P.
12VEH36	S/P.
14VEH7	S/P.
14VEH11	S/P.
14VEH16	S/P.
14VEH21	S/P.
14VEH26	S/P.
14VEH31	S/P.
14VEH36	S/P.

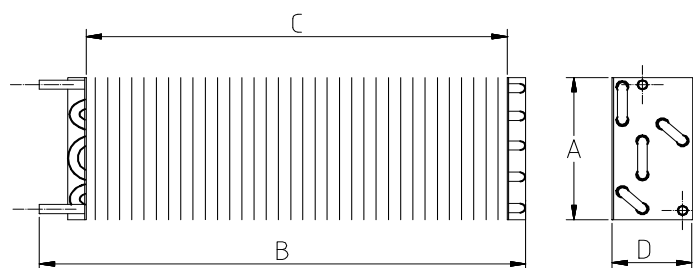
Aplicações Applications





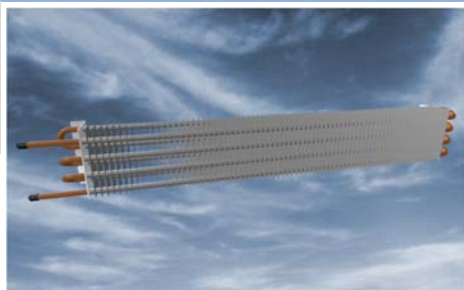
Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
4BEH6	88	0.95	99	690	590	79
4BEH7	100	1.10	99	790	690	79
4BEH11	166	1.80	99	1235	1135	79
4BEH16	236	2.59	99	1735	1635	79
4BEH21	308	3.38	99	2235	2135	79
4BEH26	384	4.17	99	2735	2635	79
4BEH31	453	4.96	99	3235	3135	79
4BEH36	535	5.74	99	3735	3635	79
6BEH6	130	1.42	148	690	590	79
6BEH7	152	1.66	148	790	690	79
6BEH11	249	2.71	148	1235	1135	79
6BEH16	358	3.89	148	1735	1635	79
6BEH21	465	5.07	148	2235	2135	79
6BEH26	574	6.25	148	2735	2635	79
6BEH31	684	7.44	148	3235	3135	79
6BEH36	792	8.62	148	3735	3635	79
8BEH6	174	1.89	198	690	590	79
8BEH7	203	2.21	198	790	690	79
8BEH11	331	3.61	198	1235	1135	79
8BEH16	477	5.19	198	1735	1635	79

Modelo Type	Preço Price EUR
4BEH6	S/P.
4BEH7	S/P.
4BEH11	S/P.
4BEH16	S/P.
4BEH21	S/P.
4BEH26	S/P.
4BEH31	S/P.
4BEH36	S/P.
6BEH6	S/P.
6BEH7	S/P.
6BEH11	S/P.
6BEH16	S/P.
6BEH21	S/P.
6BEH26	S/P.
6BEH31	S/P.
6BEH36	S/P.
8BEH6	S/P.
8BEH7	S/P.
8BEH11	S/P.
8BEH16	S/P.



Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
8BEH21	621	6.76	198	2235	2135	79
8BEH26	766	8.34	198	2735	2635	79
8BEH31	910	9.92	198	3235	3135	79
8BEH36	1056	11.49	198	3735	3635	79
10BEH6	217	2.37	247	690	590	79
10BEH7	253	2.76	247	790	690	79
10BEH11	415	4.52	247	1235	1135	79
10BEH16	595	6.49	247	1735	1635	79
10BEH21	777	8.45	247	2235	2135	79
10BEH26	958	10.42	247	2735	2635	79
10BEH31	1138	12.39	247	3235	3135	79
10BEH36	1319	14.36	247	3735	3635	79
12BEH6	262	2.84	296	690	590	79
12BEH7	305	3.32	296	790	690	79
12BEH11	498	5.42	296	1235	1135	79
12BEH16	715	7.78	296	1735	1635	79
12BEH21	933	10.14	296	2235	2135	79
12BEH26	1149	12.51	296	2735	2635	79
12BEH31	1366	14.87	296	3235	3135	79
12BEH36	1584	17.24	296	3735	3635	79

Modelo Type	Prego Price EUR
8BEH21	S/P.
8BEH26	S/P.
8BEH31	S/P.
8BEH36	S/P.
10BEH6	S/P.
10BEH7	S/P.
10BEH11	S/P.
10BEH16	S/P.
10BEH21	S/P.
10BEH26	S/P.
10BEH31	S/P.
10BEH36	S/P.
12BEH6	S/P.
12BEH7	S/P.
12BEH11	S/P.
12BEH16	S/P.
12BEH21	S/P.
12BEH26	S/P.
12BEH31	S/P.
12BEH36	S/P.

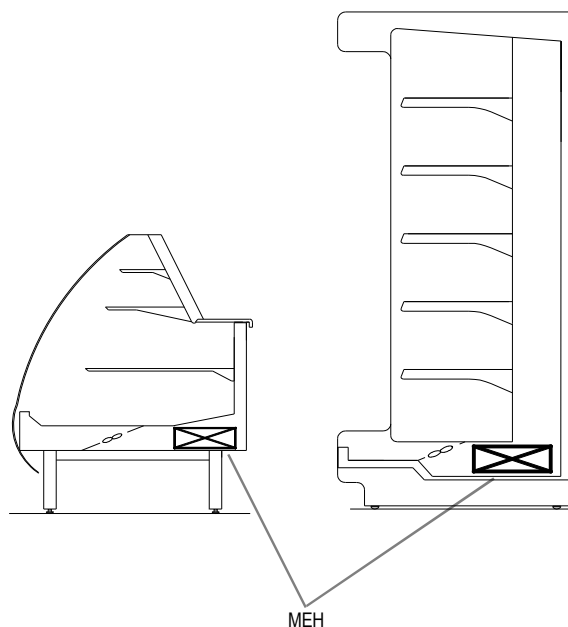


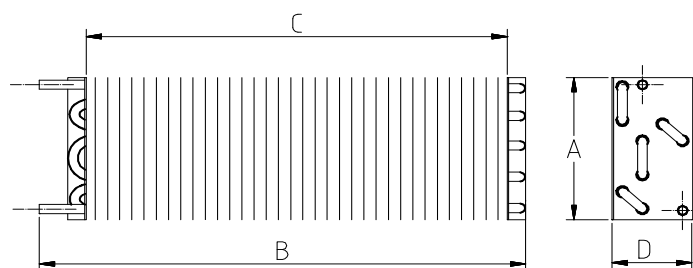
Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
			mm			
9MEH6	196	2.14	148	720	590	100
9MEH7	229	2.49	148	820	690	100
9MEH11	374	4.07	148	1265	1135	100
9MEH16	537	5.84	148	1765	1635	100
9MEH21	700	7.62	148	2265	2135	100
9MEH26	863	9.39	148	2765	2635	100
9MEH31	1026	11.16	148	3265	3135	100
9MEH36	1188	12.94	148	3765	3635	100
12MEH6	263	2.85	198	720	590	100
12MEH7	306	3.33	198	820	690	100
12MEH11	499	5.43	198	1265	1135	100
12MEH16	716	7.79	198	1765	1635	100
12MEH21	934	10.16	198	2265	2135	100
12MEH26	1151	12.52	198	2765	2635	100
12MEH31	1366	14.89	198	3265	3135	100
12MEH36	1584	17.52	198	3765	3635	100
15MEH6	328	3.56	247	720	590	100
15MEH7	381	4.15	247	820	690	100
15MEH11	623	6.79	247	1265	1135	100
15MEH16	895	9.74	247	1765	1635	100

Modelo Type	Preço Price EUR
9MEH6	S/P.
9MEH7	S/P.
9MEH11	S/P.
9MEH16	S/P.
9MEH21	S/P.
9MEH26	S/P.
9MEH31	S/P.
9MEH36	S/P.
12MEH6	S/P.
12MEH7	S/P.
12MEH11	S/P.
12MEH16	S/P.
12MEH21	S/P.
12MEH26	S/P.
12MEH31	S/P.
12MEH36	S/P.
15MEH6	S/P.
15MEH7	S/P.
15MEH11	S/P.
15MEH16	S/P.

Velocidade facial Face velocity m/s	Coefficiente de Transmissão "k" Transmission Coefficient "k"
0,20 - 0,30	7.8
0.40	8.5
0.50	10.0
0.60	11.8
0.70	12.2
0.85	14.0
1.25	15.8
1.50	16.8
1.90	17.0

Aplicações Applications



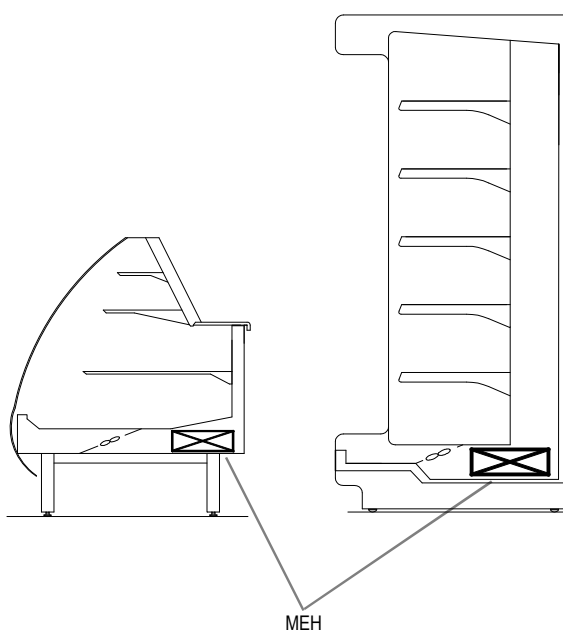


Modelo Type	Capacidade (DT=10°C) Capacity (DT=10°C)	Superfície Surface m ²	Dimensões Dimensions			
			A	B	C	D
	W		mm			
15MEH21	1166	12.70	247	2265	2135	100
15MEH26	1438	15.66	247	2765	2635	100
15MEH31	1709	18.61	247	3265	3135	100
15MEH36	1981	21.57	247	3765	3635	100
18MEH6	393	4.28	296	720	590	100
18MEH7	458	4.99	296	820	690	100
18MEH11	749	8.14	296	1265	1135	100
18MEH16	1074	11.69	296	1765	1635	100
18MEH21	1400	15.24	296	2265	2135	100
18MEH26	1726	18.78	296	2765	2635	100
18MEH31	2051	22.33	296	3265	3135	100
18MEH36	2378	25.88	296	3765	3635	100
21MEH6	459	4.99	346	720	590	100
21MEH7	535	5.82	346	820	690	100
21MEH11	873	9.50	346	1265	1135	100
21MEH16	1252	13.64	346	1765	1635	100
21MEH21	1634	17.77	346	2265	2135	100
21MEH26	2013	21.91	346	2765	2635	100
21MEH31	2393	26.01	346	3265	3135	100
21MEH36	2773	30.19	346	3765	3635	100

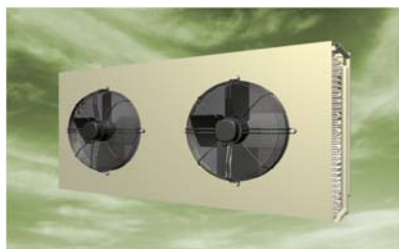
Modelo Type	Preço Price EUR
15MEH21	S/P.
15MEH26	S/P.
15MEH31	S/P.
15MEH36	S/P.
18MEH6	S/P.
18MEH7	S/P.
18MEH11	S/P.
18MEH16	S/P.
18MEH21	S/P.
18MEH26	S/P.
18MEH31	S/P.
18MEH36	S/P.
21MEH6	S/P.
21MEH7	S/P.
21MEH11	S/P.
21MEH16	S/P.
21MEH21	S/P.
21MEH26	S/P.
21MEH31	S/P.
21MEH36	S/P.

Velocidade facial Face velocity m/s	Coefficiente de Transmissão "k" Transmission Coefficient "k"
0,20 - 0,30	7.8
0.40	8.5
0.50	10.0
0.60	11.8
0.70	12.2
0.85	14.0
1.25	15.8
1.50	16.8
1.90	17.0

Aplicações Applications



SELECÇÃO RÁPIDA QUICK SELECTION



ACM



ACH



ACI

Modelo Type	4 Pólos 4 Poles (_ _ _ / E)						6 Pólos 6 Poles (_ _ _ / M)						8 Pólos 8 Poles (_ _ _ / R)					
	T		Y		S		T		Y		S		T		Y		S	
	Ruído Noise Level	Cap. DT=15°C	Ruído Noise Level	Cap. DT=15°C	Ruído Noise Level	Cap. DT=15°C	Ruído Noise Level	Cap. DT=15°C	Ruído Noise Level	Cap. DT=15°C	Ruído Noise Level	Cap. DT=15°C	Ruído Noise Level	Cap. DT=15°C	Ruído Noise Level	Cap. DT=15°C	Ruído Noise Level	Cap. DT=15°C
	dB(A)	kW	dB(A)	kW	dB(A)	kW	dB(A)	kW	dB(A)	kW	dB(A)	kW	dB(A)	kW	dB(A)	kW	dB(A)	kW

ACM

Pág. Page	102		102		104		104		104		104		104		104		104	
ACM 131/3.47				39	3.47													
ACM 131/4.40				39	4.40													
ACM 231/6.95				42	6.95													
ACM 231/9.05				42	9.05													
ACM 135/5.04				44	5.04						34	4.00						
ACM 135/6.02				44	6.02						34	4.58						
ACM 235/10.1				47	10.10						37	8.00						
ACM 235/11.6				47	11.63						37	8.86						
ACM 140/6.41				49	6.41						39	5.42						
ACM 140/8.25				49	8.25						39	6.59						
ACM 240/13.4				52	13.39						42	11.26						
ACM 240/16.5				52	16.50						42	13.18						
ACM 145/8.75	52	8.75									43	7.45						
ACM 145/11.0	52	11.01									43	9.15						
ACM 245/17.5	55	17.50									46	14.90						
ACM 245/21.8	55	21.80									46	18.15						
ACM 245/23.4	55	23.40									46	19.00						
ACM 150/15.7	44	15.65									34	12.30						
ACM 150/19.9	44	19.85									34	15.05						
ACM 150/22.5	44	22.47									34	16.70						
ACM 245/25.0	55	24.95									46	21.55						
ACM 245/29.5	55	29.50									46	24.50						
ACM 250/33.8	47	33.80									37	26.20						
ACM 250/45.1	47	45.10									37	33.80						
ACM 250/52.2	47	52.20									37	37.80						

ACH

Pág. Page	106		106		108		110		110		112		114		114		116	
ACH 150/18.9	44	18.90	40	17.54	43	18.48	34	14.60	31	13.55	35	14.60	27	11.55	24	10.40	28	11.55
ACH 150/24.4	44	24.36	40	22.16	43	23.73	34	18.06	31	16.49	35	18.06	27	13.86	24	12.50	28	13.86
ACH 150/27.4	44	27.41	40	24.57	43	26.46	34	19.85	31	17.96	35	19.85	27	14.81	24	13.13	28	14.81
ACH 250/35.5	47	35.49	43	32.87	46	34.65	37	27.51	34	25.62	38	27.51	30	21.84	27	19.85	31	21.84
ACH 250/47.4	47	47.36	43	43.16	46	46.10	37	35.49	34	32.45	38	35.49	30	27.30	27	24.78	31	27.30
ACH 250/54.8	47	54.81	43	49.25	46	53.03	37	39.69	34	35.91	38	39.69	30	29.72	27	26.25	31	29.72
ACH 350/57.0	49	57.02	45	52.92	48	55.76	39	44.21	36	40.95	40	44.21	32	34.86	29	31.61	33	34.86
ACH 350/71.0	49	70.98	45	64.79	48	69.20	39	53.34	36	48.62	40	53.34	32	40.95	29	37.17	33	40.95
ACH 350/82.4	49	82.43	45	74.03	48	79.80	39	59.43	36	53.87	40	59.43	32	44.52	29	39.27	33	44.52
ACH 450/98.5	50	98.49	46	89.36	49	95.87	40	72.98	37	66.36	41	72.98	33	55.65	30	50.40	34	55.65
ACH 450/110	50	109.62	46	98.60	49	106.16	40	79.38	37	71.93	41	79.38	33	59.43	30	52.50	34	59.43

ACI

Pág. Page	118		118		120		120		122		124		124		126	
ACI 163/38.6	47	38.64	41	34.44			37	31.50	32	25.94	38	29.19	31	25.94	26	20.69
ACI 163/46.6	47	46.62	41	39.90			37	36.96	32	30.24	38	34.44	31	30.24	26	23.84
ACI 163/54.5	47	54.50	41	45.47			37	42.00	32	32.97	38	38.64	31	32.97	26	25.41
ACI 263/77.5	50	77.49	44	67.83			40	63.00	35	51.98	41	58.38	34	51.98	29	41.37
ACI 263/96.9	50	96.92	44	82.01			40	75.81	35	61.64	41	70.46	34	61.64	29	48.30
ACI 263/112	50	112.04	44	92.72			40	85.26	35	66.57	41	78.12	34	66.57	29	51.03
ACI 363/116	52	115.61	46	97.86			42	91.25	37	76.02	43	84.95	36	76.02	31	61.01
ACI 363/153	52	153.09	46	128.63			42	118.34	37	95.24	43	109.52	36	95.24	31	73.92
ACI 363/171	52	170.52	46	140.91			42	129.57	37	101.01	43	118.76	36	101.01	31	77.39
ACI 363/182	52	181.86	46	148.16			42	135.35	37	104.69	43	124.11	36	104.69	31	79.28
ACI 463/194	53	193.94	47	164.12			43	151.83	38	123.38	44	141.12	37	123.38	32	96.71
ACI 463/218	53	218.19	47	182.18			43	168.11	38	132.20	44	154.56	37	132.20	32	101.96
ACI 563/250	54	249.69	48	210.11			44	193.73	39	156.56	45	179.55	38	156.56	33	122.12
ACI 563/279	54	278.99	48	231.53			44	213.36	39	166.95	45	195.72	38	166.95	33	128.21



ACP / ACJ

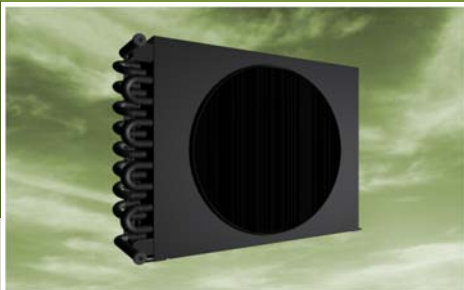


ACPD



VAC

Modelo Type	6 Pólos 6 Poles (_ _ _ / M)				8 Pólos 8 Poles (_ _ _ / R)				12 Pólos 12 Poles (_ _ _ / L)				16 Pólos 16 Poles (_ _ _ / N)			
	T		Y		T		Y		T		Y		T		Y	
	Ruído Noise Level dB(A)	Cap. DT=15°C kW	Ruído Noise Level dB(A)	Cap. DT=15°C kW	Ruído Noise Level dB(A)	Cap. DT=15°C kW	Ruído Noise Level dB(A)	Cap. DT=15°C kW	Ruído Noise Level dB(A)	Cap. DT=15°C kW	Ruído Noise Level dB(A)	Cap. DT=15°C kW	Ruído Noise Level dB(A)	Cap. DT=15°C kW	Ruído Noise Level dB(A)	Cap. DT=15°C kW
ACP																
Pág. Page	128		128		130		130		132		132		134		134	
ACP 280/103	46	102.90	42	98.70	41	95.03	35	80.75	30	68.78	25	58.38	28	58.38	19	44.63
ACP 280/140	46	139.65	42	119.28	41	114.77	35	95.13	30	80.54	25	67.31	28	67.31	19	49.77
ACP 280/156	46	155.93	42	130.31	41	125.16	35	101.22	30	85.58	25	70.56	28	70.56	19	50.82
ACP 380/162	48	162.23	44	142.49	43	136.61	37	116.76	32	100.17	27	85.58	30	85.58	21	66.26
ACP 380/202	48	201.71	44	173.25	43	166.85	37	139.34	32	118.55	27	99.54	30	99.54	21	74.03
ACP 380/226	48	226.28	44	190.89	43	183.33	37	149.42	32	126.95	27	104.90	30	104.90	21	76.02
ACP 480/280	49	279.93	45	238.77	44	229.74	38	190.47	33	161.07	28	134.61	31	134.61	22	99.44
ACP 480/311	49	311.33	45	260.61	44	250.01	38	202.34	33	171.26	28	141.02	31	141.02	22	101.66
ACP 480/329	49	328.86	45	271.53	44	259.14	38	205.28	33	175.25	28	139.55	31	139.55	22	101.85
ACPD																
Pág. Page	136		136		138		138		140		140		142		142	
ACPD 680/325	51	324.45	47	284.97	46	273.21	40	233.52	35	200.34	30	171.15	33	171.15	24	132.51
ACPD 680/403	51	403.41	47	346.50	46	333.69	40	278.67	35	237.09	30	199.08	33	199.08	24	148.05
ACPD 680/453	51	452.55	47	381.78	46	366.66	40	298.83	35	253.89	30	209.79	33	209.79	24	152.04
ACPD 880/560	52	559.86	48	477.54	47	459.48	41	380.94	36	322.14	31	269.22	34	269.22	25	198.87
ACPD 880/623	52	622.65	48	521.22	47	500.01	41	404.67	36	342.51	31	282.03	34	282.03	25	203.32
ACPD 880/658	52	657.72	48	543.06	47	518.28	41	410.55	36	350.49	31	279.09	34	279.09	25	204.75
ACJ																
Pág. Page	144		144		146		146		148		148					
ACJ 291/132	51	132.20	45	120.23	42	120.23	36	102.17	31	88.94	24	71.61				
ACJ 291/172	51	171.68	45	144.27	42	144.27	36	119.28	31	104.06	24	81.48				
ACJ 291/190	51	190.16	45	156.56	42	156.56	36	126.63	31	109.41	24	83.58				
ACJ 391/199	53	199.19	47	173.15	44	173.15	38	148.16	33	129.68	26	105.11				
ACJ 391/248	53	247.91	47	210.11	44	210.11	38	175.14	33	153.20	26	120.65				
ACJ 391/277	53	277.31	47	229.95	44	229.95	38	187.11	33	162.23	26	124.53				
ACJ 491/344	54	343.77	48	288.54	45	288.54	39	238.88	34	208.11	27	162.96				
ACJ 491/380	54	380.21	48	313.11	45	313.11	39	253.26	34	218.93	27	167.16				
ACJ 491/401	54	400.58	48	322.14	45	322.14	39	256.73	34	223.23	27	168.00				
VAC																
Pág. Page	150		150		152		152		154		154					
VAC 291/132	52	132.10	47	115.00	43	115.00	37	98.20	33	85.60	24	70.40				
VAC 291/173	52	172.60	47	145.00	43	145.00	37	120.30	33	103.50	24	82.10				
VAC 391/209	54	209.00	49	182.00	45	182.00	39	154.10	35	133.10	26	108.60				
VAC 391/258	54	258.00	49	217.00	45	217.00	39	180.40	35	155.20	26	123.10				
VAC 491/264	55	264.00	50	230.00	46	230.00	40	196.60	36	171.10	27	141.00				
VAC 491/329	55	328.50	50	279.00	46	279.00	40	233.60	36	202.20	27	161.60				
VAC 591/343	56	343.20	51	296.00	47	296.00	41	251.60	37	218.00	28	178.70				
VAC 591/421	56	421.00	51	356.00	47	356.00	41	296.60	37	256.00	28	203.50				
VAC 691/420	57	420.00	52	364.00	48	364.00	42	308.10	38	266.10	29	217.30				
VAC 691/517	57	517.00	52	435.00	48	435.00	42	360.50	38	310.50	29	246.30				
VACD																
Pág. Page	156		156		158		158		160		160					
VACD 491/281	55	281.00	50	235.00	46	235.00	40	193.70	36	171.30	27	130.90				
VACD 491/313	55	313.00	50	253.00	46	253.00	40	204.50	36	179.60	27	135.10				
VACD 691/422	57	422.00	52	353.00	48	353.00	42	290.60	38	257.00	29	196.30				
VACD 691/469	57	469.00	52	380.00	48	380.00	42	306.80	38	269.30	29	202.70				
VACD 891/531	58	531.00	53	449.00	49	449.00	43	374.00	39	332.80	30	256.60				
VACD 891/598	58	598.00	53	490.00	49	490.00	43	399.50	39	352.20	30	267.20				
VACD 1091/686	59	686.00	54	576.00	50	576.00	44	476.70	40	422.60	31	324.20				
VACD 1091/766	59	766.00	54	623.00	50	623.00	44	505.80	40	445.00	31	336.00				
VACD 1291/844	60	844.00	55	707.00	51	707.00	45	581.70	41	514.40	32	392.60				
VACD 1291/938	60	938.00	55	760.00	51	760.00	45	613.60	41	539.00	32	405.50				



Modelo Type	Referência O.E.M. O.E.M. Reference	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	
		kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	
AC	115/0.17	0.17	0.36	0.07	1	154	190	1300	32	0.20	230/1/50	
AC	115/0.30	0.30	0.72	0.15	1	154	170	1300	32	0.20	230/1/50	
AC	117/0.24	0.24	0.51	0.10	1	172	280	1300	32	0.20	230/1/50	
AC	117/0.44	0.44	1.02	0.20	1	172	250	1300	32	0.20	230/1/50	
AC	120/0.59	0.59	1.28	0.24	1	200	370	1300	35	0.21	230/1/50	
AC	117/0.47	0.47	1.11	0.21	1	172	260	1300	32	0.20	230/1/50	
AC	117/0.50	0.50	1.28	0.24	1	172	280	1300	32	0.20	230/1/50	
AC	120/0.68	0.68	1.59	0.29	1	200	400	1300	35	0.21	230/1/50	
AC	120/0.88	0.88	2.38	0.43	1	200	370	1300	35	0.21	230/1/50	
AC	120/1.09	1.09	3.17	0.58	1	200	350	1300	35	0.21	230/1/50	
AC	123/1.26	1.26	2.84	0.51	1	230	540	1300	36	0.25	230/1/50	
AC	123/1.50	1.50	3.79	0.68	1	230	500	1300	36	0.25	230/1/50	
AC	125/1.68	1.68	3.27	0.59	1	254	750	1300	73	0.52	230/1/50	
AC	125/2.00	2.00	4.37	0.79	1	254	700	1300	73	0.52	230/1/50	
AC	130/2.69	2.69	5.20	0.90	1	300	1125	1300	95	0.68	230/1/50	
AC	130/2.95	2.95	6.94	1.30	1	300	1050	1300	95	0.68	230/1/50	
AC	130/3.35	3.35	8.68	1.60	1	300	1000	1300	95	0.68	230/1/50	
AC	220/1.79	1.79	4.76	0.84	2	200	740	1300	70	0.42	230/1/50	
AC	220/2.15	2.15	6.34	1.09	2	200	700	1300	70	0.42	230/1/50	
AC	223/2.97	2.97	7.58	1.29	2	230	1000	1300	72	0.50	230/1/50	
AC	225/3.99	3.99	8.74	1.51	2	254	1400	1300	146	1.04	230/1/50	
AC	230/5.38	5.38	10.04	1.94	2	300	2250	1300	190	1.36	230/1/50	
AC	230/6.27	6.27	13.88	2.49	2	300	2100	1300	190	1.36	230/1/50	
AC	230/6.73	6.73	17.35	3.13	2	300	2000	1300	190	1.36	230/1/50	

Modelo Type	Referência O.E.M. O.E.M. Reference	Preço Price			Opções Options		
		AC	ACB	AC/E	Alheta revestida Coated fins	Pintado Painted	
		EUR			EUR		
AC	115/0.17	S/P.	S/P.		S/P.		
AC	115/0.30	S/P.	S/P.		S/P.		
AC	117/0.24	S/P.	S/P.		S/P.		
AC	117/0.44	S/P.	S/P.		S/P.		
AC	120/0.59	S/P.	S/P.		S/P.		
AC	117/0.47	S/P.	S/P.		S/P.		
AC	117/0.50	S/P.	S/P.		S/P.		
AC	120/0.68	S/P.	S/P.		S/P.		
AC	120/0.88	S/P.	S/P.		S/P.		
AC	120/1.09	S/P.	S/P.		S/P.		
AC	123/1.26	S/P.	S/P.		S/P.		
AC	123/1.50	S/P.	S/P.		S/P.		
AC	125/1.68	S/P.	S/P.		S/P.		
AC	125/2.00	S/P.	S/P.		S/P.		
AC	130/2.69	S/P.	S/P.		S/P.		
AC	130/2.95	S/P.	S/P.		S/P.		
AC	130/3.35	S/P.	S/P.		S/P.		
AC	220/1.79	S/P.	S/P.		S/P.		
AC	220/2.15	S/P.	S/P.		S/P.		
AC	223/2.97	S/P.	S/P.		S/P.		
AC	225/3.99	S/P.	S/P.		S/P.		
AC	230/5.38	S/P.	S/P.		S/P.		
AC	230/6.27	S/P.	S/P.		S/P.		
AC	230/6.73	S/P.	S/P.		S/P.		

Tabelas selecção Rápida Quick Selection Table		
Vol. Deslocado Comp. Displacement R404A	Modelo Type (T.E - 10°C)	Modelo Type (T.E - 25°C)
cm ³		
10.3	AC 123/1.26	AC 125/1.68
12.9	AC 125/1.68	AC 125/2.00
15.3	AC 125/2.00	AC 130/2.69
17.7	AC 130/2.69	AC 130/2.95
20.6	AC 130/2.95	AC 130/3.35
25.8	AC 130/3.35	AC 225/3.99
30.6	AC 225/3.99	AC 225/3.99
31.4	AC 225/3.99	AC 230/6.27

Terminologia

T_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

T_E - Evaporating temperature

TD - Temperature difference

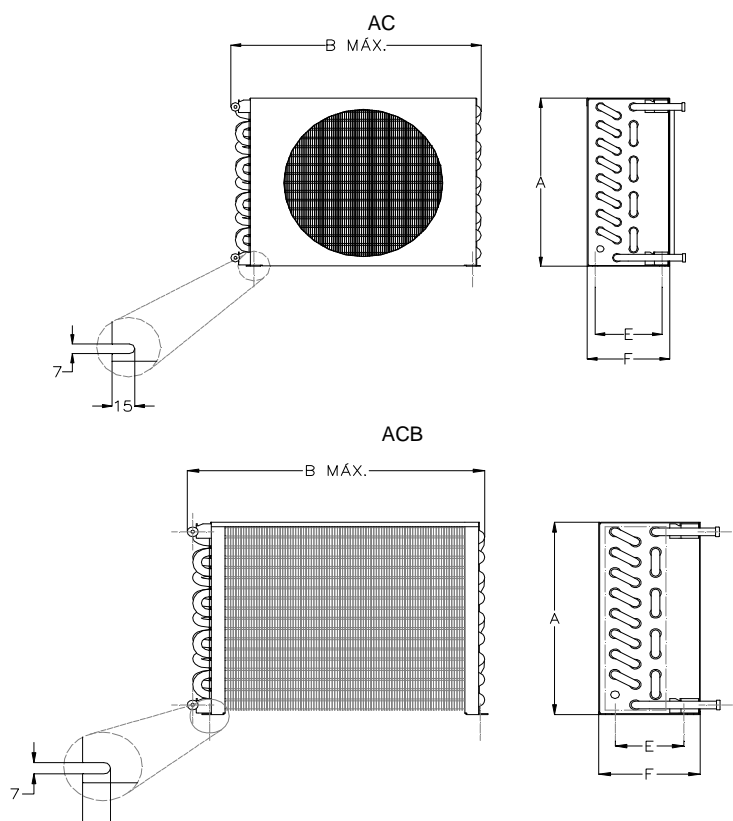
AC - Condensadores com gola e sem motor
AC - Condenser with plates and without motor

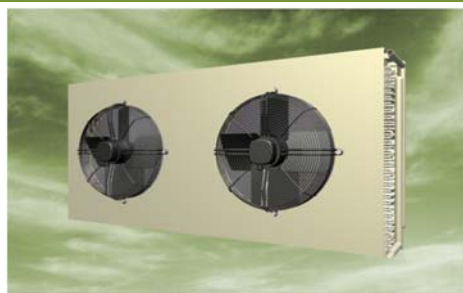
ACB - Condensadores sem gola e sem motor
ACB - Condenser only end plates and top plates

AC/E - Condensadores com gola e com motor
AC/E - Condenser with plates and fan motor

	Ligações Connections		Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type		
	Entrada Inlet	Saída Outlet									
	A	B	E	F	Referência O.E.M. O.E.M. reference						
	in	in	mm				Kg	dm ³			
	5/16	5/16	165	248	51	71	1.1	3.41	AC	115/0.17	16
	5/16	5/16	165	248	51	71	1.4	3.41	AC	115/0.30	26
	5/16	5/16	190	288	75	100	1.3	6.18	AC	117/0.24	17
	5/16	5/16	190	288	75	100	1.7	6.18	AC	117/0.44	27
	5/16	5/16	217	312	75	100	2.1	7.62	AC	120/0.59	28
	5/16	5/16	190	312	75	100	1.9	6.69	AC	117/0.47	207
	5/16	5/16	217	312	75	100	2.2	7.62	AC	117/0.50	208
	5/16	5/16	240	332	89	110	2.4	9.76	AC	120/0.68	209
	5/16	5/16	240	332	89	110	3.0	9.76	AC	120/0.88	309
	5/16	5/16	240	332	126	149	3.8	12.93	AC	120/1.09	409
	5/16	5/16	268	352	89	110	3.4	11.53	AC	123/1.26	310
	5/16	5/16	268	352	126	149	4.4	15.28	AC	123/1.50	410
	5/16	5/16	295	372	89	110	3.9	13.39	AC	125/1.68	311
	5/16	5/16	295	372	126	149	5.0	17.75	AC	125/2.00	411
	5/16	5/16	372	442	126	149	6.3	26.97	AC	130/2.69	314
	1/2	1/2	372	450	126	149	7.5	26.97	AC	130/2.95	414
	1/2	1/2	372	450	126	162	8.7	29.18	AC	130/3.35	514
	1/2	1/2	240	600	89	110	5.2	17.64	AC	220/1.79	609
	1/2	1/2	240	600	126	149	6.6	23.37	AC	220/2.15	809
	1/2	1/2	268	640	126	149	7.6	27.78	AC	223/2.97	810
	1/2	1/2	295	680	126	149	8.7	32.44	AC	225/3.99	811
	1/2	1/2	372	820	126	149	10.9	49.15	AC	230/5.38	614
	1/2	1/2	372	820	126	149	13.1	49.15	AC	230/6.27	814
	5/8	1/2	372	820	126	162	15.1	53.17	AC	230/6.73	1014

Tabelas selecção Rápida Quick Selection Table		
Vol. Deslocado Comp. Displacement R134A cm ³	Modelo Type (T.E - 10°C)	
3.13	AC 117/0.47	
3.86	AC 117/0.50	
5.08	AC 120/0.68	
6.24	AC 120/0.88	
6.93	AC 120/1.09	
7.95	AC 120/1.09	
9.05	AC 123/1.26	
11.15	AC 123/1.50	
12.90	AC 125/1.68	
15.30	AC 125/2.00	
17.70	AC 130/2.69	
20.95	AC 130/2.69	
25.80	AC 130/3.35	
30.60	AC 225/3.99	
35.40	AC 225/3.99	
41.90	AC 230/5.38	





	Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído Noise level	
		kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
ACM/E	131/3.47S	3.47	5.63	0.80	1	315	1550	1410	102	0.52	230/1/50	39	
ACM/E	131/4.40S	4.40	8.40	1.20	1	315	1400	1410	102	0.52	230/1/50	39	
ACM/E	231/6.95S	6.95	11.25	1.50	2	315	3100	1410	204	1.04	230/1/50	42	
ACM/E	231/9.05S	9.05	16.90	2.40	2	315	2800	1410	204	1.04	230/1/50	42	
ACM/E	135/5.04S	5.04	7.91	1.10	1	350	2150	1400	130	0.58	230/1/50	44	
ACM/E	135/6.02S	6.02	11.90	1.70	1	350	1900	1400	130	0.58	230/1/50	44	
ACM/E	235/10.1S	10.10	15.80	2.20	2	350	4300	1400	260	1.16	230/1/50	47	
ACM/E	235/11.6S	11.63	23.60	3.30	2	350	3800	1400	260	1.16	230/1/50	47	
ACM/E	140/6.41S	6.41	10.20	1.40	1	400	2900	1430	160	0.73	230/1/50	49	
ACM/E	140/8.25S	8.25	15.20	2.10	1	400	2600	1430	160	0.73	230/1/50	49	
ACM/E	240/13.4S	13.39	20.30	2.70	2	400	5800	1430	320	1.46	230/1/50	52	
ACM/E	240/16.5S	16.50	30.40	4.10	2	400	5200	1430	320	1.46	230/1/50	52	
ACM/E	145/8.75T	8.75	13.40	1.90	1	450	3700	1380	200	0.48	Y 400/3/50	52	
ACM/E	145/11.0T	11.01	20.10	2.80	1	450	3500	1380	200	0.48	Y 400/3/50	52	
ACM/E	245/17.5T	17.50	26.70	3.70	2	450	7400	1380	400	0.96	Y 400/3/50	55	
ACM/E	245/21.8T	21.80	40.10	5.60	2	450	7000	1380	400	0.96	Y 400/3/50	55	
ACM/E	245/23.4T	23.40	53.50	7.40	2	450	6400	1380	400	0.96	Y 400/3/50	55	
ACM/E	150/15.7T	15.65	22.70	3.20	1	500	7200	1390	720	1.41	Δ 400/3/50	44	
ACM/E	150/19.9T	19.85	34.10	4.80	1	500	6800	1390	720	1.41	Δ 400/3/50	44	
ACM/E	150/22.5T	22.47	45.40	6.40	1	500	6300	1390	720	1.41	Δ 400/3/50	44	
ACM/E	245/25.0T	24.95	63.74	9.30	2	450	8100	1380	400	0.96	Y 400/3/50	55	
ACM/E	245/29.5T	29.50	84.98	12.40	2	450	7600	1380	400	0.96	Y 400/3/50	55	
ACM/E	250/33.8T	33.80	72.80	6.90	2	500	13900	1390	1440	2.82	Δ 400/3/50	47	
ACM/E	250/45.1T	45.10	109.60	11.50	2	500	13200	1390	1440	2.82	Δ 400/3/50	47	
ACM/E	250/52.2T	52.20	146.10	15.40	2	500	12700	1390	1440	2.82	Δ 400/3/50	47	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Pintado Painted
	EUR	EUR	
ACM/E	131/3.47S	S/P.	S/P.
ACM/E	131/4.40S	S/P.	S/P.
ACM/E	231/6.95S	S/P.	S/P.
ACM/E	231/9.05S	S/P.	S/P.
ACM/E	135/5.04S	S/P.	S/P.
ACM/E	135/6.02S	S/P.	S/P.
ACM/E	235/10.1S	S/P.	S/P.
ACM/E	235/11.6S	S/P.	S/P.
ACM/E	140/6.41S	S/P.	S/P.
ACM/E	140/8.25S	S/P.	S/P.
ACM/E	240/13.4S	S/P.	S/P.
ACM/E	240/16.5S	S/P.	S/P.
ACM/E	145/8.75T	S/P.	S/P.
ACM/E	145/11.0T	S/P.	S/P.
ACM/E	245/17.5T	S/P.	S/P.
ACM/E	245/21.8T	S/P.	S/P.
ACM/E	245/23.4T	S/P.	S/P.
ACM/E	150/15.7T	S/P.	S/P.
ACM/E	150/19.9T	S/P.	S/P.
ACM/E	150/22.5T	S/P.	S/P.
ACM/E	245/25.0T	S/P.	S/P.
ACM/E	245/29.5T	S/P.	S/P.
ACM/E	250/33.8T	S/P.	S/P.
ACM/E	250/45.1T	S/P.	S/P.
ACM/E	250/52.2T	S/P.	S/P.

Standard

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open			Open			Open			Open			Open	
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressorP_{abs} - Potência absorvida do compressorT_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

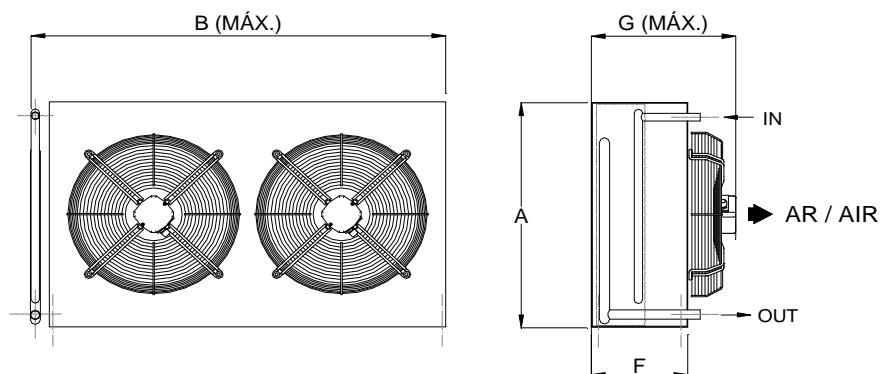
CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacityP_{abs} - Compressor absorbed powerT_E - Evaporating temperature

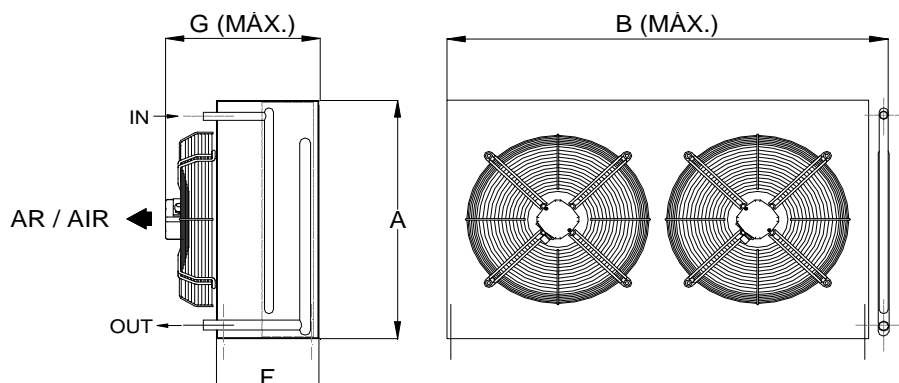
TD - Temperature difference

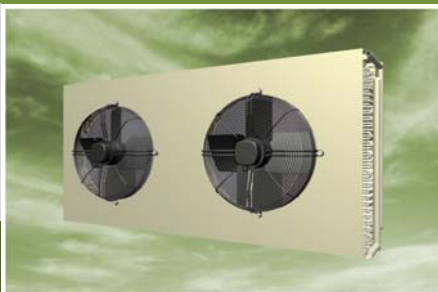
	Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Tubo Tube	Entrada Inlet	Saída Outlet	A	B	F	G			
				mm				Kg	m ³	
	3/8	1/2	1/2	417	465	220	350	16	0.13	ACM/E 131/3.47S
	3/8	1/2	1/2	417	465	220	350	18	0.13	ACM/E 131/4.40S
	3/8	5/8	1/2	417	830	220	350	28	0.21	ACM/E 231/6.95S
	3/8	5/8	1/2	417	830	220	350	31	0.21	ACM/E 231/9.05S
	3/8	5/8	1/2	468	560	220	350	21	0.17	ACM/E 135/5.04S
	3/8	5/8	1/2	468	560	220	350	23	0.17	ACM/E 135/6.02S
	3/8	3/4	5/8	468	1010	220	350	36	0.17	ACM/E 235/10.1S
	3/8	3/4	5/8	468	1010	220	350	40	0.17	ACM/E 235/11.6S
	3/8	5/8	1/2	519	630	220	365	24	0.21	ACM/E 140/6.41S
	3/8	5/8	1/2	519	630	220	365	27	0.21	ACM/E 140/8.25S
	3/8	7/8	3/4	519	1160	220	365	43	0.36	ACM/E 240/13.4S
	3/8	7/8	3/4	519	1160	220	365	48	0.36	ACM/E 240/16.5S
	3/8	5/8	1/2	620	685	260	415	32	0.26	ACM/E 145/8.75T
	3/8	3/4	5/8	620	685	260	415	35	0.26	ACM/E 145/11.0T
	3/8	7/8	3/4	620	1260	260	415	56	0.48	ACM/E 245/17.5T
	3/8	1 1/8	7/8	620	1260	260	415	63	0.48	ACM/E 245/21.8T
	3/8	1 1/8	7/8	620	1260	260	415	70	0.48	ACM/E 245/23.4T
	3/8	7/8	3/4	774	900	260	440	54	0.46	ACM/E 150/15.7T
	3/8	1 1/8	7/8	774	900	260	440	61	0.46	ACM/E 150/19.9T
	3/8	1 1/8	7/8	774	900	260	440	66	0.46	ACM/E 150/22.5T
	1/2	1 1/8	7/8	698	1260	280	460	78	0.51	ACM/E 245/25.0T
	1/2	1 1/8	7/8	698	1260	280	460	86	0.51	ACM/E 245/29.5T
	1/2	1 3/8	1 1/8	774	1790	280	490	104	0.97	ACM/E 250/33.8T
	1/2	1 3/8	1 1/8	774	1790	280	490	118	0.97	ACM/E 250/45.1T
	1/2	1 3/8	1 1/8	774	1790	280	490	132	0.97	ACM/E 250/52.2T

Tubo 3/8" 3/8" Tube



Tubo 1/2" 1/2" Tube





	Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído Noise level	
		kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
ACM/M	135/5.04S	4.00	7.91	1.10	1	350	1500	945	65	0.31	230/1/50	34	
ACM/M	135/6.02S	4.58	11.90	1.70	1	350	1300	945	65	0.31	230/1/50	34	
ACM/M	235/10.1S	8.00	15.80	2.20	2	350	3000	945	130	0.62	230/1/50	37	
ACM/M	235/11.6S	8.86	23.60	3.30	2	350	2600	945	130	0.62	230/1/50	37	
ACM/M	140/6.41S	5.42	10.20	1.40	1	400	2200	940	120	0.55	230/1/50	39	
ACM/M	140/8.25S	6.59	15.20	2.10	1	400	1900	940	120	0.55	230/1/50	39	
ACM/M	240/13.4S	11.26	20.30	2.70	2	400	4400	940	240	1.10	230/1/50	42	
ACM/M	240/16.5S	13.18	30.40	4.10	2	400	3800	940	240	1.10	230/1/50	42	
ACM/M	145/8.75S	7.45	13.40	1.90	1	450	2900	930	165	0.80	230/1/50	43	
ACM/M	145/11.0S	9.15	20.10	2.80	1	450	2700	930	165	0.80	230/1/50	43	
ACM/M	245/17.5S	14.90	26.70	3.70	2	450	5800	930	330	1.60	230/1/50	46	
ACM/M	245/21.8S	18.15	40.10	5.60	2	450	5400	930	330	1.60	230/1/50	46	
ACM/M	245/23.4S	19.00	53.50	7.40	2	450	4900	930	330	1.60	230/1/50	46	
ACM/M	150/15.7S	12.30	22.70	3.20	1	500	4800	915	270	1.18	230/1/50	34	
ACM/M	150/19.9S	15.05	34.10	4.80	1	500	4500	915	270	1.18	230/1/50	34	
ACM/M	150/22.5S	16.70	45.40	6.40	1	500	4250	915	270	1.18	230/1/50	34	
ACM/M	245/25.0S	21.55	63.74	9.30	2	450	6500	930	330	1.60	230/1/50	46	
ACM/M	245/29.5S	24.50	84.98	12.40	2	450	6000	930	330	1.60	230/1/50	46	
ACM/M	250/33.8S	26.20	72.80	6.90	2	500	9200	915	540	2.36	230/1/50	37	
ACM/M	250/45.1S	33.80	109.60	11.50	2	500	8700	915	540	2.36	230/1/50	37	
ACM/M	250/52.2S	37.80	146.10	15.40	2	500	8400	915	540	2.36	230/1/50	37	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Pintado Painted
	EUR	EUR	
ACM/M	135/5.04S	S/P.	S/P.
ACM/M	135/6.02S	S/P.	S/P.
ACM/M	235/10.1S	S/P.	S/P.
ACM/M	235/11.6S	S/P.	S/P.
ACM/M	140/6.41S	S/P.	S/P.
ACM/M	140/8.25S	S/P.	S/P.
ACM/M	240/13.4S	S/P.	S/P.
ACM/M	240/16.5S	S/P.	S/P.
ACM/M	145/8.75S	S/P.	S/P.
ACM/M	145/11.0S	S/P.	S/P.
ACM/M	245/17.5S	S/P.	S/P.
ACM/M	245/21.8S	S/P.	S/P.
ACM/M	245/23.4S	S/P.	S/P.
ACM/M	150/15.7S	S/P.	S/P.
ACM/M	150/19.9S	S/P.	S/P.
ACM/M	150/22.5S	S/P.	S/P.
ACM/M	245/25.0S	S/P.	S/P.
ACM/M	245/29.5S	S/P.	S/P.
ACM/M	250/33.8S	S/P.	S/P.
ACM/M	250/45.1S	S/P.	S/P.
ACM/M	250/52.2S	S/P.	S/P.

Standard

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C		Open			Open			Open			Open			Open	
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressorP_{abs} - Potência absorvida do compressorT_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

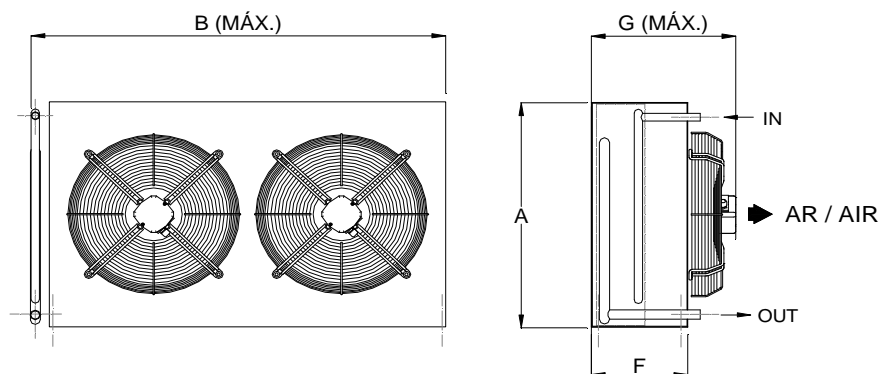
CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacityP_{abs} - Compressor absorbed powerT_E - Evaporating temperature

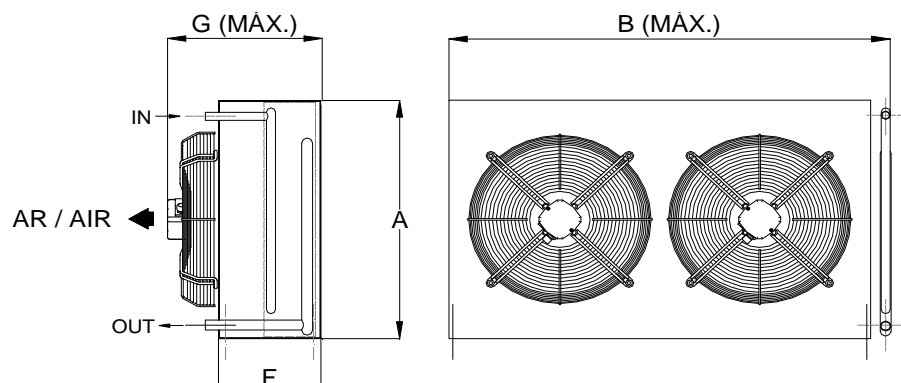
TD - Temperature difference

	Ligações Connections			Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Tubo Tube	Entrada Inlet	Saída Outlet	A	B	F	G			
				mm				Kg	m³	
	3/8	5/8	1/2	468	560	220	350	21	0.17	ACM/M 135/5.04S
	3/8	5/8	1/2	468	560	220	350	23	0.17	ACM/M 135/6.02S
	3/8	3/4	5/8	468	1010	220	350	36	0.17	ACM/M 235/10.1S
	3/8	3/4	5/8	468	1010	220	350	40	0.17	ACM/M 235/11.6S
	3/8	5/8	1/2	519	630	220	365	24	0.21	ACM/M 140/6.41S
	3/8	5/8	1/2	519	630	220	365	27	0.21	ACM/M 140/8.25S
	3/8	7/8	3/4	519	1160	220	365	43	0.36	ACM/M 240/13.4S
	3/8	7/8	3/4	519	1160	220	365	48	0.36	ACM/M 240/16.5S
	3/8	5/8	1/2	620	685	260	415	32	0.26	ACM/M 145/8.75S
	3/8	3/4	5/8	620	685	260	415	35	0.26	ACM/M 145/11.0S
	3/8	7/8	3/4	620	1260	260	415	56	0.48	ACM/M 245/17.5S
	3/8	1 1/8	7/8	620	1260	260	415	63	0.48	ACM/M 245/21.8S
	3/8	1 1/8	7/8	620	1260	260	415	70	0.48	ACM/M 245/23.4S
	3/8	7/8	3/4	774	900	260	440	54	0.46	ACM/M 150/15.7S
	3/8	1 1/8	7/8	774	900	260	440	61	0.46	ACM/M 150/19.9S
	3/8	1 1/8	7/8	774	900	260	440	66	0.46	ACM/M 150/22.5S
	1/2	1 1/8	7/8	698	1260	280	460	78	0.51	ACM/M 245/25.0S
	1/2	1 1/8	7/8	698	1260	280	460	86	0.51	ACM/M 245/29.5S
	1/2	1 3/8	1 1/8	774	1790	280	490	104	0.97	ACM/M 250/33.8S
	1/2	1 3/8	1 1/8	774	1790	280	490	118	0.97	ACM/M 250/45.1S
	1/2	1 3/8	1 1/8	774	1790	280	490	132	0.97	ACM/M 250/52.2S

Tubo 3/8" 3/8" Tube



Tubo 1/2" 1/2" Tube



ACH

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 500 mm



	Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído Noise level	
		kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
ACH/E	150/18.9T	18.90	36.40	3.50	1	500	7550	1390	720	1.41	Δ 400/3/50	44	
ACH/E	150/18.9Y	17.54	36.40	3.50	1	500	6600	1180	550	0.95	Y 400/3/50	40	
ACH/E	150/24.4T	24.36	54.70	5.40	1	500	7200	1390	720	1.41	Δ 400/3/50	44	
ACH/E	150/24.4Y	22.16	54.70	5.40	1	500	6250	1180	550	0.95	Y 400/3/50	40	
ACH/E	150/27.4T	27.41	73.10	7.70	1	500	6900	1390	720	1.41	Δ 400/3/50	44	
ACH/E	150/27.4Y	24.57	73.10	7.70	1	500	6000	1180	550	0.95	Y 400/3/50	40	
ACH/E	250/35.5T	35.49	72.80	6.90	2	500	15100	1390	1440	2.82	Δ 400/3/50	47	
ACH/E	250/35.5Y	32.87	72.80	6.90	2	500	13200	1180	1100	1.90	Y 400/3/50	43	
ACH/E	250/47.4T	47.36	109.60	11.50	2	500	14400	1390	1440	2.82	Δ 400/3/50	47	
ACH/E	250/47.4Y	43.16	109.60	11.50	2	500	12500	1180	1100	1.90	Y 400/3/50	43	
ACH/E	250/54.8T	54.81	146.10	15.40	2	500	13800	1390	1440	2.82	Δ 400/3/50	47	
ACH/E	250/54.8Y	49.25	146.10	15.40	2	500	12000	1180	1100	1.90	Y 400/3/50	43	
ACH/E	350/57.0T	57.02	109.60	11.50	3	500	22650	1390	2160	4.23	Δ 400/3/50	49	
ACH/E	350/57.0Y	52.92	109.60	11.50	3	500	19800	1180	1650	2.85	Y 400/3/50	45	
ACH/E	350/71.0T	70.98	164.40	17.30	3	500	21600	1390	2160	4.23	Δ 400/3/50	49	
ACH/E	350/71.0Y	64.79	164.40	17.30	3	500	18750	1180	1650	2.85	Y 400/3/50	45	
ACH/E	350/82.4T	82.43	219.20	23.00	3	500	20700	1390	2160	4.23	Δ 400/3/50	49	
ACH/E	350/82.4Y	74.03	219.20	23.00	3	500	18000	1180	1650	2.85	Y 400/3/50	45	
ACH/E	450/98.5T	98.49	219.20	23.00	4	500	28800	1390	2880	5.64	Δ 400/3/50	50	
ACH/E	450/98.5Y	89.36	219.20	23.00	4	500	25000	1180	2200	3.80	Y 400/3/50	46	
ACH/E	450/110T	109.62	292.20	30.70	4	500	27600	1390	2880	5.64	Δ 400/3/50	50	
ACH/E	450/110Y	98.60	292.20	30.70	4	500	24000	1180	2200	3.80	Y 400/3/50	46	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer Painted
	EUR	EUR	
ACH/E	150/18.9T	S/P.	S/P.
ACH/E	150/18.9Y	S/P.	S/P.
ACH/E	150/24.4T	S/P.	S/P.
ACH/E	150/24.4Y	S/P.	S/P.
ACH/E	150/27.4T	S/P.	S/P.
ACH/E	150/27.4Y	S/P.	S/P.
ACH/E	250/35.5T	S/P.	S/P.
ACH/E	250/35.5Y	S/P.	S/P.
ACH/E	250/47.4T	S/P.	S/P.
ACH/E	250/47.4Y	S/P.	S/P.
ACH/E	250/54.8T	S/P.	S/P.
ACH/E	250/54.8Y	S/P.	S/P.
ACH/E	350/57.0T	S/P.	S/P.
ACH/E	350/57.0Y	S/P.	S/P.
ACH/E	350/71.0T	S/P.	S/P.
ACH/E	350/71.0Y	S/P.	S/P.
ACH/E	350/82.4T	S/P.	S/P.
ACH/E	350/82.4Y	S/P.	S/P.
ACH/E	450/98.5T	S/P.	S/P.
ACH/E	450/98.5Y	S/P.	S/P.
ACH/E	450/110T	S/P.	S/P.
ACH/E	450/110Y	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open			Open			Open			Open			Open	
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

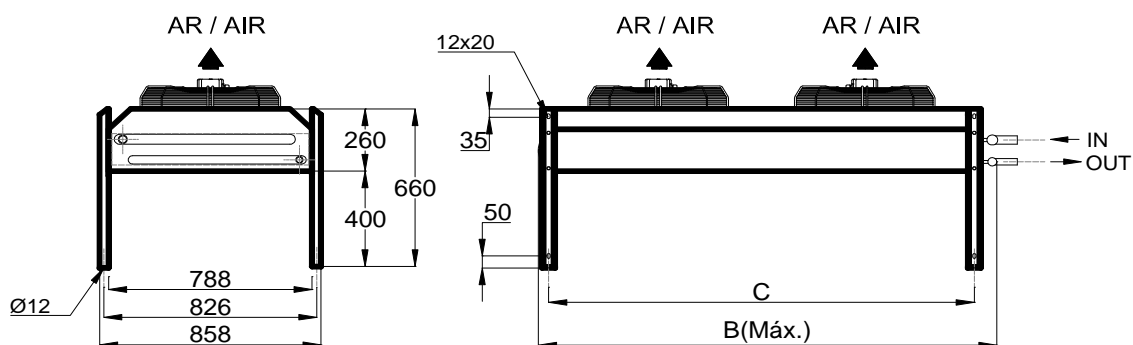
Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

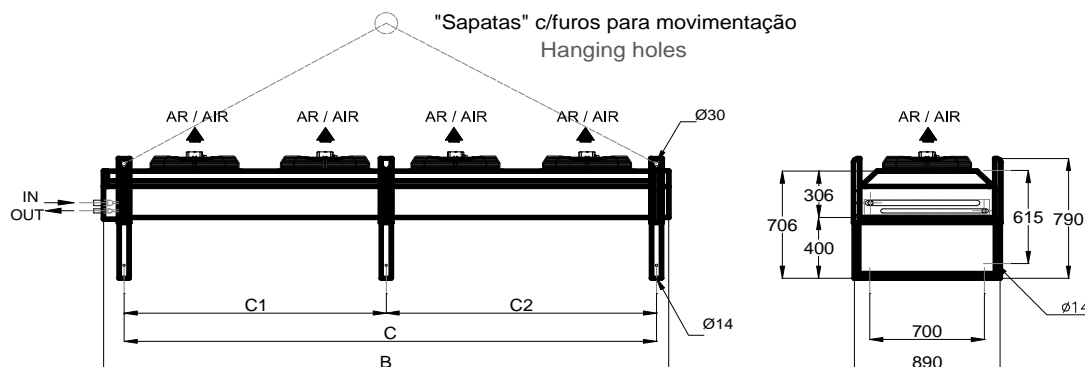
Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2			
	7/8	3/4	980	850	-	-	71	0.64	ACH/E 150/18.9T
	7/8	3/4	980	850	-	-	71	0.64	ACH/E 150/18.9Y
	1 1/8	7/8	980	850	-	-	79	0.64	ACH/E 150/24.4T
	1 1/8	7/8	980	850	-	-	79	0.64	ACH/E 150/24.4Y
	1 1/8	7/8	980	850	-	-	86	0.64	ACH/E 150/27.4T
	1 1/8	7/8	980	850	-	-	86	0.64	ACH/E 150/27.4Y
	1 3/8	1 1/8	1790	1650	-	-	118	1.12	ACH/E 250/35.5T
	1 3/8	1 1/8	1790	1650	-	-	118	1.12	ACH/E 250/35.5Y
	1 3/8	1 1/8	1790	1650	-	-	132	1.12	ACH/E 250/47.4T
	1 3/8	1 1/8	1790	1650	-	-	132	1.12	ACH/E 250/47.4Y
	1 3/8	1 1/8	1790	1650	-	-	145	1.12	ACH/E 250/54.8T
	1 3/8	1 1/8	1790	1650	-	-	145	1.12	ACH/E 250/54.8Y
	1 3/8	1 1/8	2605	2450	-	-	165	1.61	ACH/E 350/57.0T
	1 3/8	1 1/8	2605	2450	-	-	165	1.61	ACH/E 350/57.0Y
	1 5/8	1 3/8	2605	2450	-	-	186	1.61	ACH/E 350/71.0T
	1 5/8	1 3/8	2605	2450	-	-	186	1.61	ACH/E 350/71.0Y
	1 5/8	1 3/8	2605	2450	-	-	206	1.61	ACH/E 350/82.4T
	1 5/8	1 3/8	2605	2450	-	-	206	1.61	ACH/E 350/82.4Y
	1 5/8	1 3/8	3450	3250	1600	1650	299	2.40	ACH/E 450/98.5T
	1 5/8	1 3/8	3450	3250	1600	1650	299	2.40	ACH/E 450/98.5Y
	1 5/8	1 3/8	3450	3250	1600	1650	325	2.40	ACH/E 450/110T
	1 5/8	1 3/8	3450	3250	1600	1650	325	2.40	ACH/E 450/110Y

1 / 2 / 3 Ventiladores 1 / 2 / 3 Fans



4 Ventiladores 4 Fans



ACH

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 500 mm



Modelo Type		Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
		kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACH/E	150/18.9S	18.48	36.40	3.50	1	500	7250	1300	680	3.00	230/1/50	43	
ACH/E	150/24.4S	23.73	54.70	5.40	1	500	6900	1300	680	3.00	230/1/50	43	
ACH/E	150/27.4S	26.46	73.10	7.70	1	500	6600	1300	680	3.00	230/1/50	43	
ACH/E	250/35.5S	34.65	72.80	6.90	2	500	14500	1300	1360	6.00	230/1/50	46	
ACH/E	250/47.4S	46.10	109.60	11.50	2	500	13800	1300	1360	6.00	230/1/50	46	
ACH/E	250/54.8S	53.03	146.10	15.40	2	500	13200	1300	1360	6.00	230/1/50	46	
ACH/E	350/57.0S	55.76	109.60	11.50	3	500	21750	1300	2040	9.00	230/1/50	48	
ACH/E	350/71.0S	69.20	164.40	17.30	3	500	20700	1300	2040	9.00	230/1/50	48	
ACH/E	350/82.4S	79.80	219.20	23.00	3	500	19800	1300	2040	9.00	230/1/50	48	
ACH/E	450/98.5S	95.87	219.20	23.00	4	500	27600	1300	2720	12.00	230/1/50	49	
ACH/E	450/110S	106.16	292.20	30.70	4	500	26400	1300	2720	12.00	230/1/50	49	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer
		EUR	EUR
ACH/E 150/18.9S	S/P.	S/P.	Standard
ACH/E 150/24.4S	S/P.	S/P.	
ACH/E 150/27.4S	S/P.	S/P.	
ACH/E 250/35.5S	S/P.	S/P.	
ACH/E 250/47.4S	S/P.	S/P.	
ACH/E 250/54.8S	S/P.	S/P.	
ACH/E 350/57.0S	S/P.	S/P.	
ACH/E 350/71.0S	S/P.	S/P.	
ACH/E 350/82.4S	S/P.	S/P.	
ACH/E 450/98.5S	S/P.	S/P.	
ACH/E 450/110S	S/P.	S/P.	

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

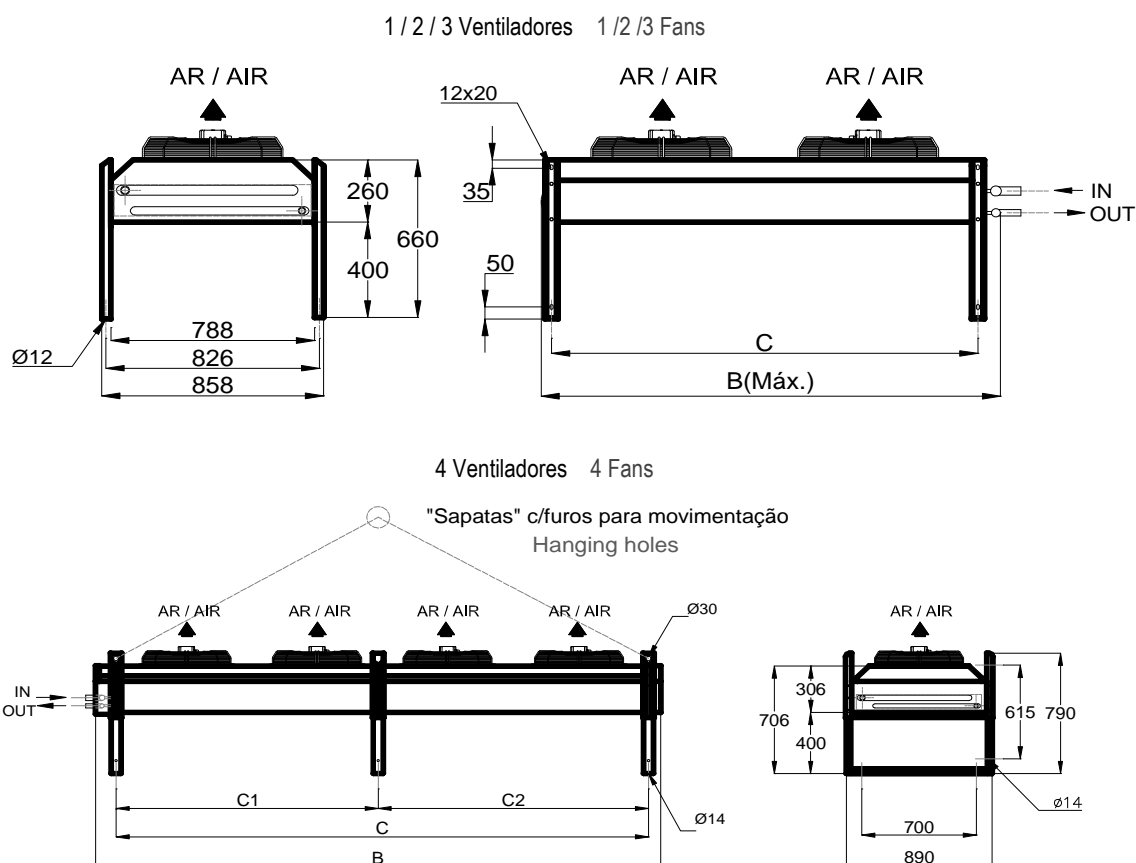
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet							
	B	C	C1	C2					
	in	in	mm				Kg	m ³	
	7/8	3/4	980	850	-	-	71	0.64	ACH/E 150/18.9S
	1 1/8	7/8	980	850	-	-	79	0.64	ACH/E 150/24.4S
	1 1/8	7/8	980	850	-	-	86	0.64	ACH/E 150/27.4S
	1 3/8	1 1/8	1790	1650	-	-	118	1.12	ACH/E 250/35.5S
	1 3/8	1 1/8	1790	1650	-	-	132	1.12	ACH/E 250/47.4S
	1 3/8	1 1/8	1790	1650	-	-	145	1.12	ACH/E 250/54.8S
	1 3/8	1 1/8	2605	2450	-	-	165	1.61	ACH/E 350/57.0S
	1 5/8	1 3/8	2605	2450	-	-	186	1.61	ACH/E 350/71.0S
	1 5/8	1 3/8	2605	2450	-	-	206	1.61	ACH/E 350/82.4S
	1 5/8	1 3/8	3450	3250	1600	1650	299	2.40	ACH/E 450/98.5S
	1 5/8	1 3/8	3450	3250	1600	1650	325	2.40	ACH/E 450/110S





Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans									
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído Noise level		
		kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACH/M	150/18.9T	14.60	36.40	3.50	1	500	5000	930	270	0.69	Δ 400/3/50	34	
ACH/M	150/18.9Y	13.55	36.40	3.50	1	500	4450	800	190	0.40	Y 400/3/50	31	
ACH/M	150/24.4T	18.06	54.70	5.40	1	500	4750	930	270	0.69	Δ 400/3/50	34	
ACH/M	150/24.4Y	16.49	54.70	5.40	1	500	4200	800	190	0.40	Y 400/3/50	31	
ACH/M	150/27.4T	19.85	73.10	7.70	1	500	4550	930	270	0.69	Δ 400/3/50	34	
ACH/M	150/27.4Y	17.96	73.10	7.70	1	500	4050	800	190	0.40	Y 400/3/50	31	
ACH/M	250/35.5T	27.51	72.80	6.90	2	500	10000	930	540	1.38	Δ 400/3/50	37	
ACH/M	250/35.5Y	25.62	72.80	6.90	2	500	8900	800	380	0.80	Y 400/3/50	34	
ACH/M	250/47.4T	35.49	109.60	11.50	2	500	9500	930	540	1.38	Δ 400/3/50	37	
ACH/M	250/47.4Y	32.45	109.60	11.50	2	500	8400	800	380	0.80	Y 400/3/50	34	
ACH/M	250/54.8T	39.69	146.10	15.40	2	500	9100	930	540	1.38	Δ 400/3/50	37	
ACH/M	250/54.8Y	35.91	146.10	15.40	2	500	8100	800	380	0.80	Y 400/3/50	34	
ACH/M	350/57.0T	44.21	109.60	11.50	3	500	15000	930	810	2.07	Δ 400/3/50	39	
ACH/M	350/57.0Y	40.95	109.60	11.50	3	500	13350	800	570	1.20	Y 400/3/50	36	
ACH/M	350/71.0T	53.34	164.40	17.30	3	500	14250	930	810	2.07	Δ 400/3/50	39	
ACH/M	350/71.0Y	48.62	164.40	17.30	3	500	12600	800	570	1.20	Y 400/3/50	36	
ACH/M	350/82.4T	59.43	219.20	23.00	3	500	13650	930	810	2.07	Δ 400/3/50	39	
ACH/M	350/82.4Y	53.87	219.20	23.00	3	500	12150	800	570	1.20	Y 400/3/50	36	
ACH/M	450/98.5T	72.98	219.20	23.00	4	500	19000	930	1080	2.76	Δ 400/3/50	40	
ACH/M	450/98.5Y	66.36	219.20	23.00	4	500	16800	800	760	1.60	Y 400/3/50	37	
ACH/M	450/110T	79.38	292.20	30.70	4	500	18200	930	1080	2.76	Δ 400/3/50	40	
ACH/M	450/110Y	71.93	292.20	30.70	4	500	16200	800	760	1.60	Y 400/3/50	37	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer Painted
	EUR	EUR	
ACH/M	150/18.9T	S/P.	S/P.
ACH/M	150/18.9Y	S/P.	S/P.
ACH/M	150/24.4T	S/P.	S/P.
ACH/M	150/24.4Y	S/P.	S/P.
ACH/M	150/27.4T	S/P.	S/P.
ACH/M	150/27.4Y	S/P.	S/P.
ACH/M	250/35.5T	S/P.	S/P.
ACH/M	250/35.5Y	S/P.	S/P.
ACH/M	250/47.4T	S/P.	S/P.
ACH/M	250/47.4Y	S/P.	S/P.
ACH/M	250/54.8T	S/P.	S/P.
ACH/M	250/54.8Y	S/P.	S/P.
ACH/M	350/57.0T	S/P.	S/P.
ACH/M	350/57.0Y	S/P.	S/P.
ACH/M	350/71.0T	S/P.	S/P.
ACH/M	350/71.0Y	S/P.	S/P.
ACH/M	350/82.4T	S/P.	S/P.
ACH/M	350/82.4Y	S/P.	S/P.
ACH/M	450/98.5T	S/P.	S/P.
ACH/M	450/98.5Y	S/P.	S/P.
ACH/M	450/110T	S/P.	S/P.
ACH/M	450/110Y	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressorP_{abs} - Potência absorvida do compressorT_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacityP_{abs} - Compressor absorbed powerT_E - Evaporating temperature

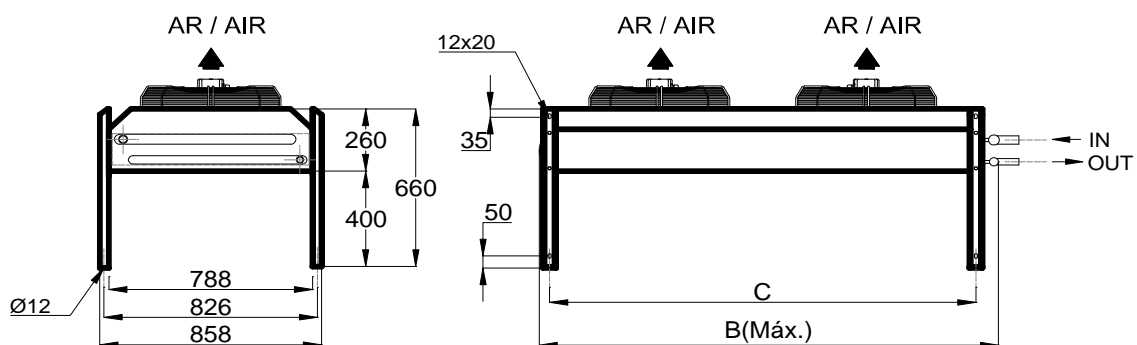
TD - Temperature difference

Motores EC disponíveis sob pedido

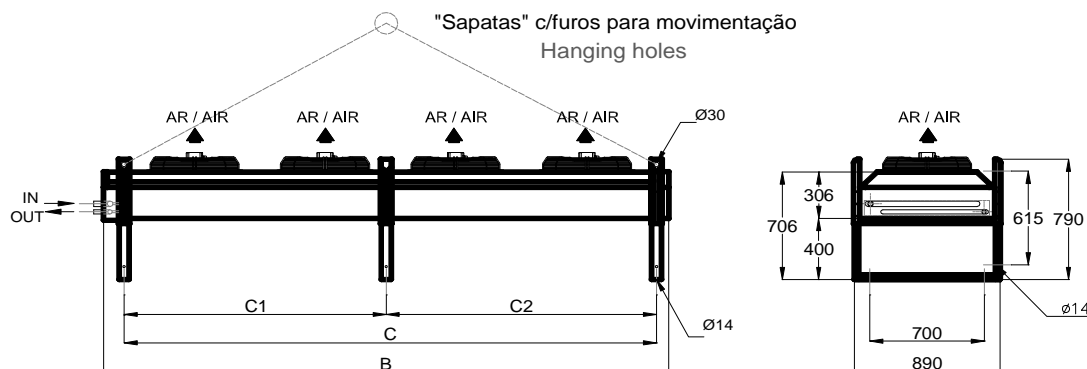
EC motors available under request

	Ligações Connections		Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2			
	in	in	mm				Kg	m ³	
	7/8	3/4	980	850	-	-	71	0.64	ACH/M 150/18.9T
	7/8	3/4	980	850	-	-	71	0.64	ACH/M 150/18.9Y
	1 1/8	7/8	980	850	-	-	79	0.64	ACH/M 150/24.4T
	1 1/8	7/8	980	850	-	-	79	0.64	ACH/M 150/24.4Y
	1 1/8	7/8	980	850	-	-	86	0.64	ACH/M 150/27.4T
	1 1/8	7/8	980	850	-	-	86	0.64	ACH/M 150/27.4Y
	1 3/8	1 1/8	1790	1650	-	-	118	1.12	ACH/M 250/35.5T
	1 3/8	1 1/8	1790	1650	-	-	118	1.12	ACH/M 250/35.5Y
	1 3/8	1 1/8	1790	1650	-	-	132	1.12	ACH/M 250/47.4T
	1 3/8	1 1/8	1790	1650	-	-	132	1.12	ACH/M 250/47.4Y
	1 3/8	1 1/8	1790	1650	-	-	145	1.12	ACH/M 250/54.8T
	1 3/8	1 1/8	1790	1650	-	-	145	1.12	ACH/M 250/54.8Y
	1 3/8	1 1/8	2605	2450	-	-	165	1.61	ACH/M 350/57.0T
	1 3/8	1 1/8	2605	2450	-	-	165	1.61	ACH/M 350/57.0Y
	1 5/8	1 3/8	2605	2450	-	-	186	1.61	ACH/M 350/71.0T
	1 5/8	1 3/8	2605	2450	-	-	186	1.61	ACH/M 350/71.0Y
	1 5/8	1 3/8	2605	2450	-	-	206	1.61	ACH/M 350/82.4T
	1 5/8	1 3/8	2605	2450	-	-	206	1.61	ACH/M 350/82.4Y
	1 5/8	1 3/8	3450	3250	1600	1650	299	2.40	ACH/M 450/98.5T
	1 5/8	1 3/8	3450	3250	1600	1650	299	2.40	ACH/M 450/98.5Y
	1 5/8	1 3/8	3450	3250	1600	1650	325	2.40	ACH/M 450/110T
	1 5/8	1 3/8	3450	3250	1600	1650	325	2.40	ACH/M 450/110Y

1 / 2 / 3 Ventiladores 1 / 2 / 3 Fans



4 Ventiladores 4 Fans



ACH

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 500 mm



Modelo Type		Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
		kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACH/M	150/18.9S	14.60	36.40	3.50	1	500	5000	915	270	1.18	230/1/50	35	
ACH/M	150/24.4S	18.06	54.70	5.40	1	500	4750	915	270	1.18	230/1/50	35	
ACH/M	150/27.4S	19.85	73.10	7.70	1	500	4550	915	270	1.18	230/1/50	35	
ACH/M	250/35.5S	27.51	72.80	6.90	2	500	10000	915	540	2.36	230/1/50	38	
ACH/M	250/47.4S	35.49	109.60	11.50	2	500	9500	915	540	2.36	230/1/50	38	
ACH/M	250/54.8S	39.69	146.10	15.40	2	500	9100	915	540	2.36	230/1/50	38	
ACH/M	350/57.0S	44.21	109.60	11.50	3	500	15000	915	810	3.54	230/1/50	40	
ACH/M	350/71.0S	53.34	164.40	17.30	3	500	14250	915	810	3.54	230/1/50	40	
ACH/M	350/82.4S	59.43	219.20	23.00	3	500	13650	915	810	3.54	230/1/50	40	
ACH/M	450/98.5S	72.98	219.20	23.00	4	500	19000	915	1080	4.72	230/1/50	41	
ACH/M	450/110S	79.38	292.20	30.70	4	500	18200	915	1080	4.72	230/1/50	41	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer Painted
	EUR	EUR	
ACH/M 150/18.9S	S/P.	S/P.	Standard
ACH/M 150/24.4S	S/P.	S/P.	
ACH/M 150/27.4S	S/P.	S/P.	
ACH/M 250/35.5S	S/P.	S/P.	
ACH/M 250/47.4S	S/P.	S/P.	
ACH/M 250/54.8S	S/P.	S/P.	
ACH/M 350/57.0S	S/P.	S/P.	
ACH/M 350/71.0S	S/P.	S/P.	
ACH/M 350/82.4S	S/P.	S/P.	
ACH/M 450/98.5S	S/P.	S/P.	
ACH/M 450/110S	S/P.	S/P.	

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

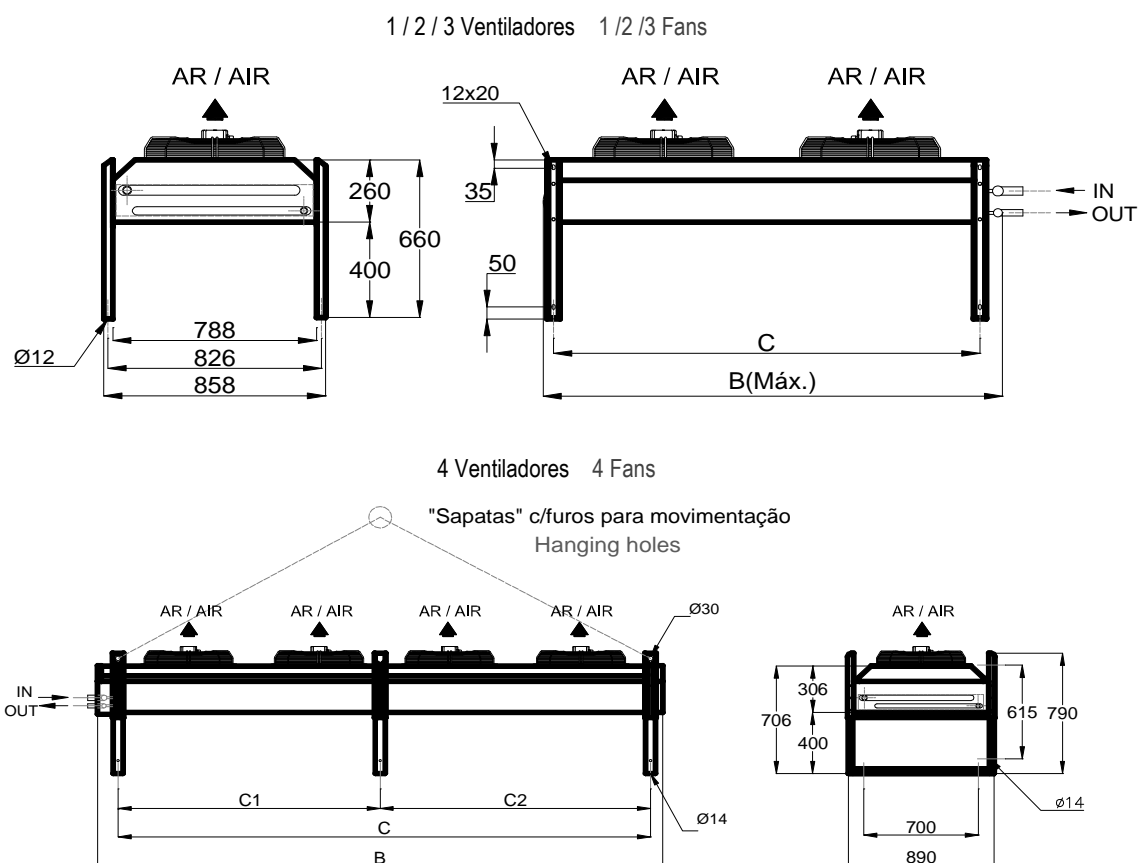
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet							
	in	in	B	C	C1	C2			
	mm						Kg	m³	
	7/8	3/4	980	850	-	-	71	0.64	ACH/M 150/18.9S
	1 1/8	7/8	980	850	-	-	79	0.64	ACH/M 150/24.4S
	1 1/8	7/8	980	850	-	-	86	0.64	ACH/M 150/27.4S
	1 3/8	1 1/8	1790	1650	-	-	118	1.12	ACH/M 250/35.5S
	1 3/8	1 1/8	1790	1650	-	-	132	1.12	ACH/M 250/47.4S
	1 3/8	1 1/8	1790	1650	-	-	145	1.12	ACH/M 250/54.8S
	1 3/8	1 1/8	2605	2450	-	-	165	1.61	ACH/M 350/57.0S
	1 5/8	1 3/8	2605	2450	-	-	186	1.61	ACH/M 350/71.0S
	1 5/8	1 3/8	2605	2450	-	-	206	1.61	ACH/M 350/82.4S
	1 5/8	1 3/8	3450	3250	1600	1650	299	2.40	ACH/M 450/98.5S
	1 5/8	1 3/8	3450	3250	1600	1650	325	2.40	ACH/M 450/110S





Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACH/R 150/18.9T	11.55	36.40	3.50	1	500	3600	680	150	0.40	Δ 400/3/50	27	
ACH/R 150/18.9Y	10.40	36.40	3.50	1	500	3150	560	90	0.18	Y 400/3/50	24	
ACH/R 150/24.4T	13.86	54.70	5.40	1	500	3400	680	150	0.40	Δ 400/3/50	27	
ACH/R 150/24.4Y	12.50	54.70	5.40	1	500	3000	560	90	0.18	Y 400/3/50	24	
ACH/R 150/27.4T	14.81	73.10	7.70	1	500	3250	680	150	0.40	Δ 400/3/50	27	
ACH/R 150/27.4Y	13.13	73.10	7.70	1	500	2800	560	90	0.18	Y 400/3/50	24	
ACH/R 250/35.5T	21.84	72.80	6.90	2	500	7200	680	300	0.80	Δ 400/3/50	30	
ACH/R 250/35.5Y	19.85	72.80	6.90	2	500	6300	560	180	0.36	Y 400/3/50	27	
ACH/R 250/47.4T	27.30	109.60	11.50	2	500	6800	680	300	0.80	Δ 400/3/50	30	
ACH/R 250/47.4Y	24.78	109.60	11.50	2	500	6000	560	180	0.36	Y 400/3/50	27	
ACH/R 250/54.8T	29.72	146.10	15.40	2	500	6500	680	300	0.80	Δ 400/3/50	30	
ACH/R 250/54.8Y	26.25	146.10	15.40	2	500	5600	560	180	0.36	Y 400/3/50	27	
ACH/R 350/57.0T	34.86	109.60	11.50	3	500	10800	680	450	1.20	Δ 400/3/50	32	
ACH/R 350/57.0Y	31.61	109.60	11.50	3	500	9450	560	270	0.54	Y 400/3/50	29	
ACH/R 350/71.0T	40.95	164.40	17.30	3	500	10200	680	450	1.20	Δ 400/3/50	32	
ACH/R 350/71.0Y	37.17	164.40	17.30	3	500	9000	560	270	0.54	Y 400/3/50	29	
ACH/R 350/82.4T	44.52	219.20	23.00	3	500	9750	680	450	1.20	Δ 400/3/50	32	
ACH/R 350/82.4Y	39.27	219.20	23.00	3	500	8400	560	270	0.54	Y 400/3/50	29	
ACH/R 450/98.5T	55.65	219.20	23.00	4	500	13600	680	600	1.60	Δ 400/3/50	33	
ACH/R 450/98.5Y	50.40	219.20	23.00	4	500	12000	560	360	0.72	Y 400/3/50	30	
ACH/R 450/110T	59.43	292.20	30.70	4	500	13000	680	600	1.60	Δ 400/3/50	33	
ACH/R 450/110Y	52.50	292.20	30.70	4	500	11200	560	360	0.72	Y 400/3/50	30	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer
		EUR	EUR
ACH/R	150/18.9T	S/P.	S/P.
ACH/R	150/18.9Y	S/P.	S/P.
ACH/R	150/24.4T	S/P.	S/P.
ACH/R	150/24.4Y	S/P.	S/P.
ACH/R	150/27.4T	S/P.	S/P.
ACH/R	150/27.4Y	S/P.	S/P.
ACH/R	250/35.5T	S/P.	S/P.
ACH/R	250/35.5Y	S/P.	S/P.
ACH/R	250/47.4T	S/P.	S/P.
ACH/R	250/47.4Y	S/P.	S/P.
ACH/R	250/54.8T	S/P.	S/P.
ACH/R	250/54.8Y	S/P.	S/P.
ACH/R	350/57.0T	S/P.	S/P.
ACH/R	350/57.0Y	S/P.	S/P.
ACH/R	350/71.0T	S/P.	S/P.
ACH/R	350/71.0Y	S/P.	S/P.
ACH/R	350/82.4T	S/P.	S/P.
ACH/R	350/82.4Y	S/P.	S/P.
ACH/R	450/98.5T	S/P.	S/P.
ACH/R	450/98.5Y	S/P.	S/P.
ACH/R	450/110T	S/P.	S/P.
ACH/R	450/110Y	S/P.	S/P.

Standard

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressorP_{abs} - Potência absorvida do compressorT_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacityP_{abs} - Compressor absorbed powerT_E - Evaporating temperature

TD - Temperature difference

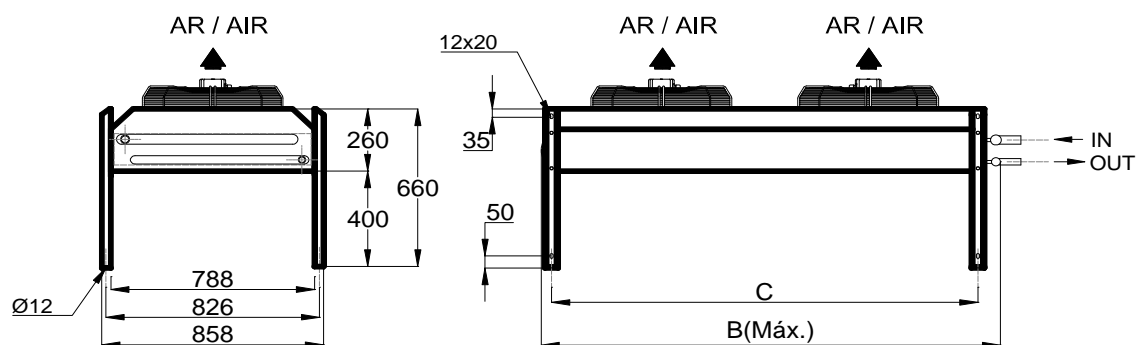
Motores EC disponíveis sob pedido

EC motors available under request

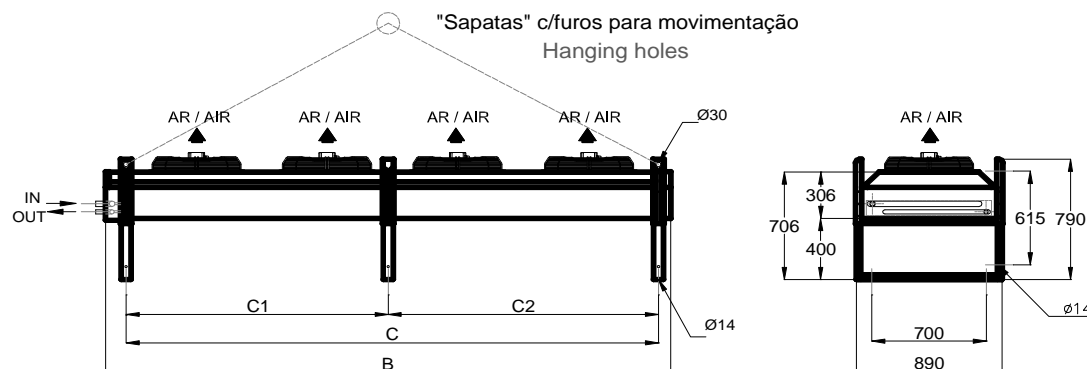
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	Ligações Connections		Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	mm						
			B	C	C1	C2			
	in	in	mm				Kg	m ³	
	7/8	3/4	980	850	-	-	71	0.64	ACH/R 150/18.9T
	7/8	3/4	980	850	-	-	71	0.64	ACH/R 150/18.9Y
	1 1/8	7/8	980	850	-	-	79	0.64	ACH/R 150/24.4T
	1 1/8	7/8	980	850	-	-	79	0.64	ACH/R 150/24.4Y
	1 1/8	7/8	980	850	-	-	86	0.64	ACH/R 150/27.4T
	1 1/8	7/8	980	850	-	-	86	0.64	ACH/R 150/27.4Y
	1 3/8	1 1/8	1790	1650	-	-	118	1.12	ACH/R 250/35.5T
	1 3/8	1 1/8	1790	1650	-	-	118	1.12	ACH/R 250/35.5Y
	1 3/8	1 1/8	1790	1650	-	-	132	1.12	ACH/R 250/47.4T
	1 3/8	1 1/8	1790	1650	-	-	132	1.12	ACH/R 250/47.4Y
	1 3/8	1 1/8	1790	1650	-	-	145	1.12	ACH/R 250/54.8T
	1 3/8	1 1/8	1790	1650	-	-	145	1.12	ACH/R 250/54.8Y
	1 3/8	1 1/8	2605	2450	-	-	165	1.61	ACH/R 350/57.0T
	1 3/8	1 1/8	2605	2450	-	-	165	1.61	ACH/R 350/57.0Y
	1 5/8	1 3/8	2605	2450	-	-	186	1.61	ACH/R 350/71.0T
	1 5/8	1 3/8	2605	2450	-	-	186	1.61	ACH/R 350/71.0Y
	1 5/8	1 3/8	2605	2450	-	-	206	1.61	ACH/R 350/82.4T
	1 5/8	1 3/8	2605	2450	-	-	206	1.61	ACH/R 350/82.4Y
	1 5/8	1 3/8	3450	3250	1600	1650	299	2.40	ACH/R 450/98.5T
	1 5/8	1 3/8	3450	3250	1600	1650	299	2.40	ACH/R 450/98.5Y
	1 5/8	1 3/8	3450	3250	1600	1650	325	2.40	ACH/R 450/110T
	1 5/8	1 3/8	3450	3250	1600	1650	325	2.40	ACH/R 450/110Y

1 / 2 / 3 Ventiladores 1 / 2 / 3 Fans



4 Ventiladores 4 Fans



ACH

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 500 mm



Modelo Type		Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
		kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACH/R	150/18.9S	11.55	36.40	3.50	1	500	3600	665	130	0.59	230/1/50	28	
ACH/R	150/24.4S	13.86	54.70	5.40	1	500	3400	665	130	0.59	230/1/50	28	
ACH/R	150/27.4S	14.81	73.10	7.70	1	500	3250	665	130	0.59	230/1/50	28	
ACH/R	250/35.5S	21.84	72.80	6.90	2	500	7200	665	260	1.18	230/1/50	31	
ACH/R	250/47.4S	27.30	109.60	11.50	2	500	6800	665	260	1.18	230/1/50	31	
ACH/R	250/54.8S	29.72	146.10	15.40	2	500	6500	665	260	1.18	230/1/50	31	
ACH/R	350/57.0S	34.86	109.60	11.50	3	500	10800	665	390	1.77	230/1/50	33	
ACH/R	350/71.0S	40.95	164.40	17.30	3	500	10200	665	390	1.77	230/1/50	33	
ACH/R	350/82.4S	44.52	219.20	23.00	3	500	9750	665	390	1.77	230/1/50	33	
ACH/R	450/98.5S	55.65	219.20	23.00	4	500	13600	665	520	2.36	230/1/50	34	
ACH/R	450/110S	59.43	292.20	30.70	4	500	13000	665	520	2.36	230/1/50	34	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer
		EUR	EUR
ACH/R 150/18.9S	S/P.	S/P.	Standard
ACH/R 150/24.4S	S/P.	S/P.	
ACH/R 150/27.4S	S/P.	S/P.	
ACH/R 250/35.5S	S/P.	S/P.	
ACH/R 250/47.4S	S/P.	S/P.	
ACH/R 250/54.8S	S/P.	S/P.	
ACH/R 350/57.0S	S/P.	S/P.	
ACH/R 350/71.0S	S/P.	S/P.	
ACH/R 350/82.4S	S/P.	S/P.	
ACH/R 450/98.5S	S/P.	S/P.	
ACH/R 450/110S	S/P.	S/P.	

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

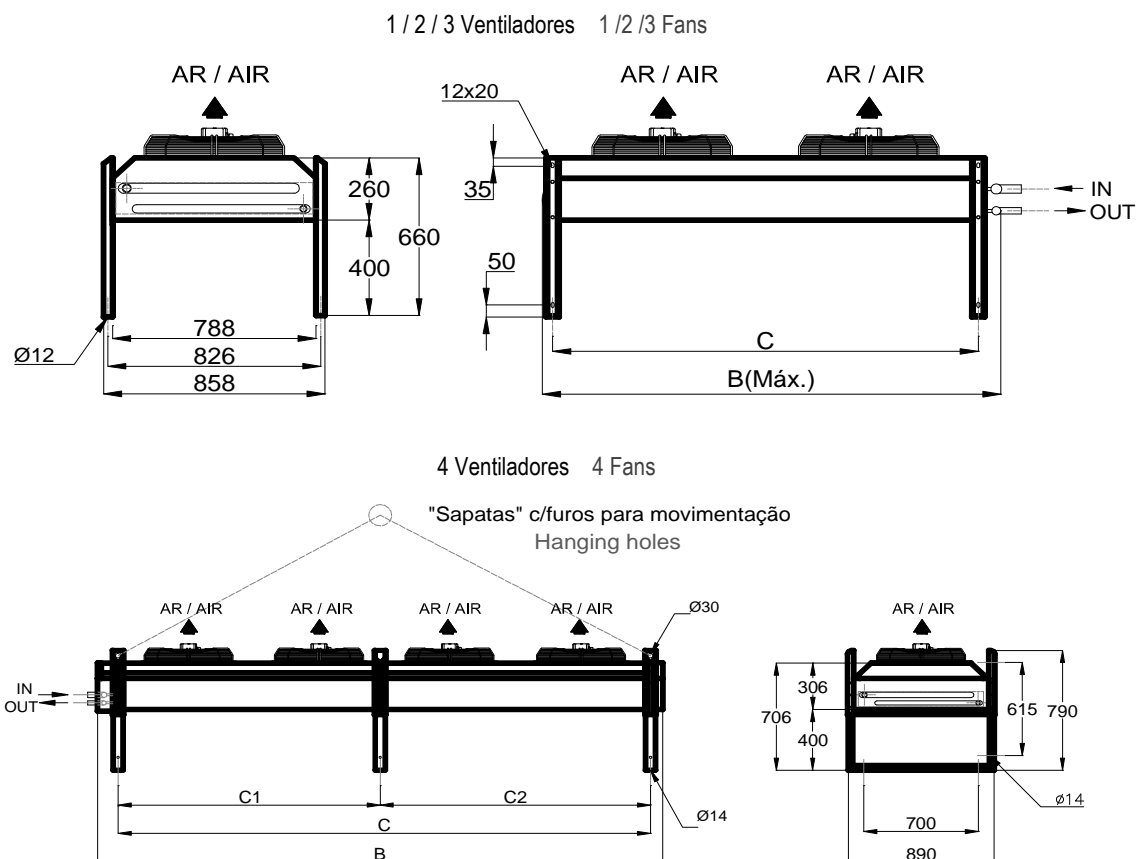
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions				Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2			
	in	in	mm				Kg	m³	
	7/8	3/4	980	850	-	-	71	0.64	ACH/R 150/18.9S
	1 1/8	7/8	980	850	-	-	79	0.64	ACH/R 150/24.4S
	1 1/8	7/8	980	850	-	-	86	0.64	ACH/R 150/27.4S
	1 3/8	1 1/8	1790	1650	-	-	118	1.12	ACH/R 250/35.5S
	1 3/8	1 1/8	1790	1650	-	-	132	1.12	ACH/R 250/47.4S
	1 3/8	1 1/8	1790	1650	-	-	145	1.12	ACH/R 250/54.8S
	1 3/8	1 1/8	2605	2450	-	-	165	1.61	ACH/R 350/57.0S
	1 5/8	1 3/8	2605	2450	-	-	186	1.61	ACH/R 350/71.0S
	1 5/8	1 3/8	2605	2450	-	-	206	1.61	ACH/R 350/82.4S
	1 5/8	1 3/8	3450	3250	1600	1650	299	2.40	ACH/R 450/98.5S
	1 5/8	1 3/8	3450	3250	1600	1650	325	2.40	ACH/R 450/110S





Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans									
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level		
	kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)		
ACI/E	163/38.6T	38.64	76.71	8.10	1	630	15000	1330	1940	3.40	Δ 400/3/50	47	
ACI/E	163/38.6Y	34.44	76.71	8.10	1	630	12100	1040	1290	2.20	Y 400/3/50	41	
ACI/E	163/46.6T	46.62	114.90	11.50	1	630	14500	1330	1940	3.40	Δ 400/3/50	47	
ACI/E	163/46.6Y	39.90	114.90	11.50	1	630	11400	1040	1290	2.20	Y 400/3/50	41	
ACI/E	163/54.5T	54.50	153.40	16.10	1	630	14000	1330	1940	3.40	Δ 400/3/50	47	
ACI/E	163/54.5Y	45.47	153.40	16.10	1	630	11000	1040	1290	2.20	Y 400/3/50	41	
ACI/E	263/77.5T	77.49	153.41	16.10	2	630	30000	1330	3880	6.80	Δ 400/3/50	50	
ACI/E	263/77.5Y	67.83	153.41	16.10	2	630	24200	1040	2580	4.40	Y 400/3/50	44	
ACI/E	263/96.9T	96.92	230.10	24.20	2	630	29000	1330	3880	6.80	Δ 400/3/50	50	
ACI/E	263/96.9Y	82.01	230.10	24.20	2	630	22800	1040	2580	4.40	Y 400/3/50	44	
ACI/E	263/112T	112.04	306.82	32.30	2	630	28000	1330	3880	6.80	Δ 400/3/50	50	
ACI/E	263/112Y	92.72	306.82	32.30	2	630	22000	1040	2580	4.40	Y 400/3/50	44	
ACI/E	363/116T	115.61	230.12	24.20	3	630	45000	1330	5820	10.20	Δ 400/3/50	52	
ACI/E	363/116Y	97.86	230.12	24.20	3	630	36300	1040	3870	6.60	Y 400/3/50	46	
ACI/E	363/153T	153.09	345.20	36.30	3	630	43500	1330	5820	10.20	Δ 400/3/50	52	
ACI/E	363/153Y	128.63	345.20	36.30	3	630	34200	1040	3870	6.60	Y 400/3/50	46	
ACI/E	363/171T	170.52	460.20	48.40	3	630	42000	1330	5820	10.20	Δ 400/3/50	52	
ACI/E	363/171Y	140.91	460.20	48.40	3	630	33000	1040	3870	6.60	Y 400/3/50	46	
ACI/E	363/182T	181.86	575.30	60.50	3	630	41100	1330	5820	10.20	Δ 400/3/50	52	
ACI/E	363/182Y	148.16	575.30	60.50	3	630	32100	1040	3870	6.60	Y 400/3/50	46	
ACI/E	463/194T	193.94	460.20	48.40	4	630	58000	1330	7760	13.60	Δ 400/3/50	53	
ACI/E	463/194Y	164.12	460.20	48.40	4	630	45600	1040	5160	8.80	Y 400/3/50	47	
ACI/E	463/218T	218.19	613.60	64.50	4	630	56000	1330	7760	13.60	Δ 400/3/50	53	
ACI/E	463/218Y	182.18	613.60	64.50	4	630	44000	1040	5160	8.80	Y 400/3/50	47	
ACI/E	563/250T	249.69	575.30	60.50	5	630	72500	1330	9700	17.00	Δ 400/3/50	54	
ACI/E	563/250Y	210.11	575.30	60.50	5	630	57000	1040	6450	11.00	Y 400/3/50	48	
ACI/E	563/279T	278.99	767.10	80.60	5	630	70000	1330	9700	17.00	Δ 400/3/50	54	
ACI/E	563/279Y	231.53	767.10	80.60	5	630	55000	1040	6450	11.00	Y 400/3/50	48	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer Painted
	EUR	EUR	
ACI/E	163/38.6T	S/P.	S/P.
ACI/E	163/38.6Y	S/P.	S/P.
ACI/E	163/46.6T	S/P.	S/P.
ACI/E	163/46.6Y	S/P.	S/P.
ACI/E	163/54.5T	S/P.	S/P.
ACI/E	163/54.5Y	S/P.	S/P.
ACI/E	263/77.5T	S/P.	S/P.
ACI/E	263/77.5Y	S/P.	S/P.
ACI/E	263/96.9T	S/P.	S/P.
ACI/E	263/96.9Y	S/P.	S/P.
ACI/E	263/112T	S/P.	S/P.
ACI/E	263/112Y	S/P.	S/P.
ACI/E	363/116T	S/P.	S/P.
ACI/E	363/116Y	S/P.	S/P.
ACI/E	363/153T	S/P.	S/P.
ACI/E	363/153Y	S/P.	S/P.
ACI/E	363/171T	S/P.	S/P.
ACI/E	363/171Y	S/P.	S/P.
ACI/E	363/182T	S/P.	S/P.
ACI/E	363/182Y	S/P.	S/P.
ACI/E	463/194T	S/P.	S/P.
ACI/E	463/194Y	S/P.	S/P.
ACI/E	463/218T	S/P.	S/P.
ACI/E	463/218Y	S/P.	S/P.
ACI/E	563/250T	S/P.	S/P.
ACI/E	563/250Y	S/P.	S/P.
ACI/E	563/279T	S/P.	S/P.
ACI/E	563/279Y	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

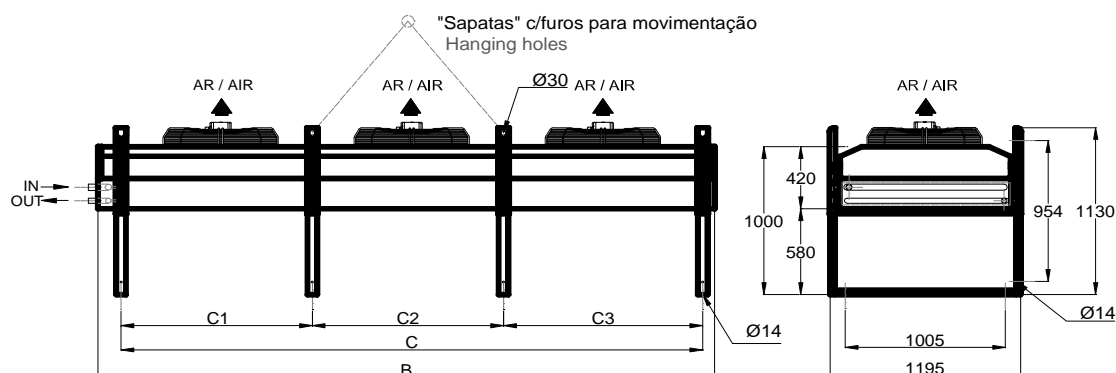
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3			
	in	in	mm					Kg	m ³	
	1 3/8	1 1/8	1520	1250	-	-	-	172	1.65	ACI/E 163/38.6T
	1 3/8	1 1/8	1520	1250	-	-	-	172	1.65	ACI/E 163/38.6Y
	1 3/8	1 1/8	1520	1250	-	-	-	187	1.65	ACI/E 163/46.6T
	1 3/8	1 1/8	1520	1250	-	-	-	187	1.65	ACI/E 163/46.6Y
	1 3/8	1 1/8	1520	1250	-	-	-	201	1.65	ACI/E 163/54.5T
	1 3/8	1 1/8	1520	1250	-	-	-	201	1.65	ACI/E 163/54.5Y
	1 5/8	1 3/8	2720	2450	-	-	-	256	2.91	ACI/E 263/77.5T
	1 5/8	1 3/8	2720	2450	-	-	-	256	2.91	ACI/E 263/77.5Y
	1 5/8	1 3/8	2720	2450	-	-	-	283	2.91	ACI/E 263/96.9T
	1 5/8	1 3/8	2720	2450	-	-	-	283	2.91	ACI/E 263/96.9Y
	2 1/8	1 5/8	2720	2450	-	-	-	311	2.91	ACI/E 263/112T
	2 1/8	1 5/8	2720	2450	-	-	-	311	2.91	ACI/E 263/112Y
	2 1/8	1 5/8	3920	3650	-	-	-	404	4.18	ACI/E 363/116T
	2 1/8	1 5/8	3920	3650	-	-	-	404	4.18	ACI/E 363/116Y
	2 1/8	1 5/8	3920	3650	-	-	-	447	4.18	ACI/E 363/153T
	2 1/8	1 5/8	3920	3650	-	-	-	447	4.18	ACI/E 363/153Y
	2 1/8	1 5/8	3920	3650	-	-	-	488	4.18	ACI/E 363/171T
	2 1/8	1 5/8	3920	3650	-	-	-	488	4.18	ACI/E 363/171Y
	2 1/8	1 5/8	3920	3650	-	-	-	528	4.18	ACI/E 363/182T
	2 1/8	1 5/8	3920	3650	-	-	-	528	4.18	ACI/E 363/182Y
	2 5/8	2 1/8	5120	4850	1200	2400	1250	541	5.44	ACI/E 463/194T
	2 5/8	2 1/8	5120	4850	1200	2400	1250	541	5.44	ACI/E 463/194Y
	2 5/8	2 1/8	5120	4850	1200	2400	1250	595	5.44	ACI/E 463/218T
	2 5/8	2 1/8	5120	4850	1200	2400	1250	595	5.44	ACI/E 463/218Y
	2 5/8	2 1/8	6320	6050	1200	3600	1250	639	6.70	ACI/E 563/250T
	2 5/8	2 1/8	6320	6050	1200	3600	1250	639	6.70	ACI/E 563/250Y
	2 5/8	2 1/8	6320	6050	1200	3600	1250	705	6.70	ACI/E 563/279T
	2 5/8	2 1/8	6320	6050	1200	3600	1250	705	6.70	ACI/E 563/279Y





Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans									
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level		
	kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)		
ACI/M	163/38.6T	31.50	76.71	8.10	1	630	10800	850	740	1.38	Δ 400/3/50	37	
ACI/M	163/38.6Y	25.94	76.71	8.10	1	630	8200	620	440	0.76	Y 400/3/50	32	
ACI/M	163/46.6T	36.96	114.90	11.50	1	630	10200	850	740	1.38	Δ 400/3/50	37	
ACI/M	163/46.6Y	30.24	114.90	11.50	1	630	7800	620	440	0.76	Y 400/3/50	32	
ACI/M	163/54.5T	42.00	153.40	16.10	1	630	9900	850	740	1.38	Δ 400/3/50	37	
ACI/M	163/54.5Y	32.97	153.40	16.10	1	630	7400	620	440	0.76	Y 400/3/50	32	
ACI/M	263/77.5T	63.00	153.41	16.10	2	630	21600	850	1480	2.76	Δ 400/3/50	40	
ACI/M	263/77.5Y	51.98	153.41	16.10	2	630	16400	620	880	1.52	Y 400/3/50	35	
ACI/M	263/96.9T	75.81	230.10	24.20	2	630	20400	850	1480	2.76	Δ 400/3/50	40	
ACI/M	263/96.9Y	61.64	230.10	24.20	2	630	15600	620	880	1.52	Y 400/3/50	35	
ACI/M	263/112T	85.26	306.82	32.30	2	630	19800	850	1480	2.76	Δ 400/3/50	40	
ACI/M	263/112Y	66.57	306.82	32.30	2	630	14800	620	880	1.52	Y 400/3/50	35	
ACI/M	363/116T	91.25	230.12	24.20	3	630	32400	850	2220	4.14	Δ 400/3/50	42	
ACI/M	363/116Y	76.02	230.12	24.20	3	630	24600	620	1320	2.28	Y 400/3/50	37	
ACI/M	363/153T	118.34	345.20	36.30	3	630	30600	850	2220	4.14	Δ 400/3/50	42	
ACI/M	363/153Y	95.24	345.20	36.30	3	630	23400	620	1320	2.28	Y 400/3/50	37	
ACI/M	363/171T	129.57	460.20	48.40	3	630	29700	850	2220	4.14	Δ 400/3/50	42	
ACI/M	363/171Y	101.01	460.20	48.40	3	630	22200	620	1320	2.28	Y 400/3/50	37	
ACI/M	363/182T	135.35	575.30	60.50	3	630	28800	850	2220	4.14	Δ 400/3/50	42	
ACI/M	363/182Y	104.69	575.30	60.50	3	630	21600	620	1320	2.28	Y 400/3/50	37	
ACI/M	463/194T	151.83	460.20	48.40	4	630	40800	850	2960	5.52	Δ 400/3/50	43	
ACI/M	463/194Y	123.38	460.20	48.40	4	630	31200	620	1760	3.04	Y 400/3/50	38	
ACI/M	463/218T	168.11	613.60	64.50	4	630	39600	850	2960	5.52	Δ 400/3/50	43	
ACI/M	463/218Y	132.20	613.60	64.50	4	630	29600	620	1760	3.04	Y 400/3/50	38	
ACI/M	563/250T	193.73	575.30	60.50	5	630	51000	850	3700	6.90	Δ 400/3/50	44	
ACI/M	563/250Y	156.56	575.30	60.50	5	630	39000	620	2200	3.80	Y 400/3/50	39	
ACI/M	563/279T	213.36	767.10	80.60	5	630	49500	850	3700	6.90	Δ 400/3/50	44	
ACI/M	563/279Y	166.95	767.10	80.60	5	630	37000	620	2200	3.80	Y 400/3/50	39	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer Painted
		EUR	
ACI/M	163/38.6T	S/P.	S/P.
ACI/M	163/38.6Y	S/P.	S/P.
ACI/M	163/46.6T	S/P.	S/P.
ACI/M	163/46.6Y	S/P.	S/P.
ACI/M	163/54.5T	S/P.	S/P.
ACI/M	163/54.5Y	S/P.	S/P.
ACI/M	263/77.5T	S/P.	S/P.
ACI/M	263/77.5Y	S/P.	S/P.
ACI/M	263/96.9T	S/P.	S/P.
ACI/M	263/96.9Y	S/P.	S/P.
ACI/M	263/112T	S/P.	S/P.
ACI/M	263/112Y	S/P.	S/P.
ACI/M	363/116T	S/P.	S/P.
ACI/M	363/116Y	S/P.	S/P.
ACI/M	363/153T	S/P.	S/P.
ACI/M	363/153Y	S/P.	S/P.
ACI/M	363/171T	S/P.	S/P.
ACI/M	363/171Y	S/P.	S/P.
ACI/M	363/182T	S/P.	S/P.
ACI/M	363/182Y	S/P.	S/P.
ACI/M	463/194T	S/P.	S/P.
ACI/M	463/194Y	S/P.	S/P.
ACI/M	463/218T	S/P.	S/P.
ACI/M	463/218Y	S/P.	S/P.
ACI/M	563/250T	S/P.	S/P.
ACI/M	563/250Y	S/P.	S/P.
ACI/M	563/279T	S/P.	S/P.
ACI/M	563/279Y	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	Open			Open			Open			Open			Open		
°C	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

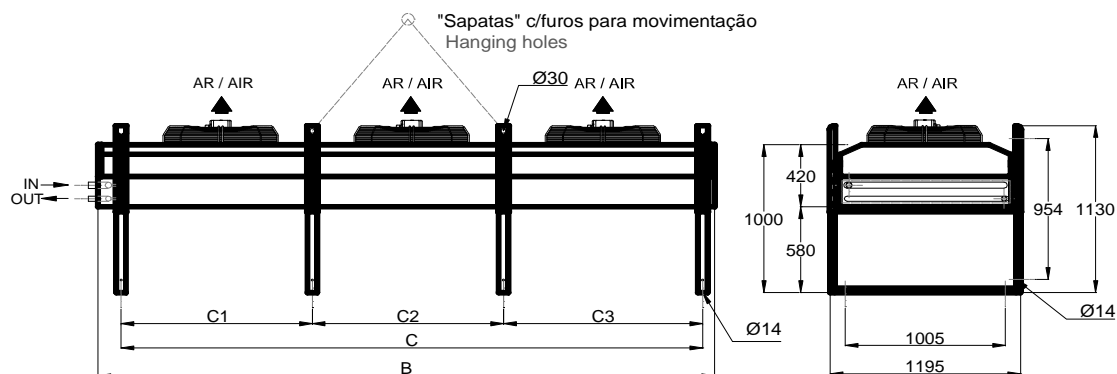
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3			
	in	in	mm					Kg	m ³	
	1 3/8	1 1/8	1520	1250	-	-	-	172	1.65	ACI/M 163/38.6T
	1 3/8	1 1/8	1520	1250	-	-	-	172	1.65	ACI/M 163/38.6Y
	1 3/8	1 1/8	1520	1250	-	-	-	187	1.65	ACI/M 163/46.6T
	1 3/8	1 1/8	1520	1250	-	-	-	187	1.65	ACI/M 163/46.6Y
	1 3/8	1 1/8	1520	1250	-	-	-	201	1.65	ACI/M 163/54.5T
	1 3/8	1 1/8	1520	1250	-	-	-	201	1.65	ACI/M 163/54.5Y
	1 5/8	1 3/8	2720	2450	-	-	-	256	2.91	ACI/M 263/77.5T
	1 5/8	1 3/8	2720	2450	-	-	-	256	2.91	ACI/M 263/77.5Y
	1 5/8	1 3/8	2720	2450	-	-	-	283	2.91	ACI/M 263/96.9T
	1 5/8	1 3/8	2720	2450	-	-	-	283	2.91	ACI/M 263/96.9Y
	2 1/8	1 5/8	2720	2450	-	-	-	311	2.91	ACI/M 263/112T
	2 1/8	1 5/8	2720	2450	-	-	-	311	2.91	ACI/M 263/112Y
	2 1/8	1 5/8	3920	3650	-	-	-	404	4.18	ACI/M 363/116T
	2 1/8	1 5/8	3920	3650	-	-	-	404	4.18	ACI/M 363/116Y
	2 1/8	1 5/8	3920	3650	-	-	-	447	4.18	ACI/M 363/153T
	2 1/8	1 5/8	3920	3650	-	-	-	447	4.18	ACI/M 363/153Y
	2 1/8	1 5/8	3920	3650	-	-	-	488	4.18	ACI/M 363/171T
	2 1/8	1 5/8	3920	3650	-	-	-	488	4.18	ACI/M 363/171Y
	2 1/8	1 5/8	3920	3650	-	-	-	528	4.18	ACI/M 363/182T
	2 1/8	1 5/8	3920	3650	-	-	-	528	4.18	ACI/M 363/182Y
	2 5/8	2 1/8	5120	4850	1200	2400	1250	541	5.44	ACI/M 463/194T
	2 5/8	2 1/8	5120	4850	1200	2400	1250	541	5.44	ACI/M 463/194Y
	2 5/8	2 1/8	5120	4850	1200	2400	1250	595	5.44	ACI/M 463/218T
	2 5/8	2 1/8	5120	4850	1200	2400	1250	595	5.44	ACI/M 463/218Y
	2 5/8	2 1/8	6320	6050	1200	3600	1250	639	6.70	ACI/M 563/250T
	2 5/8	2 1/8	6320	6050	1200	3600	1250	639	6.70	ACI/M 563/250Y
	2 5/8	2 1/8	6320	6050	1200	3600	1250	705	6.70	ACI/M 563/279T
	2 5/8	2 1/8	6320	6050	1200	3600	1250	705	6.70	ACI/M 563/279Y





Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans									
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level		
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)		
ACI/M	163/38.6S	29.19	76.71	8.10	1	630	9600	860	600	2.62	230/1/50	38	
ACI/M	163/46.6S	34.44	114.90	11.50	1	630	9200	860	600	2.62	230/1/50	38	
ACI/M	163/54.5S	38.64	153.40	16.10	1	630	8900	860	600	2.62	230/1/50	38	
ACI/M	263/77.5S	58.38	153.41	16.10	2	630	19200	860	1200	5.24	230/1/50	41	
ACI/M	263/96.9S	70.46	230.10	24.20	2	630	18400	860	1200	5.24	230/1/50	41	
ACI/M	263/112S	78.12	306.82	32.30	2	630	17800	860	1200	5.24	230/1/50	41	
ACI/M	363/116S	84.95	230.12	24.20	3	630	28800	860	1800	7.86	230/1/50	43	
ACI/M	363/153S	109.52	345.20	36.30	3	630	27600	860	1800	7.86	230/1/50	43	
ACI/M	363/171S	118.76	460.20	48.40	3	630	26700	860	1800	7.86	230/1/50	43	
ACI/M	363/182S	124.11	575.30	60.50	3	630	26100	860	1800	7.86	230/1/50	43	
ACI/M	463/194S	141.12	460.20	48.40	4	630	36800	860	2400	10.48	230/1/50	44	
ACI/M	463/218S	154.56	613.60	64.50	4	630	35600	860	2400	10.48	230/1/50	44	
ACI/M	563/250S	179.55	575.30	60.50	5	630	46000	860	3000	13.10	230/1/50	45	
ACI/M	563/279S	195.72	767.10	80.60	5	630	44500	860	3000	13.10	230/1/50	45	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer
		EUR	EUR
ACI/M 163/38.6S	S/P.	S/P.	S/P.
ACI/M 163/46.6S	S/P.	S/P.	S/P.
ACI/M 163/54.5S	S/P.	S/P.	S/P.
ACI/M 263/77.5S	S/P.	S/P.	S/P.
ACI/M 263/96.9S	S/P.	S/P.	S/P.
ACI/M 263/112S	S/P.	S/P.	S/P.
ACI/M 363/116S	S/P.	S/P.	S/P.
ACI/M 363/153S	S/P.	S/P.	S/P.
ACI/M 363/171S	S/P.	S/P.	S/P.
ACI/M 363/182S	S/P.	S/P.	S/P.
ACI/M 463/194S	S/P.	S/P.	S/P.
ACI/M 463/218S	S/P.	S/P.	S/P.
ACI/M 563/250S	S/P.	S/P.	S/P.
ACI/M 563/279S	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

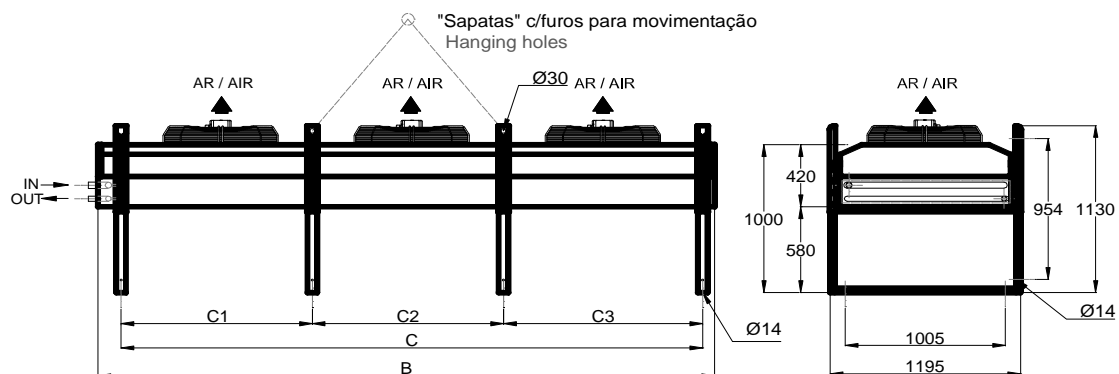
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3			
	in	in	mm					Kg	m³	
	1 3/8	1 1/8	1520	1250	-	-	-	172	1.65	ACI/M 163/38.6S
	1 3/8	1 1/8	1520	1250	-	-	-	187	1.65	ACI/M 163/46.6S
	1 3/8	1 1/8	1520	1250	-	-	-	201	1.65	ACI/M 163/54.5S
	1 5/8	1 3/8	2720	2450	-	-	-	256	2.91	ACI/M 263/77.5S
	1 5/8	1 3/8	2720	2450	-	-	-	283	2.91	ACI/M 263/96.9S
	2 1/8	1 5/8	2720	2450	-	-	-	311	2.91	ACI/M 263/112S
	2 1/8	1 5/8	3920	3650	-	-	-	404	4.18	ACI/M 363/116S
	2 1/8	1 5/8	3920	3650	-	-	-	447	4.18	ACI/M 363/153S
	2 1/8	1 5/8	3920	3650	-	-	-	488	4.18	ACI/M 363/171S
	2 1/8	1 5/8	3920	3650	-	-	-	528	4.18	ACI/M 363/182S
	2 5/8	2 1/8	5120	4850	1200	2400	1250	541	5.44	ACI/M 463/194S
	2 5/8	2 1/8	5120	4850	1200	2400	1250	595	5.44	ACI/M 463/218S
	2 5/8	2 1/8	6320	6050	1200	3600	1250	639	6.70	ACI/M 563/250S
	2 5/8	2 1/8	6320	6050	1200	3600	1250	705	6.70	ACI/M 563/279S





AC

ACM

ACH

ACI

ACP

ACPD

ACJ

VAC

VACD

	Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído Noise level	
		kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
ACI/R	163/38.6T	25.94	76.71	8.10	1	630	8200	670	370	0.88	Δ 400/3/50	31	
ACI/R	163/38.6Y	20.69	76.71	8.10	1	630	6000	450	210	0.41	Y 400/3/50	26	
ACI/R	163/46.6T	30.24	114.90	11.50	1	630	7800	670	370	0.88	Δ 400/3/50	31	
ACI/R	163/46.6Y	23.84	114.90	11.50	1	630	5700	450	210	0.41	Y 400/3/50	26	
ACI/R	163/54.5T	32.97	153.40	16.10	1	630	7400	670	370	0.88	Δ 400/3/50	31	
ACI/R	163/54.5Y	25.41	153.40	16.10	1	630	5400	450	210	0.41	Y 400/3/50	26	
ACI/R	263/77.5T	51.98	153.41	16.10	2	630	16400	670	740	1.76	Δ 400/3/50	34	
ACI/R	263/77.5Y	41.37	153.41	16.10	2	630	12000	450	420	0.82	Y 400/3/50	29	
ACI/R	263/96.9T	61.64	230.10	24.20	2	630	15600	670	740	1.76	Δ 400/3/50	34	
ACI/R	263/96.9Y	48.30	230.10	24.20	2	630	11400	450	420	0.82	Y 400/3/50	29	
ACI/R	263/112T	66.57	306.82	32.30	2	630	14800	670	740	1.76	Δ 400/3/50	34	
ACI/R	263/112Y	51.03	306.82	32.30	2	630	10800	450	420	0.82	Y 400/3/50	29	
ACI/R	363/116T	76.02	230.12	24.20	3	630	24600	670	1110	2.64	Δ 400/3/50	36	
ACI/R	363/116Y	61.01	230.12	24.20	3	630	18000	450	630	1.23	Y 400/3/50	31	
ACI/R	363/153T	95.24	345.20	36.30	3	630	23400	670	1110	2.64	Δ 400/3/50	36	
ACI/R	363/153Y	73.92	345.20	36.30	3	630	17100	450	630	1.23	Y 400/3/50	31	
ACI/R	363/171T	101.01	460.20	48.40	3	630	22200	670	1110	2.64	Δ 400/3/50	36	
ACI/R	363/171Y	77.39	460.20	48.40	3	630	16200	450	630	1.23	Y 400/3/50	31	
ACI/R	363/182T	104.69	575.30	60.50	3	630	21600	670	1110	2.64	Δ 400/3/50	36	
ACI/R	363/182Y	79.28	575.30	60.50	3	630	15900	450	630	1.23	Y 400/3/50	31	
ACI/R	463/194T	123.38	460.20	48.40	4	630	31200	670	1480	3.52	Δ 400/3/50	37	
ACI/R	463/194Y	96.71	460.20	48.40	4	630	22800	450	840	1.64	Y 400/3/50	32	
ACI/R	463/218T	132.20	613.60	64.50	4	630	29600	670	1480	3.52	Δ 400/3/50	37	
ACI/R	463/218Y	101.96	613.60	64.50	4	630	21600	450	840	1.64	Y 400/3/50	32	
ACI/R	563/250T	156.56	575.30	60.50	5	630	39000	670	1850	4.40	Δ 400/3/50	38	
ACI/R	563/250Y	122.12	575.30	60.50	5	630	28500	450	1050	2.05	Y 400/3/50	33	
ACI/R	563/279T	166.95	767.10	80.60	5	630	37000	670	1850	4.40	Δ 400/3/50	38	
ACI/R	563/279Y	128.21	767.10	80.60	5	630	27000	450	1050	2.05	Y 400/3/50	33	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer
		EUR	EUR
ACI/R	163/38.6T	S/P.	S/P.
ACI/R	163/38.6Y	S/P.	S/P.
ACI/R	163/46.6T	S/P.	S/P.
ACI/R	163/46.6Y	S/P.	S/P.
ACI/R	163/54.5T	S/P.	S/P.
ACI/R	163/54.5Y	S/P.	S/P.
ACI/R	263/77.5T	S/P.	S/P.
ACI/R	263/77.5Y	S/P.	S/P.
ACI/R	263/96.9T	S/P.	S/P.
ACI/R	263/96.9Y	S/P.	S/P.
ACI/R	263/112T	S/P.	S/P.
ACI/R	263/112Y	S/P.	S/P.
ACI/R	363/116T	S/P.	S/P.
ACI/R	363/116Y	S/P.	S/P.
ACI/R	363/153T	S/P.	S/P.
ACI/R	363/153Y	S/P.	S/P.
ACI/R	363/171T	S/P.	S/P.
ACI/R	363/171Y	S/P.	S/P.
ACI/R	363/182T	S/P.	S/P.
ACI/R	363/182Y	S/P.	S/P.
ACI/R	463/194T	S/P.	S/P.
ACI/R	463/194Y	S/P.	S/P.
ACI/R	463/218T	S/P.	S/P.
ACI/R	463/218Y	S/P.	S/P.
ACI/R	563/250T	S/P.	S/P.
ACI/R	563/250Y	S/P.	S/P.
ACI/R	563/279T	S/P.	S/P.
ACI/R	563/279Y	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

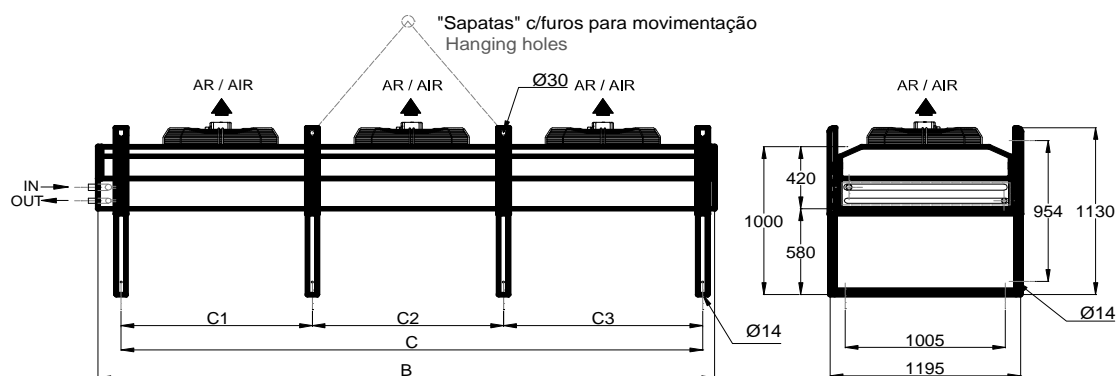
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	Dimensões Dimensions					
					C1	C2	C3			
	in	in	mm					Kg	m ³	
	1 3/8	1 1/8	1520	1250	-	-	-	172	1.65	ACI/R 163/38.6T
	1 3/8	1 1/8	1520	1250	-	-	-	172	1.65	ACI/R 163/38.6Y
	1 3/8	1 1/8	1520	1250	-	-	-	187	1.65	ACI/R 163/46.6T
	1 3/8	1 1/8	1520	1250	-	-	-	187	1.65	ACI/R 163/46.6Y
	1 3/8	1 1/8	1520	1250	-	-	-	201	1.65	ACI/R 163/54.5T
	1 3/8	1 1/8	1520	1250	-	-	-	201	1.65	ACI/R 163/54.5Y
	1 5/8	1 3/8	2720	2450	-	-	-	256	2.91	ACI/R 263/77.5T
	1 5/8	1 3/8	2720	2450	-	-	-	256	2.91	ACI/R 263/77.5Y
	1 5/8	1 3/8	2720	2450	-	-	-	283	2.91	ACI/R 263/96.9T
	1 5/8	1 3/8	2720	2450	-	-	-	283	2.91	ACI/R 263/96.9Y
	2 1/8	1 5/8	2720	2450	-	-	-	311	2.91	ACI/R 263/112T
	2 1/8	1 5/8	2720	2450	-	-	-	311	2.91	ACI/R 263/112Y
	2 1/8	1 5/8	3920	3650	-	-	-	404	4.18	ACI/R 363/116T
	2 1/8	1 5/8	3920	3650	-	-	-	404	4.18	ACI/R 363/116Y
	2 1/8	1 5/8	3920	3650	-	-	-	447	4.18	ACI/R 363/153T
	2 1/8	1 5/8	3920	3650	-	-	-	447	4.18	ACI/R 363/153Y
	2 1/8	1 5/8	3920	3650	-	-	-	488	4.18	ACI/R 363/171T
	2 1/8	1 5/8	3920	3650	-	-	-	488	4.18	ACI/R 363/171Y
	2 1/8	1 5/8	3920	3650	-	-	-	528	4.18	ACI/R 363/182T
	2 1/8	1 5/8	3920	3650	-	-	-	528	4.18	ACI/R 363/182Y
	2 5/8	2 1/8	5120	4850	1200	2400	1250	541	5.44	ACI/R 463/194T
	2 5/8	2 1/8	5120	4850	1200	2400	1250	541	5.44	ACI/R 463/194Y
	2 5/8	2 1/8	5120	4850	1200	2400	1250	595	5.44	ACI/R 463/218T
	2 5/8	2 1/8	5120	4850	1200	2400	1250	595	5.44	ACI/R 463/218Y
	2 5/8	2 1/8	6320	6050	1200	3600	1250	639	6.70	ACI/R 563/250T
	2 5/8	2 1/8	6320	6050	1200	3600	1250	639	6.70	ACI/R 563/250Y
	2 5/8	2 1/8	6320	6050	1200	3600	1250	705	6.70	ACI/R 563/279T
	2 5/8	2 1/8	6320	6050	1200	3600	1250	705	6.70	ACI/R 563/279Y





	Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
		kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACI/R	163/38.6S	25.94	76.71	8.10	1	630	8200	635	380	1.92	230/1/50	31	
ACI/R	163/46.6S	30.24	114.90	11.50	1	630	7800	635	380	1.92	230/1/50	31	
ACI/R	163/54.5S	32.97	153.40	16.10	1	630	7400	635	380	1.92	230/1/50	31	
ACI/R	263/77.5S	51.98	153.41	16.10	2	630	16400	635	760	3.84	230/1/50	34	
ACI/R	263/96.9S	61.64	230.10	24.20	2	630	15600	635	760	3.84	230/1/50	34	
ACI/R	263/112S	66.57	306.82	32.30	2	630	14800	635	760	3.84	230/1/50	34	
ACI/R	363/116S	76.02	230.12	24.20	3	630	24600	635	1140	5.76	230/1/50	36	
ACI/R	363/153S	95.24	345.20	36.30	3	630	23400	635	1140	5.76	230/1/50	36	
ACI/R	363/171S	101.01	460.20	48.40	3	630	22200	635	1140	5.76	230/1/50	36	
ACI/R	363/182S	104.69	575.30	60.50	3	630	21600	635	1140	5.76	230/1/50	36	
ACI/R	463/194S	123.38	460.20	48.40	4	630	31200	635	1520	7.68	230/1/50	37	
ACI/R	463/218S	132.20	613.60	64.50	4	630	29600	635	1520	7.68	230/1/50	37	
ACI/R	563/250S	156.56	575.30	60.50	5	630	39000	635	1900	9.60	230/1/50	38	
ACI/R	563/279S	166.95	767.10	80.60	5	630	37000	635	1900	9.60	230/1/50	38	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquered
		EUR	EUR
ACI/R	163/38.6S	S/P.	S/P.
ACI/R	163/46.6S	S/P.	S/P.
ACI/R	163/54.5S	S/P.	S/P.
ACI/R	263/77.5S	S/P.	S/P.
ACI/R	263/96.9S	S/P.	S/P.
ACI/R	263/112S	S/P.	S/P.
ACI/R	363/116S	S/P.	S/P.
ACI/R	363/153S	S/P.	S/P.
ACI/R	363/171S	S/P.	S/P.
ACI/R	363/182S	S/P.	S/P.
ACI/R	463/194S	S/P.	S/P.
ACI/R	463/218S	S/P.	S/P.
ACI/R	563/250S	S/P.	S/P.
ACI/R	563/279S	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

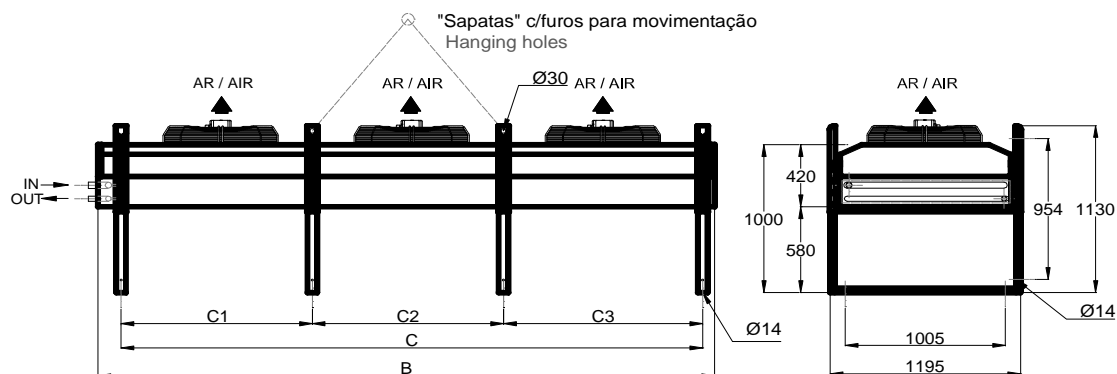
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3			
	in	in	mm					Kg	m ³	
	1 3/8	1 1/8	1520	1250	-	-	-	172	1.65	ACI/R 163/38.6S
	1 3/8	1 1/8	1520	1250	-	-	-	187	1.65	ACI/R 163/46.6S
	1 3/8	1 1/8	1520	1250	-	-	-	201	1.65	ACI/R 163/54.5S
	1 5/8	1 3/8	2720	2450	-	-	-	256	2.91	ACI/R 263/77.5S
	1 5/8	1 3/8	2720	2450	-	-	-	283	2.91	ACI/R 263/96.9S
	2 1/8	1 5/8	2720	2450	-	-	-	311	2.91	ACI/R 263/112S
	2 1/8	1 5/8	3920	3650	-	-	-	404	4.18	ACI/R 363/116S
	2 1/8	1 5/8	3920	3650	-	-	-	447	4.18	ACI/R 363/153S
	2 1/8	1 5/8	3920	3650	-	-	-	488	4.18	ACI/R 363/171S
	2 1/8	1 5/8	3920	3650	-	-	-	528	4.18	ACI/R 363/182S
	2 5/8	2 1/8	5120	4850	1200	2400	1250	541	5.44	ACI/R 463/194S
	2 5/8	2 1/8	5120	4850	1200	2400	1250	595	5.44	ACI/R 463/218S
	2 5/8	2 1/8	6320	6050	1200	3600	1250	639	6.70	ACI/R 563/250S
	2 5/8	2 1/8	6320	6050	1200	3600	1250	705	6.70	ACI/R 563/279S



ACP

Condensadores Condensers

Espaçamento Fin Spacing

2,1 mm

Ø Ventiladores Ø Fans

800 mm



Modelo Type		Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
		kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
ACP/M	280/103T	102.90	204.60	21.50	2	800	43400	895	4000	8.60	Δ 400/3/50	46	
ACP/M	280/103Y	98.70	204.60	21.50	2	800	34800	685	2540	5.00	Y 400/3/50	42	
ACP/M	280/140T	139.65	306.80	32.30	2	800	41200	895	4000	8.60	Δ 400/3/50	46	
ACP/M	280/140Y	119.28	306.80	32.30	2	800	32800	685	2540	5.00	Y 400/3/50	42	
ACP/M	280/156T	155.93	409.10	43.00	2	800	39400	895	4000	8.60	Δ 400/3/50	46	
ACP/M	280/156Y	130.31	409.10	43.00	2	800	31200	685	2540	5.00	Y 400/3/50	42	
ACP/M	380/162T	162.23	306.80	32.30	3	800	65100	895	6000	12.90	Δ 400/3/50	48	
ACP/M	380/162Y	142.49	306.80	32.30	3	800	52200	685	3810	7.50	Y 400/3/50	44	
ACP/M	380/202T	201.71	460.20	48.40	3	800	61800	895	6000	12.90	Δ 400/3/50	48	
ACP/M	380/202Y	173.25	460.20	48.40	3	800	49200	685	3810	7.50	Y 400/3/50	44	
ACP/M	380/226T	226.28	613.60	64.50	3	800	59100	895	6000	12.90	Δ 400/3/50	48	
ACP/M	380/226Y	190.89	613.60	64.50	3	800	46800	685	3810	7.50	Y 400/3/50	44	
ACP/M	480/280T	279.93	613.60	64.50	4	800	82400	895	8000	17.20	Δ 400/3/50	49	
ACP/M	480/280Y	238.77	613.60	64.50	4	800	65600	685	5080	10.00	Y 400/3/50	45	
ACP/M	480/311T	311.33	819.20	86.00	4	800	78800	895	8000	17.20	Δ 400/3/50	49	
ACP/M	480/311Y	260.61	819.20	86.00	4	800	62400	685	5080	10.00	Y 400/3/50	45	
ACP/M	480/329T	328.86	1022.70	107.50	4	800	75600	895	8000	17.20	Δ 400/3/50	49	
ACP/M	480/329Y	271.53	1022.70	107.50	4	800	59700	685	5080	10.00	Y 400/3/50	45	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer
		EUR	EUR
ACP/M 280/103T	S/P.	S/P.	S/P.
ACP/M 280/103Y	S/P.	S/P.	S/P.
ACP/M 280/140T	S/P.	S/P.	S/P.
ACP/M 280/140Y	S/P.	S/P.	S/P.
ACP/M 280/156T	S/P.	S/P.	S/P.
ACP/M 280/156Y	S/P.	S/P.	S/P.
ACP/M 380/162T	S/P.	S/P.	S/P.
ACP/M 380/162Y	S/P.	S/P.	S/P.
ACP/M 380/202T	S/P.	S/P.	S/P.
ACP/M 380/202Y	S/P.	S/P.	S/P.
ACP/M 380/226T	S/P.	S/P.	S/P.
ACP/M 380/226Y	S/P.	S/P.	S/P.
ACP/M 480/280T	S/P.	S/P.	S/P.
ACP/M 480/280Y	S/P.	S/P.	S/P.
ACP/M 480/311T	S/P.	S/P.	S/P.
ACP/M 480/311Y	S/P.	S/P.	S/P.
ACP/M 480/329T	S/P.	S/P.	S/P.
ACP/M 480/329Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressor

P_{abs} - Potência absorvida do compressor

T_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacity

P_{abs} - Compressor absorbed power

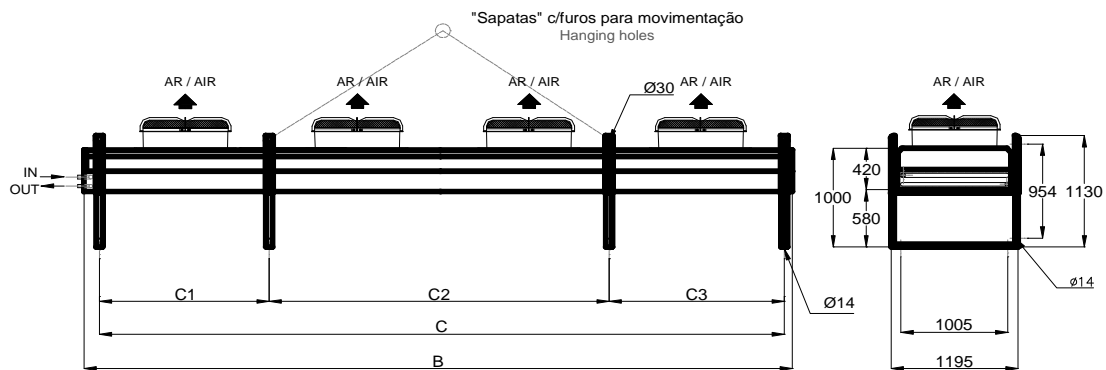
T_E - Evaporating temperature

TD - Temperature difference

Motores EC disponíveis sob pedido

EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3			
	in	in			mm			Kg	m ³	
	2 1/8	1 5/8	3520	3250	-	-	-	329	3.90	ACP/M 280/103T
	2 1/8	1 5/8	3520	3250	-	-	-	329	3.90	ACP/M 280/103Y
	2 1/8	1 5/8	3520	3250	-	-	-	368	3.90	ACP/M 280/140T
	2 1/8	1 5/8	3520	3250	-	-	-	368	3.90	ACP/M 280/140Y
	2 1/8	1 5/8	3520	3250	-	-	-	404	3.90	ACP/M 280/156T
	2 1/8	1 5/8	3520	3250	-	-	-	404	3.90	ACP/M 280/156Y
	2 1/8	1 5/8	5120	4850	1600	1600	1650	516	5.65	ACP/M 380/162T
	2 1/8	1 5/8	5120	4850	1600	1600	1650	516	5.65	ACP/M 380/162Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	570	5.65	ACP/M 380/202T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	570	5.65	ACP/M 380/202Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	623	5.65	ACP/M 380/226T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	623	5.65	ACP/M 380/226Y
	2 5/8	2 1/8	6720	6450	1600	3200	1650	707	7.40	ACP/M 480/280T
	2 5/8	2 1/8	6720	6450	1600	3200	1650	707	7.40	ACP/M 480/280Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	778	7.40	ACP/M 480/311T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	778	7.40	ACP/M 480/311Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	849	7.40	ACP/M 480/329T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	849	7.40	ACP/M 480/329Y



ACP

Condensadores Condensers

Espaçamento Fin Spacing

2,1 mm

Ø Ventiladores Ø Fans

800 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído Noise level	
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACP/R 280/103T	95.03	204.60	21.50	2	800	32600	660	1960	4.82	Δ 400/3/50	41	
ACP/R 280/103Y	80.75	204.60	21.50	2	800	25600	515	1140	2.42	Y 400/3/50	35	
ACP/R 280/140T	114.77	306.80	32.30	2	800	31100	660	1960	4.82	Δ 400/3/50	41	
ACP/R 280/140Y	95.13	306.80	32.30	2	800	24200	515	1140	2.42	Y 400/3/50	35	
ACP/R 280/156T	125.16	409.10	43.00	2	800	29600	660	1960	4.82	Δ 400/3/50	41	
ACP/R 280/156Y	101.22	409.10	43.00	2	800	22800	515	1140	2.42	Y 400/3/50	35	
ACP/R 380/162T	136.61	306.80	32.30	3	800	48900	660	2940	7.23	Δ 400/3/50	43	
ACP/R 380/162Y	116.76	306.80	32.30	3	800	38400	515	1710	3.63	Y 400/3/50	37	
ACP/R 380/202T	166.85	460.20	48.40	3	800	46650	660	2940	7.23	Δ 400/3/50	43	
ACP/R 380/202Y	139.34	460.20	48.40	3	800	36300	515	1710	3.63	Y 400/3/50	37	
ACP/R 380/226T	183.33	613.60	64.50	3	800	44400	660	2940	7.23	Δ 400/3/50	43	
ACP/R 380/226Y	149.42	613.60	64.50	3	800	34200	515	1710	3.63	Y 400/3/50	37	
ACP/R 480/280T	229.74	613.60	64.50	4	800	62200	660	3920	9.64	Δ 400/3/50	44	
ACP/R 480/280Y	190.47	613.60	64.50	4	800	48400	515	2280	4.84	Y 400/3/50	38	
ACP/R 480/311T	250.01	819.20	86.00	4	800	59200	660	3920	9.64	Δ 400/3/50	44	
ACP/R 480/311Y	202.34	819.20	86.00	4	800	45600	515	2280	4.84	Y 400/3/50	38	
ACP/R 480/329T	259.14	1022.70	107.50	4	800	56400	660	3920	9.64	Δ 400/3/50	44	
ACP/R 480/329Y	205.28	1022.70	107.50	4	800	43000	515	2280	4.84	Y 400/3/50	38	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer Painted
	EUR	EUR	
ACP/R 280/103T	S/P.	S/P.	S/P.
ACP/R 280/103Y	S/P.	S/P.	S/P.
ACP/R 280/140T	S/P.	S/P.	S/P.
ACP/R 280/140Y	S/P.	S/P.	S/P.
ACP/R 280/156T	S/P.	S/P.	S/P.
ACP/R 280/156Y	S/P.	S/P.	S/P.
ACP/R 380/162T	S/P.	S/P.	S/P.
ACP/R 380/162Y	S/P.	S/P.	S/P.
ACP/R 380/202T	S/P.	S/P.	S/P.
ACP/R 380/202Y	S/P.	S/P.	S/P.
ACP/R 380/226T	S/P.	S/P.	S/P.
ACP/R 380/226Y	S/P.	S/P.	S/P.
ACP/R 480/280T	S/P.	S/P.	S/P.
ACP/R 480/280Y	S/P.	S/P.	S/P.
ACP/R 480/311T	S/P.	S/P.	S/P.
ACP/R 480/311Y	S/P.	S/P.	S/P.
ACP/R 480/329T	S/P.	S/P.	S/P.
ACP/R 480/329Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C		Open			Open			Open			Open			Open	
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressor

P_{abs} - Potência absorvida do compressor

T_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacity

P_{abs} - Compressor absorbed power

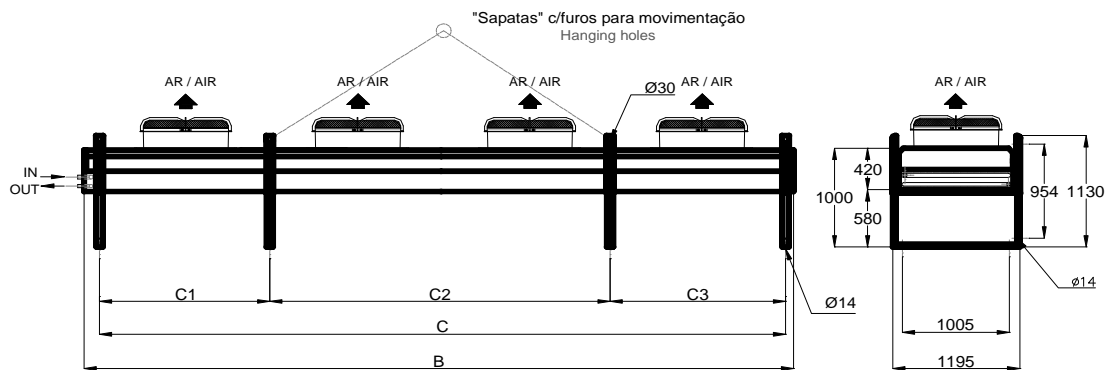
T_E - Evaporating temperature

TD - Temperature difference

Motores EC disponíveis sob pedido

EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3			
	in	in			mm			Kg	m³	
	2 1/8	1 5/8	3520	3250	-	-	-	329	3.90	ACP/R 280/103T
	2 1/8	1 5/8	3520	3250	-	-	-	329	3.90	ACP/R 280/103Y
	2 1/8	1 5/8	3520	3250	-	-	-	368	3.90	ACP/R 280/140T
	2 1/8	1 5/8	3520	3250	-	-	-	368	3.90	ACP/R 280/140Y
	2 1/8	1 5/8	3520	3250	-	-	-	404	3.90	ACP/R 280/156T
	2 1/8	1 5/8	3520	3250	-	-	-	404	3.90	ACP/R 280/156Y
	2 1/8	1 5/8	5120	4850	1600	1600	1650	516	5.65	ACP/R 380/162T
	2 1/8	1 5/8	5120	4850	1600	1600	1650	516	5.65	ACP/R 380/162Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	570	5.65	ACP/R 380/202T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	570	5.65	ACP/R 380/202Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	623	5.65	ACP/R 380/226T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	623	5.65	ACP/R 380/226Y
	2 5/8	2 1/8	6720	6450	1600	3200	1650	707	7.40	ACP/R 480/280T
	2 5/8	2 1/8	6720	6450	1600	3200	1650	707	7.40	ACP/R 480/280Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	778	7.40	ACP/R 480/311T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	778	7.40	ACP/R 480/311Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	849	7.40	ACP/R 480/329T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	849	7.40	ACP/R 480/329Y



ACP

Condensadores Condensers

Espaçamento Fin Spacing

2,1 mm

Ø Ventiladores Ø Fans

800 mm



Modelo Type		Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
		kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACP/L	280/103T	68.78	204.60	21.50	2	800	20800	435	740	2.30	Δ 400/3/50	30	
ACP/L	280/103Y	58.38	204.60	21.50	2	800	16800	330	400	0.96	Y 400/3/50	25	
ACP/L	280/140T	80.54	306.80	32.30	2	800	19800	435	740	2.30	Δ 400/3/50	30	
ACP/L	280/140Y	67.31	306.80	32.30	2	800	15800	330	400	0.96	Y 400/3/50	25	
ACP/L	280/156T	85.58	409.10	43.00	2	800	18800	435	740	2.30	Δ 400/3/50	30	
ACP/L	280/156Y	70.56	409.10	43.00	2	800	14900	330	400	0.96	Y 400/3/50	25	
ACP/L	380/162T	100.17	306.80	32.30	3	800	31200	435	1110	3.45	Δ 400/3/50	32	
ACP/L	380/162Y	85.58	306.80	32.30	3	800	25200	330	600	1.44	Y 400/3/50	27	
ACP/L	380/202T	118.55	460.20	48.40	3	800	29700	435	1110	3.45	Δ 400/3/50	32	
ACP/L	380/202Y	99.54	460.20	48.40	3	800	23700	330	600	1.44	Y 400/3/50	27	
ACP/L	380/226T	126.95	613.60	64.50	3	800	28200	435	1110	3.45	Δ 400/3/50	32	
ACP/L	380/226Y	104.90	613.60	64.50	3	800	22350	330	600	1.44	Y 400/3/50	27	
ACP/L	480/280T	161.07	613.60	64.50	4	800	39600	435	1480	4.60	Δ 400/3/50	33	
ACP/L	480/280Y	134.61	613.60	64.50	4	800	31600	330	800	1.92	Y 400/3/50	28	
ACP/L	480/311T	171.26	819.20	86.00	4	800	37600	435	1480	4.60	Δ 400/3/50	33	
ACP/L	480/311Y	141.02	819.20	86.00	4	800	29800	330	800	1.92	Y 400/3/50	28	
ACP/L	480/329T	175.25	1022.70	107.50	4	800	36000	435	1480	4.60	Δ 400/3/50	33	
ACP/L	480/329Y	139.55	1022.70	107.50	4	800	28000	330	800	1.92	Y 400/3/50	28	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquer
	EUR	EUR	EUR
ACP/L 280/103T	S/P.	S/P.	S/P.
ACP/L 280/103Y	S/P.	S/P.	S/P.
ACP/L 280/140T	S/P.	S/P.	S/P.
ACP/L 280/140Y	S/P.	S/P.	S/P.
ACP/L 280/156T	S/P.	S/P.	S/P.
ACP/L 280/156Y	S/P.	S/P.	S/P.
ACP/L 380/162T	S/P.	S/P.	S/P.
ACP/L 380/162Y	S/P.	S/P.	S/P.
ACP/L 380/202T	S/P.	S/P.	S/P.
ACP/L 380/202Y	S/P.	S/P.	S/P.
ACP/L 380/226T	S/P.	S/P.	S/P.
ACP/L 380/226Y	S/P.	S/P.	S/P.
ACP/L 480/280T	S/P.	S/P.	S/P.
ACP/L 480/280Y	S/P.	S/P.	S/P.
ACP/L 480/311T	S/P.	S/P.	S/P.
ACP/L 480/311Y	S/P.	S/P.	S/P.
ACP/L 480/329T	S/P.	S/P.	S/P.
ACP/L 480/329Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressor

P_{abs} - Potência absorvida do compressor

T_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacity

P_{abs} - Compressor absorbed power

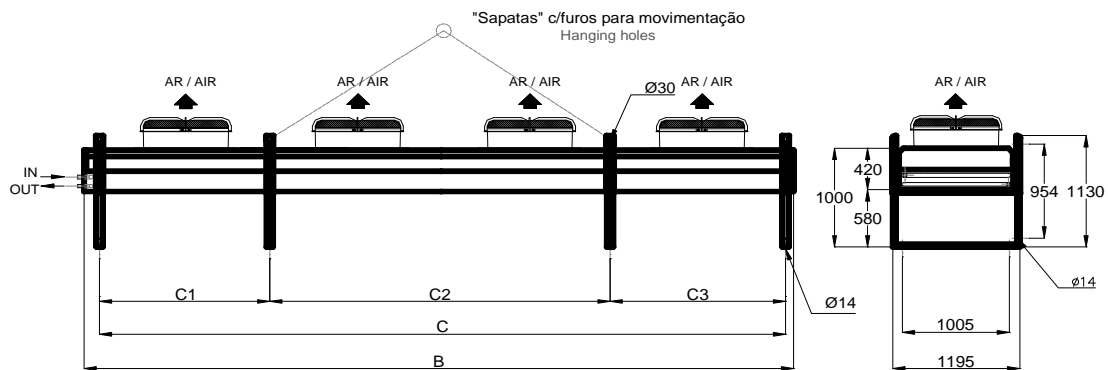
T_E - Evaporating temperature

TD - Temperature difference

Motores EC disponíveis sob pedido

EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3			
	in	in			mm			Kg	m³	
	2 1/8	1 5/8	3520	3250	-	-	-	329	3.90	ACP/L 280/103T
	2 1/8	1 5/8	3520	3250	-	-	-	329	3.90	ACP/L 280/103Y
	2 1/8	1 5/8	3520	3250	-	-	-	368	3.90	ACP/L 280/140T
	2 1/8	1 5/8	3520	3250	-	-	-	368	3.90	ACP/L 280/140Y
	2 1/8	1 5/8	3520	3250	-	-	-	404	3.90	ACP/L 280/156T
	2 1/8	1 5/8	3520	3250	-	-	-	404	3.90	ACP/L 280/156Y
	2 1/8	1 5/8	5120	4850	1600	1600	1650	516	5.65	ACP/L 380/162T
	2 1/8	1 5/8	5120	4850	1600	1600	1650	516	5.65	ACP/L 380/162Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	570	5.65	ACP/L 380/202T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	570	5.65	ACP/L 380/202Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	623	5.65	ACP/L 380/226T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	623	5.65	ACP/L 380/226Y
	2 5/8	2 1/8	6720	6450	1600	3200	1650	707	7.40	ACP/L 480/280T
	2 5/8	2 1/8	6720	6450	1600	3200	1650	707	7.40	ACP/L 480/280Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	778	7.40	ACP/L 480/311T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	778	7.40	ACP/L 480/311Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	849	7.40	ACP/L 480/329T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	849	7.40	ACP/L 480/329Y



ACP

Condensadores Condensers

Espaçamento Fin Spacing

2,1 mm

Ø Ventiladores Ø Fans

800 mm



Modelo Type		Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
		kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
ACP/N	280/103T	58.38	204.60	21.50	2	800	16800	360	460	1.20	Δ 400/3/50	28	
ACP/N	280/103Y	44.63	204.60	21.50	2	800	11600	250	200	0.50	Y 400/3/50	19	
ACP/N	280/140T	67.31	306.80	32.30	2	800	15800	360	460	1.20	Δ 400/3/50	28	
ACP/N	280/140Y	49.77	306.80	32.30	2	800	10800	250	200	0.50	Y 400/3/50	19	
ACP/N	280/156T	70.56	409.10	43.00	2	800	14900	360	460	1.20	Δ 400/3/50	28	
ACP/N	280/156Y	50.82	409.10	43.00	2	800	10200	250	200	0.50	Y 400/3/50	19	
ACP/N	380/162T	85.58	306.80	32.30	3	800	25200	360	690	1.80	Δ 400/3/50	30	
ACP/N	380/162Y	66.26	306.80	32.30	3	800	17400	250	300	0.75	Y 400/3/50	21	
ACP/N	380/202T	99.54	460.20	48.40	3	800	23700	360	690	1.80	Δ 400/3/50	30	
ACP/N	380/202Y	74.03	460.20	48.40	3	800	16200	250	300	0.75	Y 400/3/50	21	
ACP/N	380/226T	104.90	613.60	64.50	3	800	22350	360	690	1.80	Δ 400/3/50	30	
ACP/N	380/226Y	76.02	613.60	64.50	3	800	15300	250	300	0.75	Y 400/3/50	21	
ACP/N	480/280T	134.61	613.60	64.50	4	800	31600	360	920	2.40	Δ 400/3/50	31	
ACP/N	480/280Y	99.44	613.60	64.50	4	800	21600	250	400	1.00	Y 400/3/50	22	
ACP/N	480/311T	141.02	819.20	86.00	4	800	29800	360	920	2.40	Δ 400/3/50	31	
ACP/N	480/311Y	101.66	819.20	86.00	4	800	20400	250	400	1.00	Y 400/3/50	22	
ACP/N	480/329T	139.55	1022.70	107.50	4	800	28000	360	920	2.40	Δ 400/3/50	31	
ACP/N	480/329Y	101.85	1022.70	107.50	4	800	19600	250	400	1.00	Y 400/3/50	22	

Modelo Type	Preço Price	Opções Options	
		Alheta revestida Coated fins	Lacado Lacquered
	EUR	EUR	EUR
ACP/N 280/103T	S/P.	S/P.	S/P.
ACP/N 280/103Y	S/P.	S/P.	S/P.
ACP/N 280/140T	S/P.	S/P.	S/P.
ACP/N 280/140Y	S/P.	S/P.	S/P.
ACP/N 280/156T	S/P.	S/P.	S/P.
ACP/N 280/156Y	S/P.	S/P.	S/P.
ACP/N 380/162T	S/P.	S/P.	S/P.
ACP/N 380/162Y	S/P.	S/P.	S/P.
ACP/N 380/202T	S/P.	S/P.	S/P.
ACP/N 380/202Y	S/P.	S/P.	S/P.
ACP/N 380/226T	S/P.	S/P.	S/P.
ACP/N 380/226Y	S/P.	S/P.	S/P.
ACP/N 480/280T	S/P.	S/P.	S/P.
ACP/N 480/280Y	S/P.	S/P.	S/P.
ACP/N 480/311T	S/P.	S/P.	S/P.
ACP/N 480/311Y	S/P.	S/P.	S/P.
ACP/N 480/329T	S/P.	S/P.	S/P.
ACP/N 480/329Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressor

P_{abs} - Potência absorvida do compressor

T_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacity

P_{abs} - Compressor absorbed power

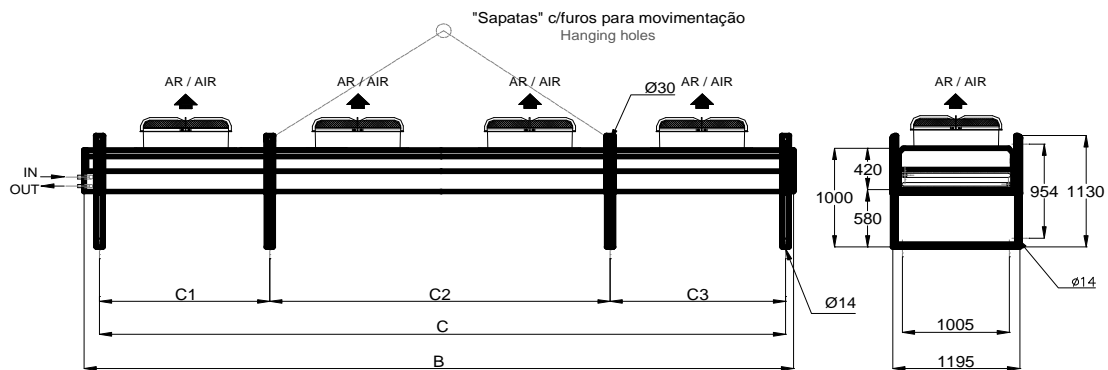
T_E - Evaporating temperature

TD - Temperature difference

Motores EC disponíveis sob pedido

EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3			
	in	in			mm			Kg	m ³	
	2 1/8	1 5/8	3520	3250	-	-	-	329	3.90	ACP/N 280/103T
	2 1/8	1 5/8	3520	3250	-	-	-	329	3.90	ACP/N 280/103Y
	2 1/8	1 5/8	3520	3250	-	-	-	368	3.90	ACP/N 280/140T
	2 1/8	1 5/8	3520	3250	-	-	-	368	3.90	ACP/N 280/140Y
	2 1/8	1 5/8	3520	3250	-	-	-	404	3.90	ACP/N 280/156T
	2 1/8	1 5/8	3520	3250	-	-	-	404	3.90	ACP/N 280/156Y
	2 1/8	1 5/8	5120	4850	1600	1600	1650	516	5.65	ACP/N 380/162T
	2 1/8	1 5/8	5120	4850	1600	1600	1650	516	5.65	ACP/N 380/162Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	570	5.65	ACP/N 380/202T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	570	5.65	ACP/N 380/202Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	623	5.65	ACP/N 380/226T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	623	5.65	ACP/N 380/226Y
	2 5/8	2 1/8	6720	6450	1600	3200	1650	707	7.40	ACP/N 480/280T
	2 5/8	2 1/8	6720	6450	1600	3200	1650	707	7.40	ACP/N 480/280Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	778	7.40	ACP/N 480/311T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	778	7.40	ACP/N 480/311Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	849	7.40	ACP/N 480/329T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	849	7.40	ACP/N 480/329Y



ACPD

Condensadores Condensers

Espaçamento Fin Spacing

2,1 mm

Ø Ventiladores Ø Fans

800 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído Noise level (1)	
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACPD/M 680/325T	324.45	613.60	64.60	6	800	130200	895	12000	25.80	Δ 400/3/50	51	
ACPD/M 680/325Y	284.97	613.60	64.60	6	800	104400	685	7620	15.00	Y 400/3/50	47	
ACPD/M 680/403T	403.41	920.40	96.80	6	800	123600	895	12000	25.80	Δ 400/3/50	51	
ACPD/M 680/403Y	346.50	920.40	96.80	6	800	98400	685	7620	15.00	Y 400/3/50	47	
ACPD/M 680/453T	452.55	1227.20	129.00	6	800	118200	895	12000	25.80	Δ 400/3/50	51	
ACPD/M 680/453Y	381.78	1227.20	129.00	6	800	93600	685	7620	15.00	Y 400/3/50	47	
ACPD/M 880/560T	559.86	1227.20	129.00	8	800	164800	895	16000	34.40	Δ 400/3/50	52	
ACPD/M 880/560Y	477.54	1227.20	129.00	8	800	131200	685	10160	20.00	Y 400/3/50	48	
ACPD/M 880/623T	622.65	1638.40	172.00	8	800	157600	895	16000	34.40	Δ 400/3/50	52	
ACPD/M 880/623Y	521.22	1638.40	172.00	8	800	124800	685	10160	20.00	Y 400/3/50	48	
ACPD/M 880/658T	657.72	2045.40	215.00	8	800	151200	895	16000	34.40	Δ 400/3/50	52	
ACPD/M 880/658Y	543.06	2045.40	215.00	8	800	119400	685	10160	20.00	Y 400/3/50	48	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer Painted
	EUR	EUR	
ACPD/M 680/325T	S/P.	S/P.	S/P.
ACPD/M 680/325Y	S/P.	S/P.	S/P.
ACPD/M 680/403T	S/P.	S/P.	S/P.
ACPD/M 680/403Y	S/P.	S/P.	S/P.
ACPD/M 680/453T	S/P.	S/P.	S/P.
ACPD/M 680/453Y	S/P.	S/P.	S/P.
ACPD/M 880/560T	S/P.	S/P.	S/P.
ACPD/M 880/560Y	S/P.	S/P.	S/P.
ACPD/M 880/623T	S/P.	S/P.	S/P.
ACPD/M 880/623Y	S/P.	S/P.	S/P.
ACPD/M 880/658T	S/P.	S/P.	S/P.
ACPD/M 880/658Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C		Open			Open			Open			Open			Open	
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressor

P_{abs} - Potência absorvida do compressor

T_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacity

P_{abs} - Compressor absorbed power

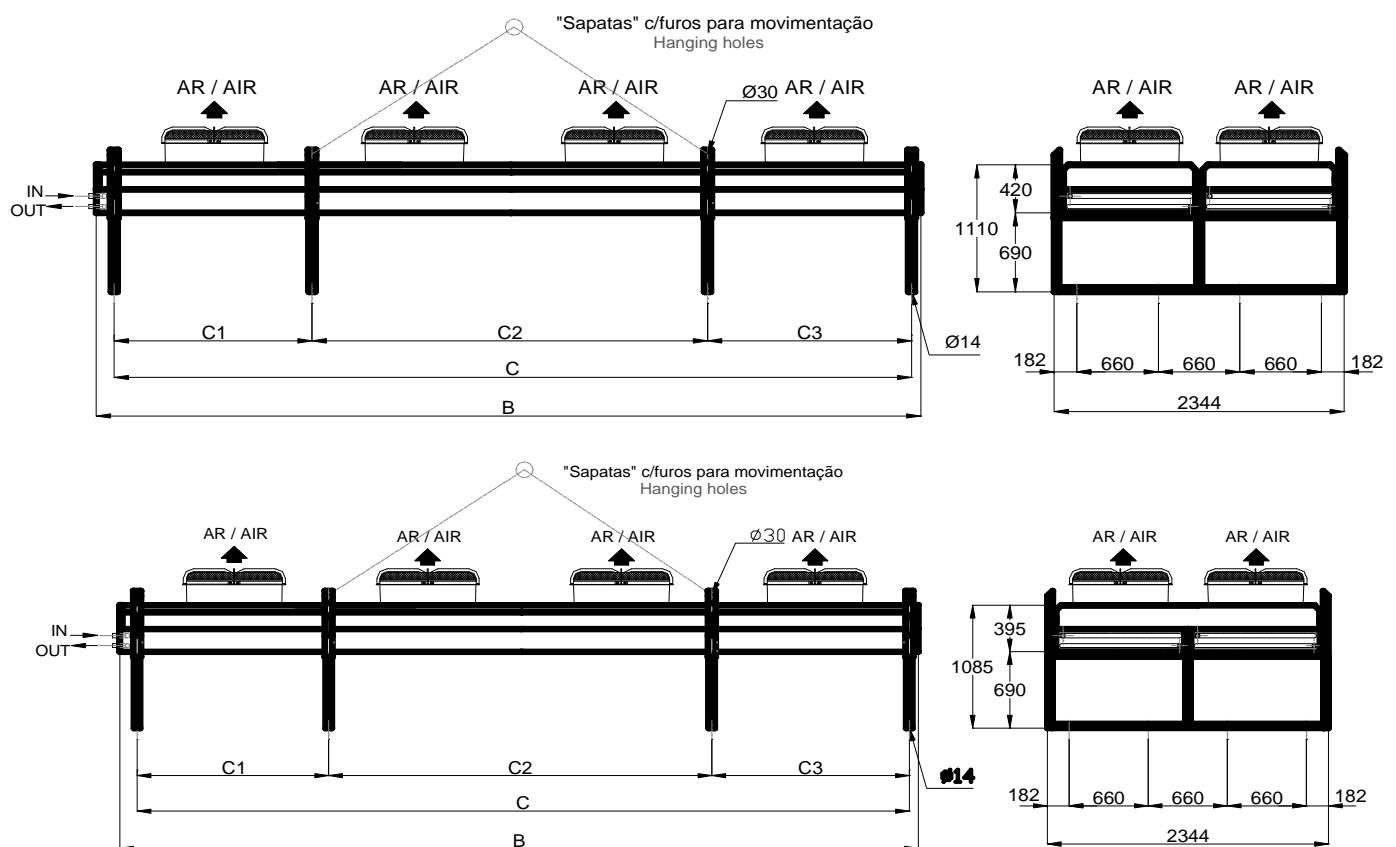
T_E - Evaporating temperature

TD - Temperature difference

Motores EC disponíveis sob pedido

EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type	
	Entrada Inlet	Saída Outlet									
	in	in	B	C	C1	C2	C3				
	2 x 2 1/8	2 x 1 5/8	5120	4850	1600	1600	1650	1032	11.30	ACPD/M	680/325T
	2 x 2 1/8	2 x 1 5/8	5120	4850	1600	1600	1650	1032	11.30	ACPD/M	680/325Y
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1139	11.30	ACPD/M	680/403T
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1139	11.30	ACPD/M	680/403Y
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1247	11.30	ACPD/M	680/453T
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1247	11.30	ACPD/M	680/453Y
	2 x 2 5/8	2 x 2 1/8	6720	6450	1600	3200	1650	1414	14.80	ACPD/M	880/560T
	2 x 2 5/8	2 x 2 1/8	6720	6450	1600	3200	1650	1414	14.80	ACPD/M	880/560Y
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1556	14.80	ACPD/M	880/623T
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1556	14.80	ACPD/M	880/623Y
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1698	14.80	ACPD/M	880/658T
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1698	14.80	ACPD/M	880/658Y



Execução especial
Special execution

QUIRON
by centauro

ACPD

Condensadores Condensers
E espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 800 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACPD/R 680/325T	273.21	613.60	64.60	6	800	97800	660	5880	14.46	Δ 400/3/50	46	
ACPD/R 680/325Y	233.52	613.60	64.60	6	800	76800	515	3420	7.26	Y 400/3/50	40	
ACPD/R 680/403T	333.69	920.40	96.80	6	800	93300	660	5880	14.46	Δ 400/3/50	46	
ACPD/R 680/403Y	278.67	920.40	96.80	6	800	72600	515	3420	7.26	Y 400/3/50	40	
ACPD/R 680/453T	366.66	1227.20	129.00	6	800	88800	660	5880	14.46	Δ 400/3/50	46	
ACPD/R 680/453Y	298.83	1227.20	129.00	6	800	68400	515	3420	7.26	Y 400/3/50	40	
ACPD/R 880/560T	459.48	1227.20	129.00	8	800	124400	660	7840	19.28	Δ 400/3/50	47	
ACPD/R 880/560Y	380.94	1227.20	129.00	8	800	96800	515	4560	9.68	Y 400/3/50	41	
ACPD/R 880/623T	500.01	1638.40	172.00	8	800	118400	660	7840	19.28	Δ 400/3/50	47	
ACPD/R 880/623Y	404.67	1638.40	172.00	8	800	91200	515	4560	9.68	Y 400/3/50	41	
ACPD/R 880/658T	518.28	2045.40	215.00	8	800	112800	660	7840	19.28	Δ 400/3/50	47	
ACPD/R 880/658Y	410.55	2045.40	215.00	8	800	86000	515	4560	9.68	Y 400/3/50	41	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer
		EUR	EUR
ACPD/R 680/325T	S/P.	S/P.	S/P.
ACPD/R 680/325Y	S/P.	S/P.	S/P.
ACPD/R 680/403T	S/P.	S/P.	S/P.
ACPD/R 680/403Y	S/P.	S/P.	S/P.
ACPD/R 680/453T	S/P.	S/P.	S/P.
ACPD/R 680/453Y	S/P.	S/P.	S/P.
ACPD/R 880/560T	S/P.	S/P.	S/P.
ACPD/R 880/560Y	S/P.	S/P.	S/P.
ACPD/R 880/623T	S/P.	S/P.	S/P.
ACPD/R 880/623Y	S/P.	S/P.	S/P.
ACPD/R 880/658T	S/P.	S/P.	S/P.
ACPD/R 880/658Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

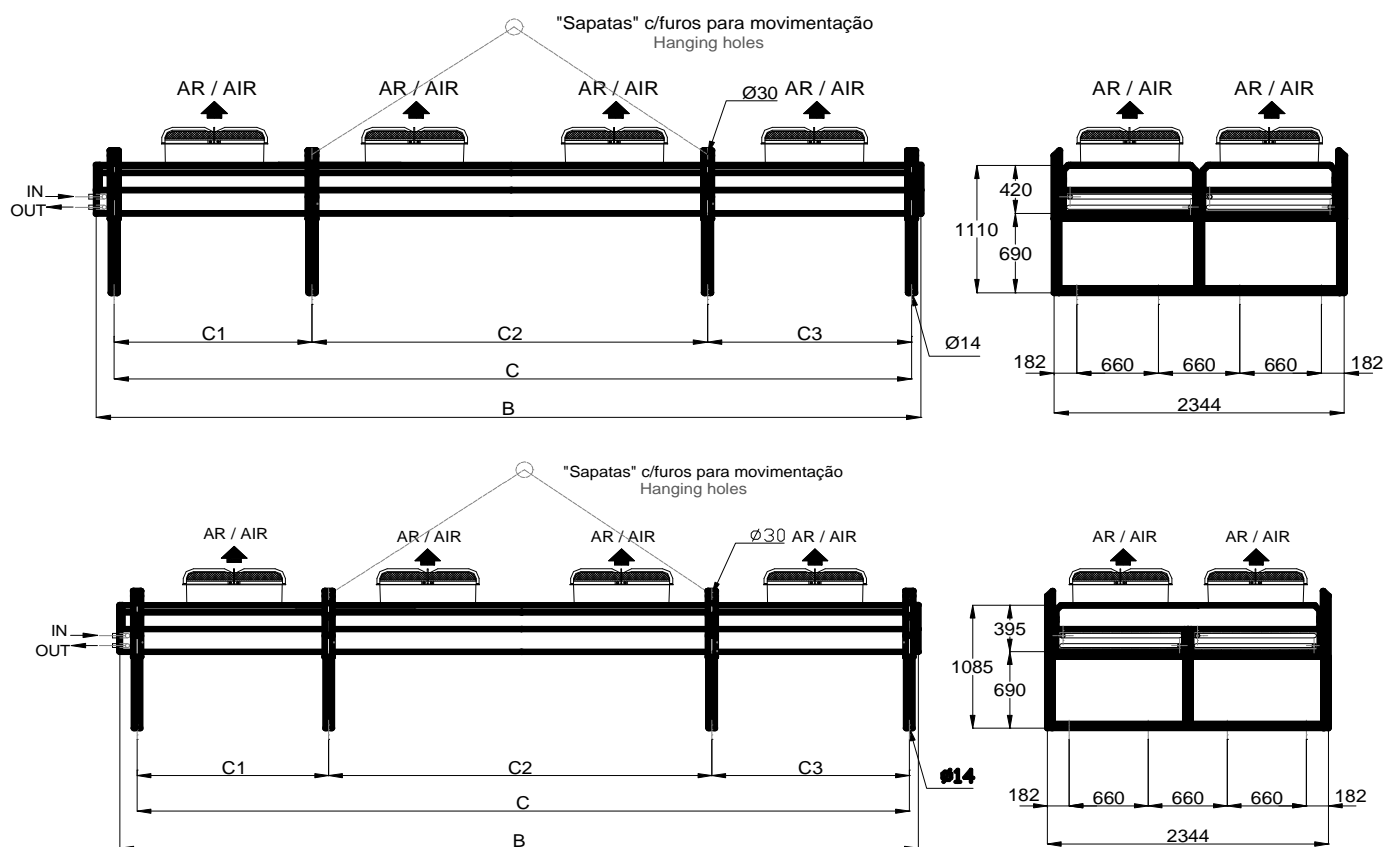
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type	
	Entrada Inlet	Saída Outlet									
	in	in	B	C	C1	C2	C3				
	2 x 2 1/8	2 x 1 5/8	5120	4850	1600	1600	1650	1032	11.30	ACPD/R	680/325T
	2 x 2 1/8	2 x 1 5/8	5120	4850	1600	1600	1650	1032	11.30	ACPD/R	680/325Y
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1139	11.30	ACPD/R	680/403T
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1139	11.30	ACPD/R	680/403Y
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1247	11.30	ACPD/R	680/453T
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1247	11.30	ACPD/R	680/453Y
	2 x 2 5/8	2 x 2 1/8	6720	6450	1600	3200	1650	1414	14.80	ACPD/R	880/560T
	2 x 2 5/8	2 x 2 1/8	6720	6450	1600	3200	1650	1414	14.80	ACPD/R	880/560Y
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1556	14.80	ACPD/R	880/623T
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1556	14.80	ACPD/R	880/623Y
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1698	14.80	ACPD/R	880/658T
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1698	14.80	ACPD/R	880/658Y



Execução especial
Special execution

QUIRON
by centauro

ACPD

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 800 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído Noise level
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)
ACPD/L 680/325T	200.34	613.60	64.60	6	800	62400	435	2220	6.90	Δ 400/3/50	35
ACPD/L 680/325Y	171.15	613.60	64.60	6	800	50400	330	1200	2.88	Y 400/3/50	30
ACPD/L 680/403T	237.09	920.40	96.80	6	800	59400	435	2220	6.90	Δ 400/3/50	35
ACPD/L 680/403Y	199.08	920.40	96.80	6	800	47400	330	1200	2.88	Y 400/3/50	30
ACPD/L 680/453T	253.89	1227.20	129.00	6	800	56400	435	2220	6.90	Δ 400/3/50	35
ACPD/L 680/453Y	209.79	1227.20	129.00	6	800	44700	330	1200	2.88	Y 400/3/50	30
ACPD/L 880/560T	322.14	1227.20	129.00	8	800	79200	435	2960	9.20	Δ 400/3/50	36
ACPD/L 880/560Y	269.22	1227.20	129.00	8	800	63200	330	1600	3.84	Y 400/3/50	31
ACPD/L 880/623T	342.51	1638.40	172.00	8	800	75200	435	2960	9.20	Δ 400/3/50	36
ACPD/L 880/623Y	282.03	1638.40	172.00	8	800	59600	330	1600	3.84	Y 400/3/50	31
ACPD/L 880/658T	350.49	2045.40	215.00	8	800	72000	435	2960	9.20	Δ 400/3/50	36
ACPD/L 880/658Y	279.09	2045.40	215.00	8	800	56000	330	1600	3.84	Y 400/3/50	31

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer Painted
	EUR	EUR	
ACPD/L 680/325T	S/P.	S/P.	S/P.
ACPD/L 680/325Y	S/P.	S/P.	S/P.
ACPD/L 680/403T	S/P.	S/P.	S/P.
ACPD/L 680/403Y	S/P.	S/P.	S/P.
ACPD/L 680/453T	S/P.	S/P.	S/P.
ACPD/L 680/453Y	S/P.	S/P.	S/P.
ACPD/L 880/560T	S/P.	S/P.	S/P.
ACPD/L 880/560Y	S/P.	S/P.	S/P.
ACPD/L 880/623T	S/P.	S/P.	S/P.
ACPD/L 880/623Y	S/P.	S/P.	S/P.
ACPD/L 880/658T	S/P.	S/P.	S/P.
ACPD/L 880/658Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C		Open			Open			Open			Open			Open	
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

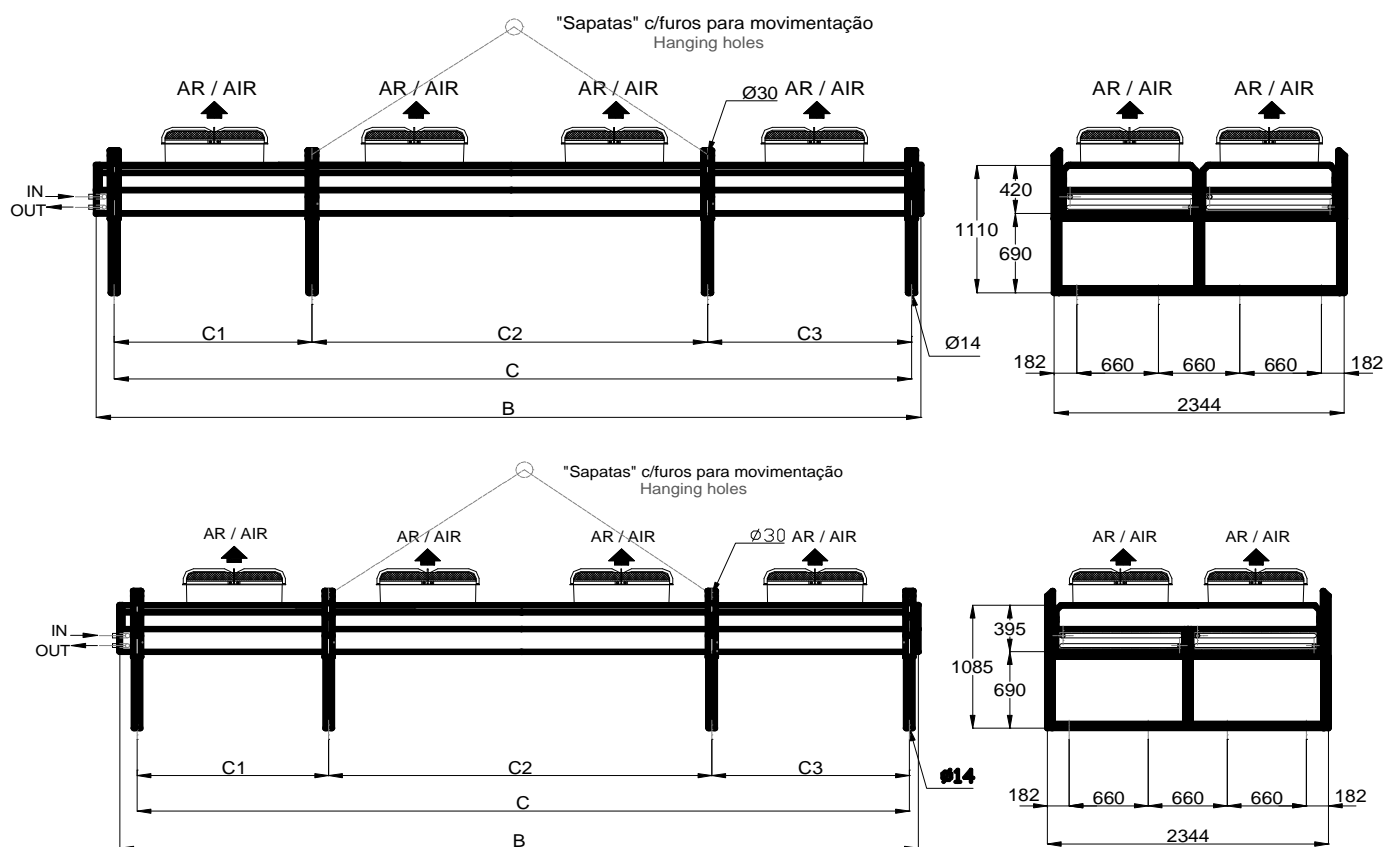
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type	
	Entrada Inlet	Saída Outlet	Dimensões Dimensions								
			B	C	C1	C2	C3				
	in	in	mm					Kg	m ³		
	2 x 2 1/8	2 x 1 5/8	5120	4850	1600	1600	1650	1032	11.30	ACPD/L	680/325T
	2 x 2 1/8	2 x 1 5/8	5120	4850	1600	1600	1650	1032	11.30	ACPD/L	680/325Y
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1139	11.30	ACPD/L	680/403T
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1139	11.30	ACPD/L	680/403Y
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1247	11.30	ACPD/L	680/453T
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1247	11.30	ACPD/L	680/453Y
	2 x 2 5/8	2 x 2 1/8	6720	6450	1600	3200	1650	1414	14.80	ACPD/L	880/560T
	2 x 2 5/8	2 x 2 1/8	6720	6450	1600	3200	1650	1414	14.80	ACPD/L	880/560Y
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1556	14.80	ACPD/L	880/623T
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1556	14.80	ACPD/L	880/623Y
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1698	14.80	ACPD/L	880/658T
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1698	14.80	ACPD/L	880/658Y



Execução especial
Special execution

QUIRON
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ACPD

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 800 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
ACPD/N 680/325T	171.15	613.60	64.60	6	800	50400	360	1380	3.60	Δ 400/3/50	33	
ACPD/N 680/325Y	132.51	613.60	64.60	6	800	34800	250	600	1.50	Y 400/3/50	24	
ACPD/N 680/403T	199.08	920.40	96.80	6	800	47400	360	1380	3.60	Δ 400/3/50	33	
ACPD/N 680/403Y	148.05	920.40	96.80	6	800	32400	250	600	1.50	Y 400/3/50	24	
ACPD/N 680/453T	209.79	1227.20	129.00	6	800	44700	360	1380	3.60	Δ 400/3/50	33	
ACPD/N 680/453Y	152.04	1227.20	129.00	6	800	30600	250	600	1.50	Y 400/3/50	24	
ACPD/N 880/560T	269.22	1227.20	129.00	8	800	63200	360	1840	4.80	Δ 400/3/50	34	
ACPD/N 880/560Y	198.87	1227.20	129.00	8	800	43200	250	800	2.00	Y 400/3/50	25	
ACPD/N 880/623T	282.03	1638.40	172.00	8	800	59600	360	1840	4.80	Δ 400/3/50	34	
ACPD/N 880/623Y	203.32	1638.40	172.00	8	800	40800	250	800	2.00	Y 400/3/50	25	
ACPD/N 880/658T	279.09	2045.40	215.00	8	800	56000	360	1840	4.80	Δ 400/3/50	34	
ACPD/N 880/658Y	204.75	2045.40	215.00	8	800	39200	250	800	2.00	Y 400/3/50	25	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer
	EUR	EUR	EUR
ACPD/N 680/325T	S/P.	S/P.	S/P.
ACPD/N 680/325Y	S/P.	S/P.	S/P.
ACPD/N 680/403T	S/P.	S/P.	S/P.
ACPD/N 680/403Y	S/P.	S/P.	S/P.
ACPD/N 680/453T	S/P.	S/P.	S/P.
ACPD/N 680/453Y	S/P.	S/P.	S/P.
ACPD/N 880/560T	S/P.	S/P.	S/P.
ACPD/N 880/560Y	S/P.	S/P.	S/P.
ACPD/N 880/623T	S/P.	S/P.	S/P.
ACPD/N 880/623Y	S/P.	S/P.	S/P.
ACPD/N 880/658T	S/P.	S/P.	S/P.
ACPD/N 880/658Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

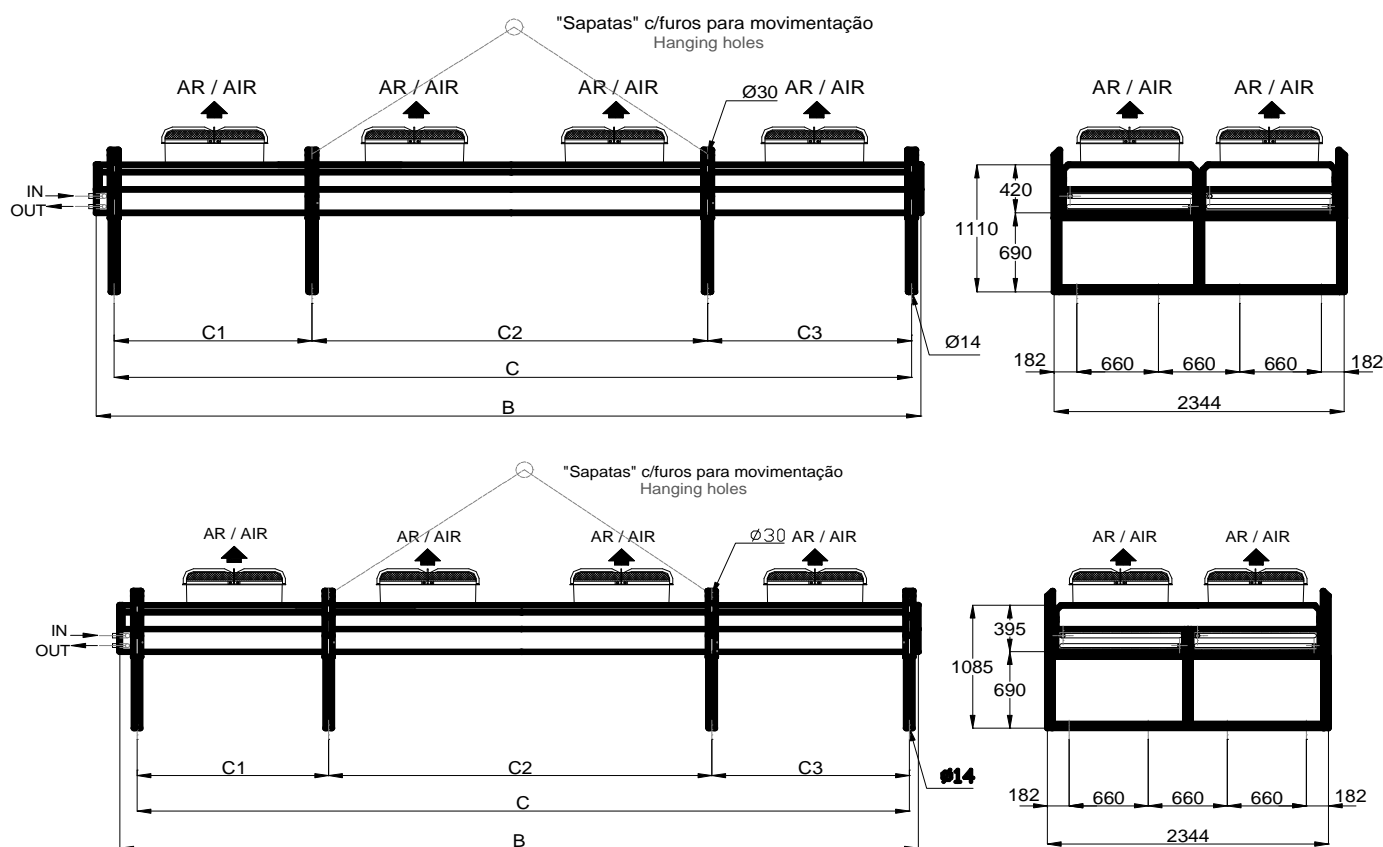
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Q₀ - Capacidade frigorífica do compressor
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Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type	
	Entrada Inlet	Saída Outlet									
	in	in	B	C	C1	C2	C3				
	2 x 2 1/8	2 x 1 5/8	5120	4850	1600	1600	1650	1032	11.30	ACPD/N	680/325T
	2 x 2 1/8	2 x 1 5/8	5120	4850	1600	1600	1650	1032	11.30	ACPD/N	680/325Y
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1139	11.30	ACPD/N	680/403T
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1139	11.30	ACPD/N	680/403Y
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1247	11.30	ACPD/N	680/453T
	2 x 2 5/8	2 x 2 1/8	5120	4850	1600	1600	1650	1247	11.30	ACPD/N	680/453Y
	2 x 2 5/8	2 x 2 1/8	6720	6450	1600	3200	1650	1414	14.80	ACPD/N	880/560T
	2 x 2 5/8	2 x 2 1/8	6720	6450	1600	3200	1650	1414	14.80	ACPD/N	880/560Y
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1556	14.80	ACPD/N	880/623T
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1556	14.80	ACPD/N	880/623Y
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1698	14.80	ACPD/N	880/658T
	2 x 3 1/8	2 x 2 5/8	6720	6450	1600	3200	1650	1698	14.80	ACPD/N	880/658Y



Execução especial
Special execution

QUIRON
by centauro



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans									
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level		
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)		
ACJ/M	291/132T	132.20	263.10	27.60	2	910	51400	920	3680	7.66	Δ 400/3/50	51	
ACJ/M	291/132Y	120.23	263.10	27.60	2	910	41000	670	2300	4.44	Y 400/3/50	45	
ACJ/M	291/172T	171.68	394.60	41.50	2	910	49400	920	3680	7.66	Δ 400/3/50	51	
ACJ/M	291/172Y	144.27	394.60	41.50	2	910	38800	670	2300	4.44	Y 400/3/50	45	
ACJ/M	291/190T	190.16	526.00	55.30	2	910	47200	920	3680	7.66	Δ 400/3/50	51	
ACJ/M	291/190Y	156.56	526.00	55.30	2	910	36800	670	2300	4.44	Y 400/3/50	45	
ACJ/M	391/199T	199.19	394.60	41.50	3	910	77100	920	5520	11.49	Δ 400/3/50	53	
ACJ/M	391/199Y	173.15	394.60	41.50	3	910	61500	670	3450	6.66	Y 400/3/50	47	
ACJ/M	391/248T	247.91	591.90	62.20	3	910	74100	920	5520	11.49	Δ 400/3/50	53	
ACJ/M	391/248Y	210.11	591.90	62.20	3	910	58200	670	3450	6.66	Y 400/3/50	47	
ACJ/M	391/277T	277.31	789.20	82.90	3	910	70800	920	5520	11.49	Δ 400/3/50	53	
ACJ/M	391/277Y	229.95	789.20	82.90	3	910	55200	670	3450	6.66	Y 400/3/50	47	
ACJ/M	491/344T	343.77	789.20	82.90	4	910	98800	920	7360	15.32	Δ 400/3/50	54	
ACJ/M	491/344Y	288.54	789.20	82.90	4	910	77600	670	4600	8.88	Y 400/3/50	48	
ACJ/M	491/380T	380.21	1052.00	110.60	4	910	94400	920	7360	15.32	Δ 400/3/50	54	
ACJ/M	491/380Y	313.11	1052.00	110.60	4	910	73600	670	4600	8.88	Y 400/3/50	48	
ACJ/M	491/401T	400.58	1315.40	138.20	4	910	90800	920	7360	15.32	Δ 400/3/50	54	
ACJ/M	491/401Y	322.14	1315.40	138.20	4	910	69600	670	4600	8.88	Y 400/3/50	48	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer
	EUR	EUR	EUR
ACJ/M	291/132T	S/P.	S/P.
ACJ/M	291/132Y	S/P.	S/P.
ACJ/M	291/172T	S/P.	S/P.
ACJ/M	291/172Y	S/P.	S/P.
ACJ/M	291/190T	S/P.	S/P.
ACJ/M	291/190Y	S/P.	S/P.
ACJ/M	391/199T	S/P.	S/P.
ACJ/M	391/199Y	S/P.	S/P.
ACJ/M	391/248T	S/P.	S/P.
ACJ/M	391/248Y	S/P.	S/P.
ACJ/M	391/277T	S/P.	S/P.
ACJ/M	391/277Y	S/P.	S/P.
ACJ/M	491/344T	S/P.	S/P.
ACJ/M	491/344Y	S/P.	S/P.
ACJ/M	491/380T	S/P.	S/P.
ACJ/M	491/380Y	S/P.	S/P.
ACJ/M	491/401T	S/P.	S/P.
ACJ/M	491/401Y	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

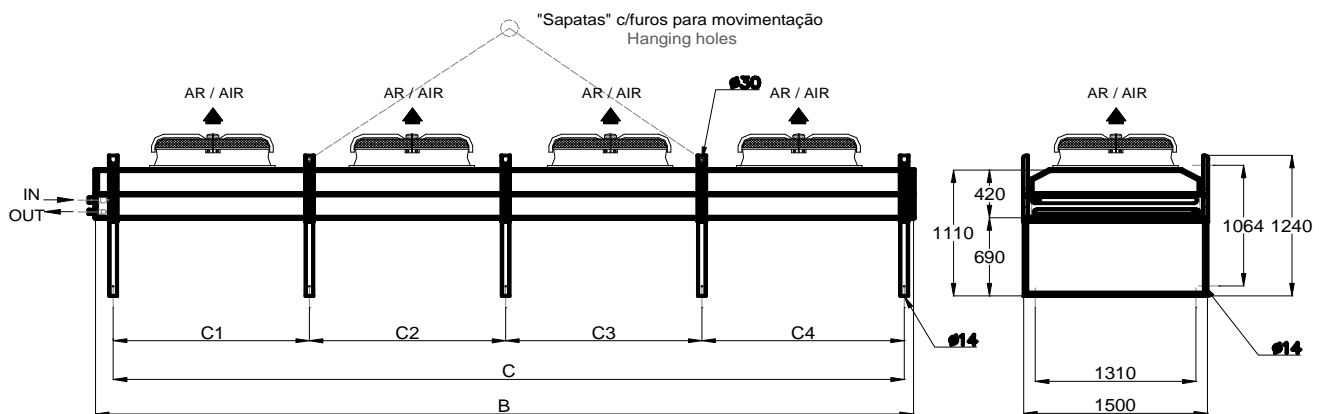
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions						Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type	
	Entrada Inlet	Saída Outlet										
	B	C	C1	C2	C3	C4						
	in	in	mm						Kg	m³		
	2 1/8	1 5/8	3520	3250	-	-	-	-	431	4.89	ACJ/M	291/132T
	2 1/8	1 5/8	3520	3250	-	-	-	-	431	4.89	ACJ/M	291/132Y
	2 1/8	1 5/8	3520	3250	-	-	-	-	481	4.89	ACJ/M	291/172T
	2 1/8	1 5/8	3520	3250	-	-	-	-	481	4.89	ACJ/M	291/172Y
	2 1/8	1 5/8	3520	3250	-	-	-	-	528	4.89	ACJ/M	291/190T
	2 1/8	1 5/8	3520	3250	-	-	-	-	528	4.89	ACJ/M	291/190Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	613	7.08	ACJ/M	391/199T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	613	7.08	ACJ/M	391/199Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	686	7.08	ACJ/M	391/248T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	686	7.08	ACJ/M	391/248Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	755	7.08	ACJ/M	391/277T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	755	7.08	ACJ/M	391/277Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	887	9.28	ACJ/M	491/344T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	887	9.28	ACJ/M	491/344Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	985	9.28	ACJ/M	491/380T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	985	9.28	ACJ/M	491/380Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	1076	9.28	ACJ/M	491/401T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	1076	9.28	ACJ/M	491/401Y





Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
	kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
ACJ/R 291/132T	120.23	263.10	27.60	2	910	41000	650	2300	5.56	Δ 400/3/50	42	
ACJ/R 291/132Y	102.17	263.10	27.60	2	910	32200	475	1280	2.72	Y 400/3/50	36	
ACJ/R 291/172T	144.27	394.60	41.50	2	910	38800	650	2300	5.56	Δ 400/3/50	42	
ACJ/R 291/172Y	119.28	394.60	41.50	2	910	30200	475	1280	2.72	Y 400/3/50	36	
ACJ/R 291/190T	156.56	526.00	55.30	2	910	36800	650	2300	5.56	Δ 400/3/50	42	
ACJ/R 291/190Y	126.63	526.00	55.30	2	910	28400	475	1280	2.72	Y 400/3/50	36	
ACJ/R 391/199T	173.15	394.60	41.50	3	910	61500	650	3450	8.34	Δ 400/3/50	44	
ACJ/R 391/199Y	148.16	394.60	41.50	3	910	48300	475	1920	4.08	Y 400/3/50	38	
ACJ/R 391/248T	210.11	591.90	62.20	3	910	58200	650	3450	8.34	Δ 400/3/50	44	
ACJ/R 391/248Y	175.14	591.90	62.20	3	910	45300	475	1920	4.08	Y 400/3/50	38	
ACJ/R 391/277T	229.95	789.20	82.90	3	910	55200	650	3450	8.34	Δ 400/3/50	44	
ACJ/R 391/277Y	187.11	789.20	82.90	3	910	42600	475	1920	4.08	Y 400/3/50	38	
ACJ/R 491/344T	288.54	789.20	82.90	4	910	77600	650	4600	11.12	Δ 400/3/50	45	
ACJ/R 491/344Y	238.88	789.20	82.90	4	910	60400	475	2560	5.44	Y 400/3/50	39	
ACJ/R 491/380T	313.11	1052.00	110.60	4	910	73600	650	4600	11.12	Δ 400/3/50	45	
ACJ/R 491/380Y	253.26	1052.00	110.60	4	910	56800	475	2560	5.44	Y 400/3/50	39	
ACJ/R 491/401T	322.14	1315.40	138.20	4	910	69600	650	4600	11.12	Δ 400/3/50	45	
ACJ/R 491/401Y	256.73	1315.40	138.20	4	910	53600	475	2560	5.44	Y 400/3/50	39	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer
		EUR	EUR
ACJ/R 291/132T	S/P.	S/P.	S/P.
ACJ/R 291/132Y	S/P.	S/P.	S/P.
ACJ/R 291/172T	S/P.	S/P.	S/P.
ACJ/R 291/172Y	S/P.	S/P.	S/P.
ACJ/R 291/190T	S/P.	S/P.	S/P.
ACJ/R 291/190Y	S/P.	S/P.	S/P.
ACJ/R 391/199T	S/P.	S/P.	S/P.
ACJ/R 391/199Y	S/P.	S/P.	S/P.
ACJ/R 391/248T	S/P.	S/P.	S/P.
ACJ/R 391/248Y	S/P.	S/P.	S/P.
ACJ/R 391/277T	S/P.	S/P.	S/P.
ACJ/R 391/277Y	S/P.	S/P.	S/P.
ACJ/R 491/344T	S/P.	S/P.	S/P.
ACJ/R 491/344Y	S/P.	S/P.	S/P.
ACJ/R 491/380T	S/P.	S/P.	S/P.
ACJ/R 491/380Y	S/P.	S/P.	S/P.
ACJ/R 491/401T	S/P.	S/P.	S/P.
ACJ/R 491/401Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR" Condenser Selection - Factor "FR"														
T _E	Temperatura Condensação Condensing Temperature [°C]													
	+35			+40			+45			+50			+55	
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.
	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01	
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11	
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21	
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32	

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

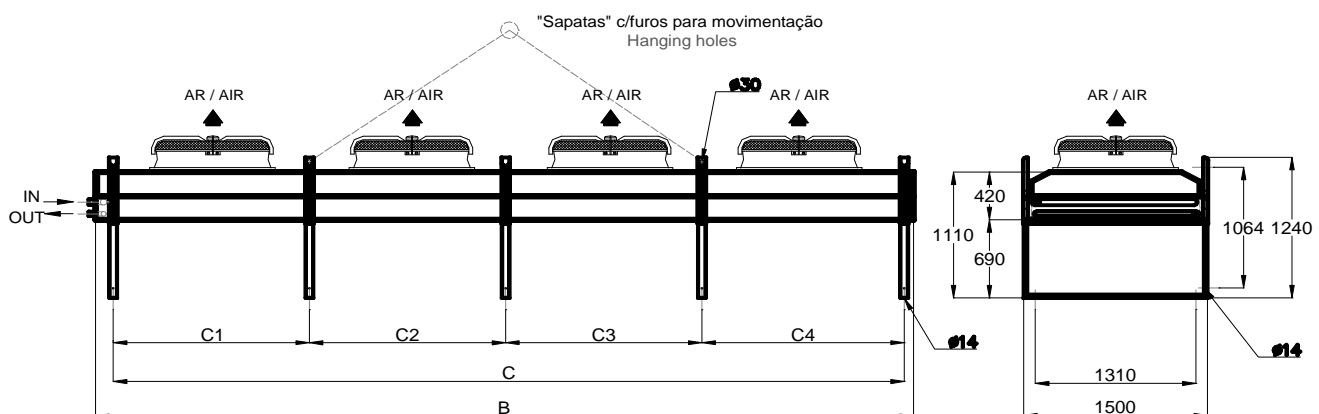
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions						Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3	C4			
	in	in	mm						Kg	m³	
	2 1/8	1 5/8	3520	3250	-	-	-	-	431	4.89	ACJ/R 291/132T
	2 1/8	1 5/8	3520	3250	-	-	-	-	431	4.89	ACJ/R 291/132Y
	2 1/8	1 5/8	3520	3250	-	-	-	-	481	4.89	ACJ/R 291/172T
	2 1/8	1 5/8	3520	3250	-	-	-	-	481	4.89	ACJ/R 291/172Y
	2 1/8	1 5/8	3520	3250	-	-	-	-	528	4.89	ACJ/R 291/190T
	2 1/8	1 5/8	3520	3250	-	-	-	-	528	4.89	ACJ/R 291/190Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	613	7.08	ACJ/R 391/199T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	613	7.08	ACJ/R 391/199Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	686	7.08	ACJ/R 391/248T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	686	7.08	ACJ/R 391/248Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	755	7.08	ACJ/R 391/277T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	755	7.08	ACJ/R 391/277Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	887	9.28	ACJ/R 491/344T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	887	9.28	ACJ/R 491/344Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	985	9.28	ACJ/R 491/380T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	985	9.28	ACJ/R 491/380Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	1076	9.28	ACJ/R 491/401T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	1076	9.28	ACJ/R 491/401Y





Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
	kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
ACJ/L 291/132T	88.94	263.10	27.60	2	910	27000	420	820	2.26	Δ 400/3/50	31	
ACJ/L 291/132Y	71.61	263.10	27.60	2	910	20200	305	420	0.96	Y 400/3/50	24	
ACJ/L 291/172T	104.06	394.60	41.50	2	910	25600	420	820	2.26	Δ 400/3/50	31	
ACJ/L 291/172Y	81.48	394.60	41.50	2	910	18800	305	420	0.96	Y 400/3/50	24	
ACJ/L 291/190T	109.41	526.00	55.30	2	910	24000	420	820	2.26	Δ 400/3/50	31	
ACJ/L 291/190Y	83.58	526.00	55.30	2	910	17400	305	420	0.96	Y 400/3/50	24	
ACJ/L 391/199T	129.68	394.60	41.50	3	910	40500	420	1230	3.39	Δ 400/3/50	33	
ACJ/L 391/199Y	105.11	394.60	41.50	3	910	30300	305	630	1.44	Y 400/3/50	26	
ACJ/L 391/248T	153.20	591.90	62.20	3	910	38400	420	1230	3.39	Δ 400/3/50	33	
ACJ/L 391/248Y	120.65	591.90	62.20	3	910	28200	305	630	1.44	Y 400/3/50	26	
ACJ/L 391/277T	162.23	789.20	82.90	3	910	36000	420	1230	3.39	Δ 400/3/50	33	
ACJ/L 391/277Y	124.53	789.20	82.90	3	910	26100	305	630	1.44	Y 400/3/50	26	
ACJ/L 491/344T	208.11	789.20	82.90	4	910	51200	420	1640	4.52	Δ 400/3/50	34	
ACJ/L 491/344Y	162.96	789.20	82.90	4	910	37600	305	840	1.92	Y 400/3/50	27	
ACJ/L 491/380T	218.93	1052.00	110.60	4	910	48000	420	1640	4.52	Δ 400/3/50	34	
ACJ/L 491/380Y	167.16	1052.00	110.60	4	910	34800	305	840	1.92	Y 400/3/50	27	
ACJ/L 491/401T	223.23	1315.40	138.20	4	910	45800	420	1640	4.52	Δ 400/3/50	34	
ACJ/L 491/401Y	168.00	1315.40	138.20	4	910	33000	305	840	1.92	Y 400/3/50	27	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer
	EUR	EUR	EUR
ACJ/L 291/132T	S/P.	S/P.	S/P.
ACJ/L 291/132Y	S/P.	S/P.	S/P.
ACJ/L 291/172T	S/P.	S/P.	S/P.
ACJ/L 291/172Y	S/P.	S/P.	S/P.
ACJ/L 291/190T	S/P.	S/P.	S/P.
ACJ/L 291/190Y	S/P.	S/P.	S/P.
ACJ/L 391/199T	S/P.	S/P.	S/P.
ACJ/L 391/199Y	S/P.	S/P.	S/P.
ACJ/L 391/248T	S/P.	S/P.	S/P.
ACJ/L 391/248Y	S/P.	S/P.	S/P.
ACJ/L 391/277T	S/P.	S/P.	S/P.
ACJ/L 391/277Y	S/P.	S/P.	S/P.
ACJ/L 491/344T	S/P.	S/P.	S/P.
ACJ/L 491/344Y	S/P.	S/P.	S/P.
ACJ/L 491/380T	S/P.	S/P.	S/P.
ACJ/L 491/380Y	S/P.	S/P.	S/P.
ACJ/L 491/401T	S/P.	S/P.	S/P.
ACJ/L 491/401Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR" Condenser Selection - Factor "FR"														
T _E	Temperatura Condensação Condensing Temperature [°C]													
	+35			+40			+45			+50			+55	
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.
	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01	
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11	
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21	
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32	

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

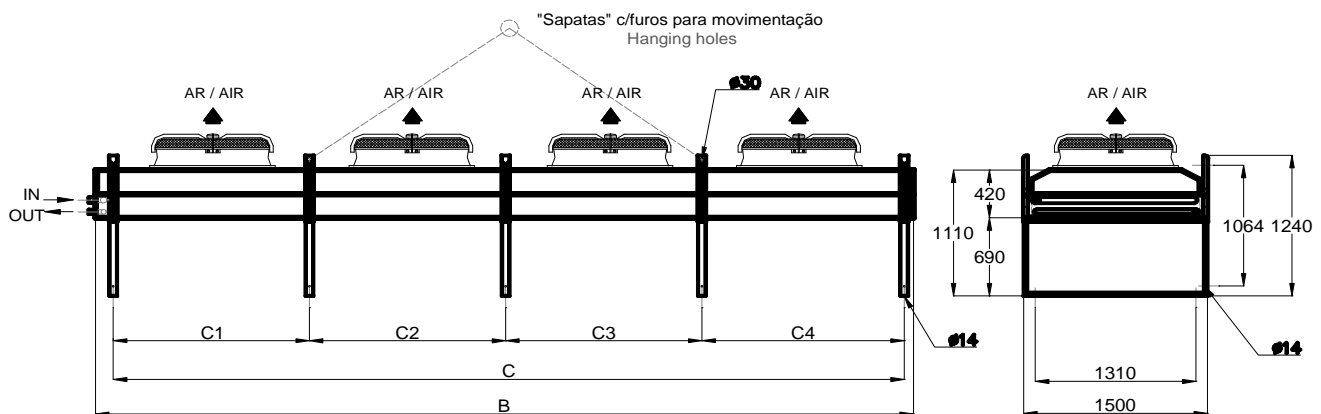
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions						Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Entrada Inlet	Saída Outlet	B	C	C1	C2	C3	C4			
	in	in	mm						Kg	m³	
	2 1/8	1 5/8	3520	3250	-	-	-	-	431	4.89	ACJ/L 291/132T
	2 1/8	1 5/8	3520	3250	-	-	-	-	431	4.89	ACJ/L 291/132Y
	2 1/8	1 5/8	3520	3250	-	-	-	-	481	4.89	ACJ/L 291/172T
	2 1/8	1 5/8	3520	3250	-	-	-	-	481	4.89	ACJ/L 291/172Y
	2 1/8	1 5/8	3520	3250	-	-	-	-	528	4.89	ACJ/L 291/190T
	2 1/8	1 5/8	3520	3250	-	-	-	-	528	4.89	ACJ/L 291/190Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	613	7.08	ACJ/L 391/199T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	613	7.08	ACJ/L 391/199Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	686	7.08	ACJ/L 391/248T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	686	7.08	ACJ/L 391/248Y
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	755	7.08	ACJ/L 391/277T
	2 5/8	2 1/8	5120	4850	1600	1600	1650	-	755	7.08	ACJ/L 391/277Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	887	9.28	ACJ/L 491/344T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	887	9.28	ACJ/L 491/344Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	985	9.28	ACJ/L 491/380T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	985	9.28	ACJ/L 491/380Y
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	1076	9.28	ACJ/L 491/401T
	3 1/8	2 5/8	6720	6450	1600	3200	1650	-	1076	9.28	ACJ/L 491/401Y



VAC

Condensadores Condensers

Espaçamento Fin Spacing

2,1 mm

Ø Ventiladores Ø Fans

910 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								Ruído Noise level
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1)	
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
VAC/M 291/132T	132.10	293.12	30.80	2	910	52800	920	3680	7.66	Δ 400/3/50	52	
VAC/M 291/132Y	115.00	293.12	30.80	2	910	42400	670	2300	4.44	Y 400/3/50	47	
VAC/M 291/173T	172.60	439.69	46.20	2	910	50800	920	3680	7.66	Δ 400/3/50	52	
VAC/M 291/173Y	145.00	439.69	46.20	2	910	40200	670	2300	4.44	Y 400/3/50	47	
VAC/M 391/209T	209.00	439.69	46.20	3	910	79200	920	5520	11.49	Δ 400/3/50	54	
VAC/M 391/209Y	182.00	439.69	46.20	3	910	63600	670	3450	6.66	Y 400/3/50	49	
VAC/M 391/258T	258.00	659.53	69.30	3	910	76200	920	5520	11.49	Δ 400/3/50	54	
VAC/M 391/258Y	217.00	659.53	69.30	3	910	60300	670	3450	6.66	Y 400/3/50	49	
VAC/M 491/264T	264.00	586.25	61.60	4	910	105600	920	7360	15.32	Δ 400/3/50	55	
VAC/M 491/264Y	230.00	586.25	61.60	4	910	84800	670	4600	8.88	Y 400/3/50	50	
VAC/M 491/329T	328.50	879.37	92.40	4	910	101600	920	7360	15.32	Δ 400/3/50	55	
VAC/M 491/329Y	279.00	879.37	92.40	4	910	80400	670	4600	8.88	Y 400/3/50	50	
VAC/M 591/343T	343.20	732.81	77.00	5	910	132000	920	9200	19.15	Δ 400/3/50	56	
VAC/M 591/343Y	296.00	732.81	77.00	5	910	106000	670	5750	11.10	Y 400/3/50	51	
VAC/M 591/421T	421.00	1099.22	115.50	5	910	127000	920	9200	19.15	Δ 400/3/50	56	
VAC/M 591/421Y	356.00	1099.22	115.50	5	910	100500	670	5750	11.10	Y 400/3/50	51	
VAC/M 691/420T	420.00	879.40	92.40	6	910	158400	920	11040	22.98	Δ 400/3/50	57	
VAC/M 691/420Y	364.00	879.40	92.40	6	910	127200	670	6900	13.32	Y 400/3/50	52	
VAC/M 691/517T	517.00	1319.10	138.00	6	910	152400	920	11040	22.98	Δ 400/3/50	57	
VAC/M 691/517Y	435.00	1319.10	138.00	6	910	120600	670	6900	13.32	Y 400/3/50	52	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer
	EUR	EUR	EUR
VAC/M 291/132T	S/P.	S/P.	S/P.
VAC/M 291/132Y	S/P.	S/P.	S/P.
VAC/M 291/173T	S/P.	S/P.	S/P.
VAC/M 291/173Y	S/P.	S/P.	S/P.
VAC/M 391/209T	S/P.	S/P.	S/P.
VAC/M 391/209Y	S/P.	S/P.	S/P.
VAC/M 391/258T	S/P.	S/P.	S/P.
VAC/M 391/258Y	S/P.	S/P.	S/P.
VAC/M 491/264T	S/P.	S/P.	S/P.
VAC/M 491/264Y	S/P.	S/P.	S/P.
VAC/M 491/329T	S/P.	S/P.	S/P.
VAC/M 491/329Y	S/P.	S/P.	S/P.
VAC/M 591/343T	S/P.	S/P.	S/P.
VAC/M 591/343Y	S/P.	S/P.	S/P.
VAC/M 591/421T	S/P.	S/P.	S/P.
VAC/M 591/421Y	S/P.	S/P.	S/P.
VAC/M 691/420T	S/P.	S/P.	S/P.
VAC/M 691/420Y	S/P.	S/P.	S/P.
VAC/M 691/517T	S/P.	S/P.	S/P.
VAC/M 691/517Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

CTR/THR - Calor total de rejeição

Q₀ - Capacidade frigorífica do compressor

P_{abs} - Potência absorvida do compressor

T_E - Temperatura de evaporação

DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected

Q₀ - Compressor refrigeration capacity

P_{abs} - Compressor absorbed power

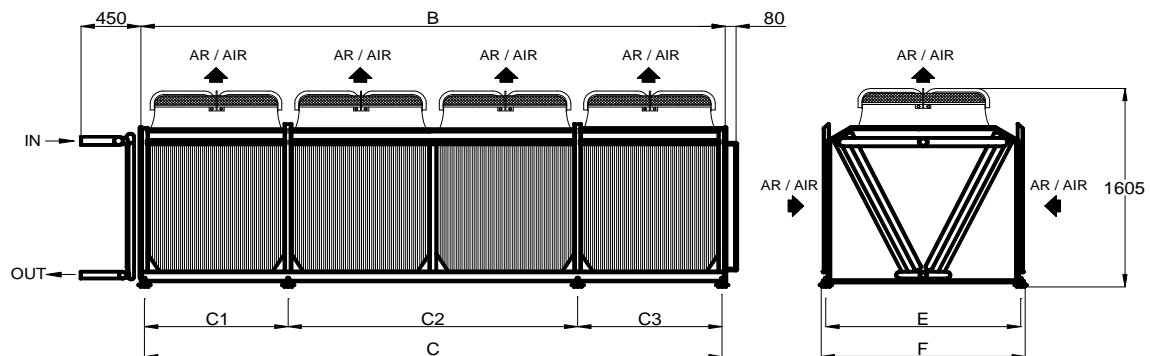
T_E - Evaporating temperature

TD - Temperature difference

Motores EC disponíveis sob pedido

EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Saída Outlet	Saída Outlet	B	C	C1	C2	C3			
	in	in	mm					Kg	m ³	
	2 1/8	1 5/8	2240	2190	-	-	-	518	8.60	VAC/M 291/132T
	2 1/8	1 5/8	2240	2190	-	-	-	518	8.60	VAC/M 291/132Y
	2 1/8	1 5/8	2240	2190	-	-	-	571	8.60	VAC/M 291/173T
	2 1/8	1 5/8	2240	2190	-	-	-	571	8.60	VAC/M 291/173Y
	2 5/8	2 1/8	3310	3260	-	-	-	722	12.45	VAC/M 391/209T
	2 5/8	2 1/8	3310	3260	-	-	-	722	12.45	VAC/M 391/209Y
	2 5/8	2 1/8	3310	3260	-	-	-	799	12.45	VAC/M 391/258T
	2 5/8	2 1/8	3310	3260	-	-	-	799	12.45	VAC/M 391/258Y
	2 5/8	2 1/8	4380	4330	1070	2190	1070	900	16.30	VAC/M 491/264T
	2 5/8	2 1/8	4380	4330	1070	2190	1070	900	16.30	VAC/M 491/264Y
	3 1/8	2 5/8	4380	4330	1070	2190	1070	1036	16.30	VAC/M 491/329T
	3 1/8	2 5/8	4380	4330	1070	2190	1070	1036	16.30	VAC/M 491/329Y
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1107	20.15	VAC/M 591/343T
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1107	20.15	VAC/M 591/343Y
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1243	20.15	VAC/M 591/421T
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1243	20.15	VAC/M 591/421Y
	3 1/8	2 5/8	6520	6470	2140	2190	2140	1374	24.00	VAC/M 691/420T
	3 1/8	2 5/8	6520	6470	2140	2190	2140	1374	24.00	VAC/M 691/420Y
	2 x 2 5/8	2 x 2 1/8	6520	6470	2140	2190	2140	1526	24.00	VAC/M 691/517T
	2 x 2 5/8	2 x 2 1/8	6520	6470	2140	2190	2140	1526	24.00	VAC/M 691/517Y



Cota E
 Dim. E
 2 Ventiladores 2 Fans 1460 mm
 3/4 Ventiladores 3/4 Fans 1470 mm
 5/6 Ventiladores 5/6 Fans 1480 mm

Cota F
 Dim. F
 2 Ventiladores 2 Fans 1535 mm
 3/4 Ventiladores 3/4 Fans 1545 mm
 5/6 Ventiladores 5/6 Fans 1555 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1) Noise level	
	kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
VAC/R 291/132T	115.00	293.12	30.80	2	910	42400	650	2300	5.56	Δ 400/3/50	43	
VAC/R 291/132Y	98.20	293.12	30.80	2	910	33400	475	1280	2.72	Y 400/3/50	37	
VAC/R 291/173T	145.00	439.69	46.20	2	910	40200	650	2300	5.56	Δ 400/3/50	43	
VAC/R 291/173Y	120.30	439.69	46.20	2	910	31600	475	1280	2.72	Y 400/3/50	37	
VAC/R 391/209T	182.00	439.69	46.20	3	910	63600	650	3450	8.34	Δ 400/3/50	45	
VAC/R 391/209Y	154.10	439.69	46.20	3	910	50100	475	1920	4.08	Y 400/3/50	39	
VAC/R 391/258T	217.00	659.53	69.30	3	910	60300	650	3450	8.34	Δ 400/3/50	45	
VAC/R 391/258Y	180.40	659.53	69.30	3	910	47400	475	1920	4.08	Y 400/3/50	39	
VAC/R 491/264T	230.00	586.25	61.60	4	910	84800	650	4600	11.12	Δ 400/3/50	46	
VAC/R 491/264Y	196.60	586.25	61.60	4	910	66800	475	2560	5.44	Y 400/3/50	40	
VAC/R 491/329T	279.00	879.37	92.40	4	910	80400	650	4600	11.12	Δ 400/3/50	46	
VAC/R 491/329Y	233.60	879.37	92.40	4	910	63200	475	2560	5.44	Y 400/3/50	40	
VAC/R 591/343T	296.00	732.81	77.00	5	910	106000	650	5750	13.90	Δ 400/3/50	47	
VAC/R 591/343Y	251.60	732.81	77.00	5	910	83500	475	3200	6.80	Y 400/3/50	41	
VAC/R 591/421T	356.00	1099.22	115.50	5	910	100500	650	5750	13.90	Δ 400/3/50	47	
VAC/R 591/421Y	296.60	1099.22	115.50	5	910	79000	475	3200	6.80	Y 400/3/50	41	
VAC/R 691/420T	364.00	879.40	92.40	6	910	127200	650	6900	16.68	Δ 400/3/50	48	
VAC/R 691/420Y	308.10	879.40	92.40	6	910	100200	475	3840	8.16	Y 400/3/50	42	
VAC/R 691/517T	435.00	1319.10	138.00	6	910	120600	650	6900	16.68	Δ 400/3/50	48	
VAC/R 691/517Y	360.50	1319.10	138.00	6	910	94800	475	3840	8.16	Y 400/3/50	42	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer
	EUR	EUR	Painted
VAC/R 291/132T	S/P.	S/P.	S/P.
VAC/R 291/132Y	S/P.	S/P.	S/P.
VAC/R 291/173T	S/P.	S/P.	S/P.
VAC/R 291/173Y	S/P.	S/P.	S/P.
VAC/R 391/209T	S/P.	S/P.	S/P.
VAC/R 391/209Y	S/P.	S/P.	S/P.
VAC/R 391/258T	S/P.	S/P.	S/P.
VAC/R 391/258Y	S/P.	S/P.	S/P.
VAC/R 491/264T	S/P.	S/P.	S/P.
VAC/R 491/264Y	S/P.	S/P.	S/P.
VAC/R 491/329T	S/P.	S/P.	S/P.
VAC/R 491/329Y	S/P.	S/P.	S/P.
VAC/R 591/343T	S/P.	S/P.	S/P.
VAC/R 591/343Y	S/P.	S/P.	S/P.
VAC/R 591/421T	S/P.	S/P.	S/P.
VAC/R 591/421Y	S/P.	S/P.	S/P.
VAC/R 691/420T	S/P.	S/P.	S/P.
VAC/R 691/420Y	S/P.	S/P.	S/P.
VAC/R 691/517T	S/P.	S/P.	S/P.
VAC/R 691/517Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

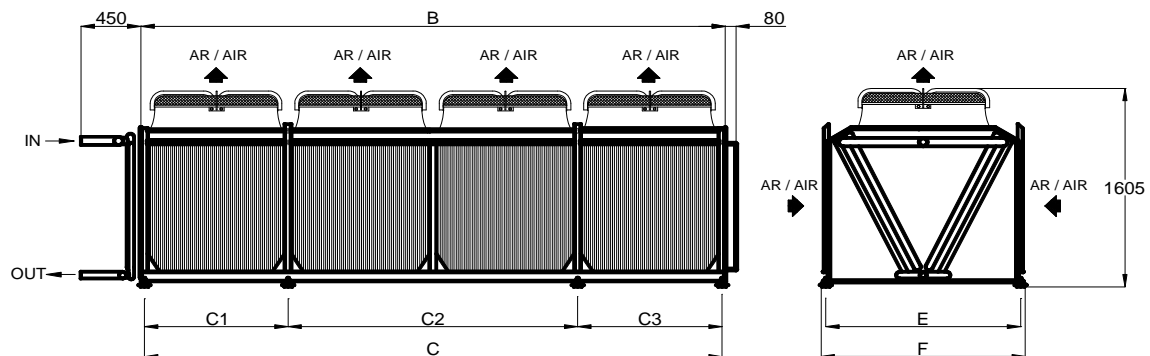
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Saída Outlet	Saída Outlet	B	C	C1	C2	C3			
	in	in	mm					Kg	m ³	
	2 1/8	1 5/8	2240	2190	-	-	-	518	8.60	VAC/R 291/132T
	2 1/8	1 5/8	2240	2190	-	-	-	518	8.60	VAC/R 291/132Y
	2 1/8	1 5/8	2240	2190	-	-	-	571	8.60	VAC/R 291/173T
	2 1/8	1 5/8	2240	2190	-	-	-	571	8.60	VAC/R 291/173Y
	2 5/8	2 1/8	3310	3260	-	-	-	722	12.45	VAC/R 391/209T
	2 5/8	2 1/8	3310	3260	-	-	-	722	12.45	VAC/R 391/209Y
	2 5/8	2 1/8	3310	3260	-	-	-	799	12.45	VAC/R 391/258T
	2 5/8	2 1/8	3310	3260	-	-	-	799	12.45	VAC/R 391/258Y
	2 5/8	2 1/8	4380	4330	1070	2190	1070	900	16.30	VAC/R 491/264T
	2 5/8	2 1/8	4380	4330	1070	2190	1070	900	16.30	VAC/R 491/264Y
	3 1/8	2 5/8	4380	4330	1070	2190	1070	1036	16.30	VAC/R 491/329T
	3 1/8	2 5/8	4380	4330	1070	2190	1070	1036	16.30	VAC/R 491/329Y
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1107	20.15	VAC/R 591/343T
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1107	20.15	VAC/R 591/343Y
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1243	20.15	VAC/R 591/421T
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1243	20.15	VAC/R 591/421Y
	3 1/8	2 5/8	6520	6470	2140	2190	2140	1374	24.00	VAC/R 691/420T
	3 1/8	2 5/8	6520	6470	2140	2190	2140	1374	24.00	VAC/R 691/420Y
	2 x 2 5/8	2 x 2 1/8	6520	6470	2140	2190	2140	1526	24.00	VAC/R 691/517T
	2 x 2 5/8	2 x 2 1/8	6520	6470	2140	2190	2140	1526	24.00	VAC/R 691/517Y



Cota E
 Dim. E
 2 Ventiladores 2 Fans 1460 mm
 3/4 Ventiladores 3/4 Fans 1470 mm
 5/6 Ventiladores 5/6 Fans 1480 mm

Cota F
 Dim. F
 2 Ventiladores 2 Fans 1535 mm
 3/4 Ventiladores 3/4 Fans 1545 mm
 5/6 Ventiladores 5/6 Fans 1555 mm

VAC

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 910 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								Ruído Noise level
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1)	
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
VAC/L 291/132T	85.60	293.12	30.80	2	910	27800	420	820	2.26	Δ 400/3/50	33	
VAC/L 291/132Y	70.40	293.12	30.80	2	910	21000	305	420	0.96	Y 400/3/50	24	
VAC/L 291/173T	103.50	439.69	46.20	2	910	26400	420	820	2.26	Δ 400/3/50	33	
VAC/L 291/173Y	82.10	439.69	46.20	2	910	19600	305	420	0.96	Y 400/3/50	24	
VAC/L 391/209T	133.10	439.69	46.20	3	910	41700	420	1230	3.39	Δ 400/3/50	35	
VAC/L 391/209Y	108.60	439.69	46.20	3	910	31500	305	630	1.44	Y 400/3/50	26	
VAC/L 391/258T	155.20	659.53	69.30	3	910	39600	420	1230	3.39	Δ 400/3/50	35	
VAC/L 391/258Y	123.10	659.53	69.30	3	910	29400	305	630	1.44	Y 400/3/50	26	
VAC/L 491/264T	171.10	586.25	61.60	4	910	55600	420	1640	4.52	Δ 400/3/50	36	
VAC/L 491/264Y	141.00	586.25	61.60	4	910	42000	305	840	1.92	Y 400/3/50	27	
VAC/L 491/329T	202.20	879.37	92.40	4	910	52800	420	1640	4.52	Δ 400/3/50	36	
VAC/L 491/329Y	161.60	879.37	92.40	4	910	39200	305	840	1.92	Y 400/3/50	27	
VAC/L 591/343T	218.00	732.81	77.00	5	910	69500	420	2050	5.65	Δ 400/3/50	37	
VAC/L 591/343Y	178.70	732.81	77.00	5	910	52500	305	1050	2.40	Y 400/3/50	28	
VAC/L 591/421T	256.00	1099.22	115.50	5	910	66000	420	2050	5.65	Δ 400/3/50	37	
VAC/L 591/421Y	203.50	1099.22	115.50	5	910	49000	305	1050	2.40	Y 400/3/50	28	
VAC/L 691/420T	266.10	879.40	92.40	6	910	83400	420	2460	6.78	Δ 400/3/50	38	
VAC/L 691/420Y	217.30	879.40	92.40	6	910	63000	305	1260	2.88	Y 400/3/50	29	
VAC/L 691/517T	310.50	1319.10	138.00	6	910	79200	420	2460	6.78	Δ 400/3/50	38	
VAC/L 691/517Y	246.30	1319.10	138.00	6	910	58800	305	1260	2.88	Y 400/3/50	29	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer
	EUR	EUR	EUR
VAC/L 291/132T	S/P.	S/P.	S/P.
VAC/L 291/132Y	S/P.	S/P.	S/P.
VAC/L 291/173T	S/P.	S/P.	S/P.
VAC/L 291/173Y	S/P.	S/P.	S/P.
VAC/L 391/209T	S/P.	S/P.	S/P.
VAC/L 391/209Y	S/P.	S/P.	S/P.
VAC/L 391/258T	S/P.	S/P.	S/P.
VAC/L 391/258Y	S/P.	S/P.	S/P.
VAC/L 491/264T	S/P.	S/P.	S/P.
VAC/L 491/264Y	S/P.	S/P.	S/P.
VAC/L 491/329T	S/P.	S/P.	S/P.
VAC/L 491/329Y	S/P.	S/P.	S/P.
VAC/L 591/343T	S/P.	S/P.	S/P.
VAC/L 591/343Y	S/P.	S/P.	S/P.
VAC/L 591/421T	S/P.	S/P.	S/P.
VAC/L 591/421Y	S/P.	S/P.	S/P.
VAC/L 691/420T	S/P.	S/P.	S/P.
VAC/L 691/420Y	S/P.	S/P.	S/P.
VAC/L 691/517T	S/P.	S/P.	S/P.
VAC/L 691/517Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
°C	Open			Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

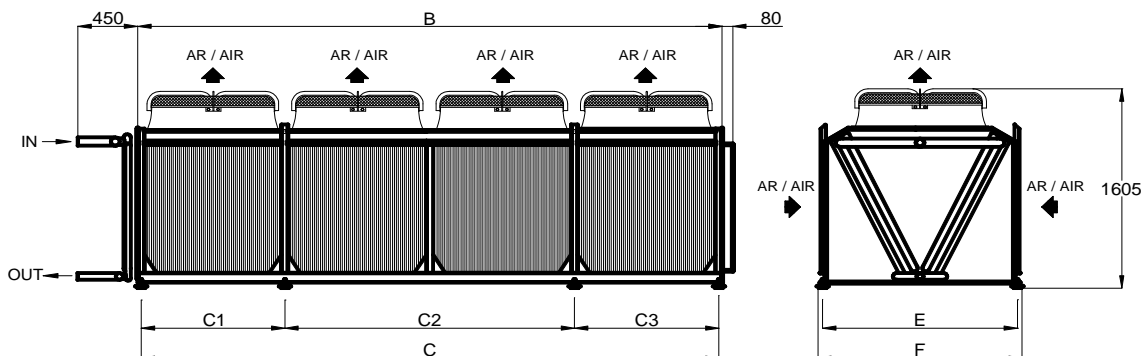
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Saída Outlet	Saída Outlet	B	C	C1	C2	C3			
	in	in	mm					Kg	m ³	
	2 1/8	1 5/8	2240	2190	-	-	-	518	8.60	VAC/L 291/132T
	2 1/8	1 5/8	2240	2190	-	-	-	518	8.60	VAC/L 291/132Y
	2 1/8	1 5/8	2240	2190	-	-	-	571	8.60	VAC/L 291/173T
	2 1/8	1 5/8	2240	2190	-	-	-	571	8.60	VAC/L 291/173Y
	2 5/8	2 1/8	3310	3260	-	-	-	722	12.45	VAC/L 391/209T
	2 5/8	2 1/8	3310	3260	-	-	-	722	12.45	VAC/L 391/209Y
	2 5/8	2 1/8	3310	3260	-	-	-	799	12.45	VAC/L 391/258T
	2 5/8	2 1/8	3310	3260	-	-	-	799	12.45	VAC/L 391/258Y
	2 5/8	2 1/8	4380	4330	1070	2190	1070	900	16.30	VAC/L 491/264T
	2 5/8	2 1/8	4380	4330	1070	2190	1070	900	16.30	VAC/L 491/264Y
	3 1/8	2 5/8	4380	4330	1070	2190	1070	1036	16.30	VAC/L 491/329T
	3 1/8	2 5/8	4380	4330	1070	2190	1070	1036	16.30	VAC/L 491/329Y
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1107	20.15	VAC/L 591/343T
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1107	20.15	VAC/L 591/343Y
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1243	20.15	VAC/L 591/421T
	3 1/8	2 5/8	5450	5400	2140	1120	2140	1243	20.15	VAC/L 591/421Y
	3 1/8	2 5/8	6520	6470	2140	2190	2140	1374	24.00	VAC/L 691/420T
	3 1/8	2 5/8	6520	6470	2140	2190	2140	1374	24.00	VAC/L 691/420Y
	2 x 2 5/8	2 x 2 1/8	6520	6470	2140	2190	2140	1526	24.00	VAC/L 691/517T
	2 x 2 5/8	2 x 2 1/8	6520	6470	2140	2190	2140	1526	24.00	VAC/L 691/517Y

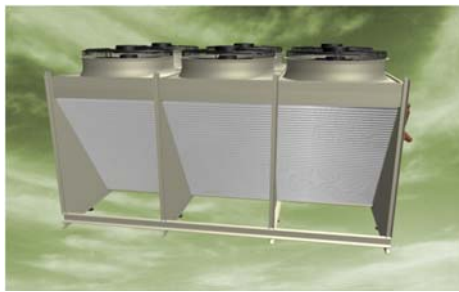


Cota E	Dim. E		
	2 Ventiladores	2 Fans	1460 mm
	3/4 Ventiladores	3/4 Fans	1470 mm
	5/6 Ventiladores	5/6 Fans	1480 mm

Cota F	Dim. F		
	2 Ventiladores	2 Fans	1535 mm
	3/4 Ventiladores	3/4 Fans	1545 mm
	5/6 Ventiladores	5/6 Fans	1555 mm

VACD

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 910 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								Ruído Noise level
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1)	
VACD/M 491/281T	281.00	615.56	64.70	4	910	90000	920	7360	15.32	Δ 400/3/50	55	
VACD/M 491/281Y	235.00	615.56	64.70	4	910	68800	670	4600	8.88	Y 400/3/50	50	
VACD/M 491/313T	313.00	820.75	86.30	4	910	84800	920	7360	15.32	Δ 400/3/50	55	
VACD/M 491/313Y	253.00	820.75	86.30	4	910	64000	670	4600	8.88	Y 400/3/50	50	
VACD/M 691/422T	422.00	923.34	97.10	6	910	135000	920	11040	22.98	Δ 400/3/50	57	
VACD/M 691/422Y	353.00	923.34	97.10	6	910	103200	670	6900	13.32	Y 400/3/50	52	
VACD/M 691/469T	469.00	1231.12	129.40	6	910	127200	920	11040	22.98	Δ 400/3/50	57	
VACD/M 691/469Y	380.00	1231.12	129.40	6	910	96000	670	6900	13.32	Y 400/3/50	52	
VACD/M 891/531T	531.00	1231.12	129.40	8	910	180000	920	14720	30.64	Δ 400/3/50	58	
VACD/M 891/531Y	449.00	1231.12	129.40	8	910	137600	670	9200	17.76	Y 400/3/50	53	
VACD/M 891/598T	598.00	1641.50	172.50	8	910	169600	920	14720	30.64	Δ 400/3/50	58	
VACD/M 891/598Y	490.00	1641.50	172.50	8	910	128000	670	9200	17.76	Y 400/3/50	53	
VACD/M 1091/686T	686.00	1538.90	161.80	10	910	225000	920	18400	38.30	Δ 400/3/50	59	
VACD/M 1091/686Y	576.00	1538.90	161.80	10	910	172000	670	11500	22.20	Y 400/3/50	54	
VACD/M 1091/766T	766.00	2051.87	215.70	10	910	212000	920	18400	38.30	Δ 400/3/50	59	
VACD/M 1091/766Y	623.00	2051.87	215.70	10	910	160000	670	11500	22.20	Y 400/3/50	54	
VACD/M 1291/844T	844.00	1846.70	194.10	12	910	270000	920	22080	45.96	Δ 400/3/50	60	
VACD/M 1291/844Y	707.00	1846.70	194.10	12	910	206400	670	13800	26.64	Y 400/3/50	55	
VACD/M 1291/938T	938.00	2462.20	258.80	12	910	254400	920	22080	45.96	Δ 400/3/50	60	
VACD/M 1291/938Y	760.00	2462.20	258.80	12	910	192000	670	13800	26.64	Y 400/3/50	55	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquered
		EUR	EUR
VACD/M 491/281T	S/P.	S/P.	S/P.
VACD/M 491/281Y	S/P.	S/P.	S/P.
VACD/M 491/313T	S/P.	S/P.	S/P.
VACD/M 491/313Y	S/P.	S/P.	S/P.
VACD/M 691/422T	S/P.	S/P.	S/P.
VACD/M 691/422Y	S/P.	S/P.	S/P.
VACD/M 691/469T	S/P.	S/P.	S/P.
VACD/M 691/469Y	S/P.	S/P.	S/P.
VACD/M 891/531T	S/P.	S/P.	S/P.
VACD/M 891/531Y	S/P.	S/P.	S/P.
VACD/M 891/598T	S/P.	S/P.	S/P.
VACD/M 891/598Y	S/P.	S/P.	S/P.
VACD/M 1091/686T	S/P.	S/P.	S/P.
VACD/M 1091/686Y	S/P.	S/P.	S/P.
VACD/M 1091/766T	S/P.	S/P.	S/P.
VACD/M 1091/766Y	S/P.	S/P.	S/P.
VACD/M 1291/844T	S/P.	S/P.	S/P.
VACD/M 1291/844Y	S/P.	S/P.	S/P.
VACD/M 1291/938T	S/P.	S/P.	S/P.
VACD/M 1291/938Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

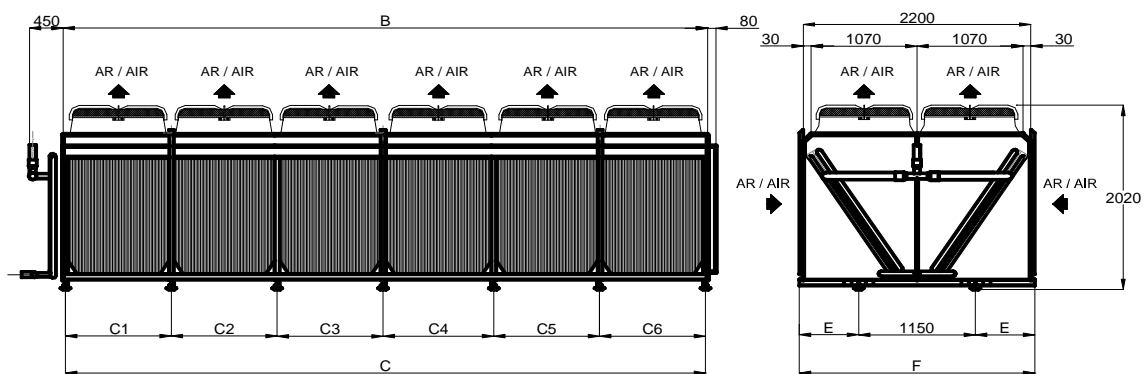
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions								Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type	
	Entrada Inlet	Saída Outlet	mm											
			B	C	C1	C2	C3	C4	C5	C6				
	in	in	mm								Kg	m³		
	2 5/8	2 1/8	2240	2190	1070	1120	-	-	-	-	1022	15.33	VACD/M	491/281T
	2 5/8	2 1/8	2240	2190	1070	1120	-	-	-	-	1022	15.33	VACD/M	491/281Y
	3 1/8	2 5/8	2240	2190	1070	1120	-	-	-	-	1095	15.33	VACD/M	491/313T
	3 1/8	2 5/8	2240	2190	1070	1120	-	-	-	-	1095	15.33	VACD/M	491/313Y
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1434	21.25	VACD/M	691/422T
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1434	21.25	VACD/M	691/422Y
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1543	21.25	VACD/M	691/469T
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1543	21.25	VACD/M	691/469Y
	2 x 2 5/8	2 x 2 1/8	4380	4330	1070	1070	1120	1070	-	-	1784	27.17	VACD/M	891/531T
	2 x 2 5/8	2 x 2 1/8	4380	4330	1070	1070	1120	1070	-	-	1784	27.17	VACD/M	891/531Y
	2 x 3 1/8	2 x 2 5/8	4380	4330	1070	1070	1120	1070	-	-	1927	27.17	VACD/M	891/598T
	2 x 3 1/8	2 x 2 5/8	4380	4330	1070	1070	1120	1070	-	-	1927	27.17	VACD/M	891/598Y
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2134	33.09	VACD/M	1091/686T
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2134	33.09	VACD/M	1091/686Y
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2313	33.09	VACD/M	1091/766T
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2313	33.09	VACD/M	1091/766Y
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2562	39.01	VACD/M	1291/844T
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2562	39.01	VACD/M	1291/844Y
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2775	39.01	VACD/M	1291/938T
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2775	39.01	VACD/M	1291/938Y



Cota E
Dim. E
4/6/8 Ventiladores 4/6/8 Fans 575 mm
10/12 Ventiladores 10/12 Fans 580 mm

Cota F
Dim. F
4/6/8 Ventiladores 4/6/8 Fans 2300 mm
10/12 Ventiladores 10/12 Fans 2310 mm

VACD

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 910 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								Ruído Noise level
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1)	
	kW	m ²	dm ³		mm	m ³ /h	rpm	W	A	V / F / Hz	dB(A)	
VACD/R 491/281T	235.00	615.56	64.70	4	910	68800	650	4600	11.12	Δ 400/3/50	46	
VACD/R 491/281Y	193.70	615.56	64.70	4	910	52800	475	2560	5.44	Y 400/3/50	40	
VACD/R 491/313T	253.00	820.75	86.30	4	910	64000	650	4600	11.12	Δ 400/3/50	46	
VACD/R 491/313Y	204.50	820.75	86.30	4	910	48800	475	2560	5.44	Y 400/3/50	40	
VACD/R 691/422T	353.00	923.34	97.10	6	910	103200	650	6900	16.68	Δ 400/3/50	48	
VACD/R 691/422Y	290.60	923.34	97.10	6	910	79200	475	3840	8.16	Y 400/3/50	42	
VACD/R 691/469T	380.00	1231.12	129.40	6	910	96000	650	6900	16.68	Δ 400/3/50	48	
VACD/R 691/469Y	306.80	1231.12	129.40	6	910	73200	475	3840	8.16	Y 400/3/50	42	
VACD/R 891/531T	449.00	1231.12	129.40	8	910	137600	650	9200	22.24	Δ 400/3/50	49	
VACD/R 891/531Y	374.00	1231.12	129.40	8	910	105600	475	5120	10.88	Y 400/3/50	43	
VACD/R 891/598T	490.00	1641.50	172.50	8	910	128000	650	9200	22.24	Δ 400/3/50	49	
VACD/R 891/598Y	399.50	1641.50	172.50	8	910	97600	475	5120	10.88	Y 400/3/50	43	
VACD/R 1091/686T	576.00	1538.90	161.80	10	910	172000	650	11500	27.80	Δ 400/3/50	50	
VACD/R 1091/686Y	476.70	1538.90	161.80	10	910	132000	475	6400	13.60	Y 400/3/50	44	
VACD/R 1091/766T	623.00	2051.87	215.70	10	910	160000	650	11500	27.80	Δ 400/3/50	50	
VACD/R 1091/766Y	505.80	2051.87	215.70	10	910	122000	475	6400	13.60	Y 400/3/50	44	
VACD/R 1291/844T	707.00	1846.70	194.10	12	910	206400	650	13800	33.36	Δ 400/3/50	51	
VACD/R 1291/844Y	581.70	1846.70	194.10	12	910	158400	475	7680	16.32	Y 400/3/50	45	
VACD/R 1291/938T	760.00	2462.20	258.80	12	910	192000	650	13800	33.36	Δ 400/3/50	51	
VACD/R 1291/938Y	613.60	2462.20	258.80	12	910	146400	475	7680	16.32	Y 400/3/50	45	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquered
	EUR	EUR	EUR
VACD/R 491/281T	S/P.	S/P.	S/P.
VACD/R 491/281Y	S/P.	S/P.	S/P.
VACD/R 491/313T	S/P.	S/P.	S/P.
VACD/R 491/313Y	S/P.	S/P.	S/P.
VACD/R 691/422T	S/P.	S/P.	S/P.
VACD/R 691/422Y	S/P.	S/P.	S/P.
VACD/R 691/469T	S/P.	S/P.	S/P.
VACD/R 691/469Y	S/P.	S/P.	S/P.
VACD/R 891/531T	S/P.	S/P.	S/P.
VACD/R 891/531Y	S/P.	S/P.	S/P.
VACD/R 891/598T	S/P.	S/P.	S/P.
VACD/R 891/598Y	S/P.	S/P.	S/P.
VACD/R 1091/686T	S/P.	S/P.	S/P.
VACD/R 1091/686Y	S/P.	S/P.	S/P.
VACD/R 1091/766T	S/P.	S/P.	S/P.
VACD/R 1091/766Y	S/P.	S/P.	S/P.
VACD/R 1291/844T	S/P.	S/P.	S/P.
VACD/R 1291/844Y	S/P.	S/P.	S/P.
VACD/R 1291/938T	S/P.	S/P.	S/P.
VACD/R 1291/938Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

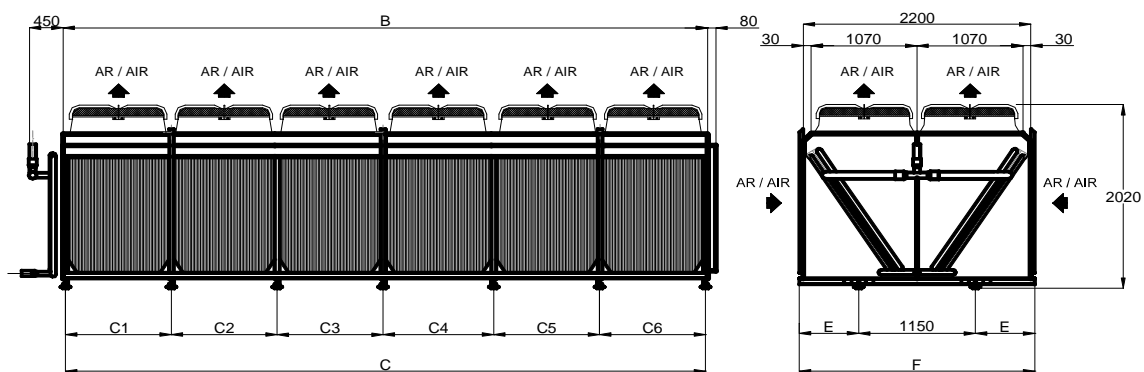
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions								Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type	
	Entrada Inlet	Saída Outlet												
	B	C	C1	C2	C3	C4	C5	C6	Kg	m³				
	in	in	mm											
	2 5/8	2 1/8	2240	2190	1070	1120	-	-	-	-	1022	15.33	VACD/R	491/281T
	2 5/8	2 1/8	2240	2190	1070	1120	-	-	-	-	1022	15.33	VACD/R	491/281Y
	3 1/8	2 5/8	2240	2190	1070	1120	-	-	-	-	1095	15.33	VACD/R	491/313T
	3 1/8	2 5/8	2240	2190	1070	1120	-	-	-	-	1095	15.33	VACD/R	491/313Y
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1434	21.25	VACD/R	691/422T
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1434	21.25	VACD/R	691/422Y
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1543	21.25	VACD/R	691/469T
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1543	21.25	VACD/R	691/469Y
	2 x 2 5/8	2 x 2 1/8	4380	4330	1070	1070	1120	1070	-	-	1784	27.17	VACD/R	891/531T
	2 x 2 5/8	2 x 2 1/8	4380	4330	1070	1070	1120	1070	-	-	1784	27.17	VACD/R	891/531Y
	2 x 3 1/8	2 x 2 5/8	4380	4330	1070	1070	1120	1070	-	-	1927	27.17	VACD/R	891/598T
	2 x 3 1/8	2 x 2 5/8	4380	4330	1070	1070	1120	1070	-	-	1927	27.17	VACD/R	891/598Y
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2134	33.09	VACD/R	1091/686T
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2134	33.09	VACD/R	1091/686Y
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2313	33.09	VACD/R	1091/766T
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2313	33.09	VACD/R	1091/766Y
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2562	39.01	VACD/R	1291/844T
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2562	39.01	VACD/R	1291/844Y
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2775	39.01	VACD/R	1291/938T
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2775	39.01	VACD/R	1291/938Y



Cota E
Dim. E
4/6/8 Ventiladores 4/6/8 Fans 575 mm
10/12 Ventiladores 10/12 Fans 580 mm

Cota F
Dim. F
4/6/8 Ventiladores 4/6/8 Fans 2300 mm
10/12 Ventiladores 10/12 Fans 2310 mm

VACD

Condensadores Condensers
Espaçamento Fin Spacing 2,1 mm
Ø Ventiladores Ø Fans 910 mm



Modelo Type	Capacidade (DT 15°C) Capacity (TD 15°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								Ruído Noise level
				Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Rotação Revolutions	Potência Abs. Abs. Power	Corrente Current	Alimentação MPS	Ruído (1)	
	kW	m²	dm³		mm	m³/h	rpm	W	A	V / F / Hz	dB(A)	
VACD/L 491/281T	171.30	615.56	64.70	4	910	45200	420	1640	4.52	Δ 400/3/50	36	
VACD/L 491/281Y	130.90	615.56	64.70	4	910	32400	305	840	1.92	Y 400/3/50	27	
VACD/L 491/313T	179.60	820.75	86.30	4	910	42000	420	1640	4.52	Δ 400/3/50	36	
VACD/L 491/313Y	135.10	820.75	86.30	4	910	30000	305	840	1.92	Y 400/3/50	27	
VACD/L 691/422T	257.00	923.34	97.10	6	910	67800	420	2460	6.78	Δ 400/3/50	38	
VACD/L 691/422Y	196.30	923.34	97.10	6	910	48600	305	1260	2.88	Y 400/3/50	29	
VACD/L 691/469T	269.30	1231.12	129.40	6	910	63000	420	2460	6.78	Δ 400/3/50	38	
VACD/L 691/469Y	202.70	1231.12	129.40	6	910	45000	305	1260	2.88	Y 400/3/50	29	
VACD/L 891/531T	332.80	1231.12	129.40	8	910	90400	420	3280	9.04	Δ 400/3/50	39	
VACD/L 891/531Y	256.60	1231.12	129.40	8	910	64800	305	1680	3.84	Y 400/3/50	30	
VACD/L 891/598T	352.20	1641.50	172.50	8	910	84000	420	3280	9.04	Δ 400/3/50	39	
VACD/L 891/598Y	267.20	1641.50	172.50	8	910	60000	305	1680	3.84	Y 400/3/50	30	
VACD/L 1091/686T	422.60	1538.90	161.80	10	910	113000	420	4100	11.30	Δ 400/3/50	40	
VACD/L 1091/686Y	324.20	1538.90	161.80	10	910	81000	305	2100	4.80	Y 400/3/50	31	
VACD/L 1091/766T	445.00	2051.87	215.70	10	910	105000	420	4100	11.30	Δ 400/3/50	40	
VACD/L 1091/766Y	336.00	2051.87	215.70	10	910	75000	305	2100	4.80	Y 400/3/50	31	
VACD/L 1291/844T	514.40	1846.70	194.10	12	910	135600	420	4920	13.56	Δ 400/3/50	41	
VACD/L 1291/844Y	392.60	1846.70	194.10	12	910	97200	305	2520	5.76	Y 400/3/50	32	
VACD/L 1291/938T	539.00	2462.20	258.80	12	910	126000	420	4920	13.56	Δ 400/3/50	41	
VACD/L 1291/938Y	405.50	2462.20	258.80	12	910	90000	305	2520	5.76	Y 400/3/50	32	

Modelo Type	Preço Price	Opção Options	
		Alheta revestida Coated fins	Lacado Lacquer
		EUR	EUR
VACD/L 491/281T	S/P.	S/P.	S/P.
VACD/L 491/281Y	S/P.	S/P.	S/P.
VACD/L 491/313T	S/P.	S/P.	S/P.
VACD/L 491/313Y	S/P.	S/P.	S/P.
VACD/L 691/422T	S/P.	S/P.	S/P.
VACD/L 691/422Y	S/P.	S/P.	S/P.
VACD/L 691/469T	S/P.	S/P.	S/P.
VACD/L 691/469Y	S/P.	S/P.	S/P.
VACD/L 891/531T	S/P.	S/P.	S/P.
VACD/L 891/531Y	S/P.	S/P.	S/P.
VACD/L 891/598T	S/P.	S/P.	S/P.
VACD/L 891/598Y	S/P.	S/P.	S/P.
VACD/L 1091/686T	S/P.	S/P.	S/P.
VACD/L 1091/686Y	S/P.	S/P.	S/P.
VACD/L 1091/766T	S/P.	S/P.	S/P.
VACD/L 1091/766Y	S/P.	S/P.	S/P.
VACD/L 1291/844T	S/P.	S/P.	S/P.
VACD/L 1291/844Y	S/P.	S/P.	S/P.
VACD/L 1291/938T	S/P.	S/P.	S/P.
VACD/L 1291/938Y	S/P.	S/P.	S/P.

Seleccção de Condensadores - Factor "FR"															
Condenser Selection - Factor "FR"															
T _E	Temperatura Condensação Condensing Temperature [°C]														
	+35			+40			+45			+50			+55		
	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.	Herm	Aber.	Sem.
	°C	Open		Open			Open			Open			Open		
+5	1.26	1.20	1.22	1.30	1.23	1.26	1.35	1.27	1.31	1.41	1.32	1.37	1.48	1.38	1.44
0	1.31	1.23	1.26	1.35	1.27	1.30	1.40	1.31	1.35	1.47	1.36	1.42	1.55	1.43	1.49
-5	1.36	1.26	1.30	1.41	1.30	1.34	1.47	1.35	1.40	1.55	1.41	1.47	1.64	1.48	1.55
-10	1.43	1.30	1.34	1.49	1.35	1.39	1.56	1.40	1.45	1.65	1.46	1.52	1.76	1.55	1.61
-15	1.52	1.34	1.39	1.59	1.39	1.44	1.67	1.45	1.51	1.77	1.52	1.59	1.90	1.62	1.68
-20	1.64	1.39	1.44	1.71	1.44	1.50	1.80	1.51	1.57	1.91	1.60	1.66	2.01		
-25	1.68	1.44	1.50	1.76	1.51	1.56	1.86	1.58	1.64	1.98	1.68	1.73	2.11		
-30	1.75	1.51	1.57	1.84	1.58	1.64	1.95	1.67	1.72	2.08	1.79	1.82	2.21		
-35	1.83	1.58	1.65	1.92	1.67	1.73	2.04	1.79	1.82	2.18	1.94	1.93	2.32		

$$CTR/THR = Q_0 + P_{abs} \quad \text{ou or} \quad CTR/THR = Q_0 \times FR$$

Terminologia

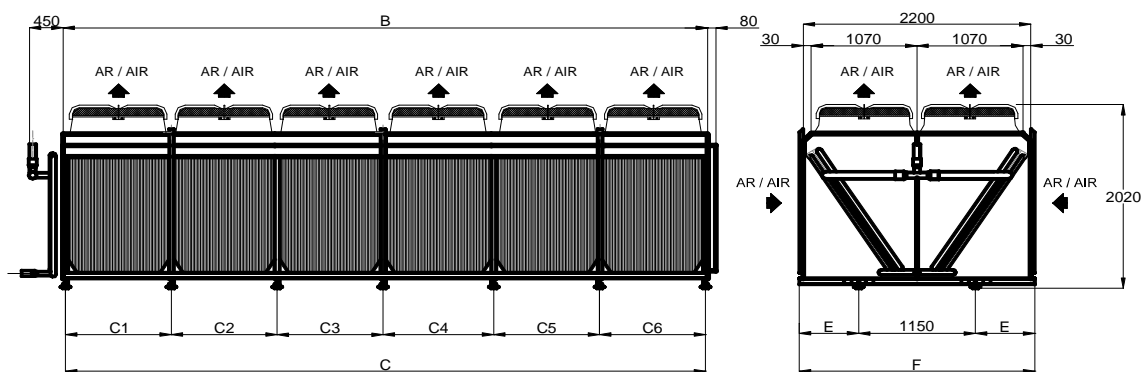
CTR/THR - Calor total de rejeição
Q₀ - Capacidade frigorífica do compressor
P_{abs} - Potência absorvida do compressor
T_E - Temperatura de evaporação
DT - Diferencial de temperatura

Terminology

CTR/THR - Total heat rejected
Q₀ - Compressor refrigeration capacity
P_{abs} - Compressor absorbed power
T_E - Evaporating temperature
TD - Temperature difference

Motores EC disponíveis sob pedido
EC motors available under request

	Ligações Connections		Dimensões Dimensions								Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type	
	Entrada Inlet	Saída Outlet	Dimensões Dimensions											
			B	C	C1	C2	C3	C4	C5	C6				
	in	in	mm								Kg	m ³		
	2 5/8	2 1/8	2240	2190	1070	1120	-	-	-	-	1022	15.33	VACD/L	491/281T
	2 5/8	2 1/8	2240	2190	1070	1120	-	-	-	-	1022	15.33	VACD/L	491/281Y
	3 1/8	2 5/8	2240	2190	1070	1120	-	-	-	-	1095	15.33	VACD/L	491/313T
	3 1/8	2 5/8	2240	2190	1070	1120	-	-	-	-	1095	15.33	VACD/L	491/313Y
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1434	21.25	VACD/L	691/422T
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1434	21.25	VACD/L	691/422Y
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1543	21.25	VACD/L	691/469T
	3 1/8	2 5/8	3310	3260	1070	1120	1070	-	-	-	1543	21.25	VACD/L	691/469Y
	2 x 2 5/8	2 x 2 1/8	4380	4330	1070	1070	1120	1070	-	-	1784	27.17	VACD/L	891/531T
	2 x 2 5/8	2 x 2 1/8	4380	4330	1070	1070	1120	1070	-	-	1784	27.17	VACD/L	891/531Y
	2 x 3 1/8	2 x 2 5/8	4380	4330	1070	1070	1120	1070	-	-	1927	27.17	VACD/L	891/598T
	2 x 3 1/8	2 x 2 5/8	4380	4330	1070	1070	1120	1070	-	-	1927	27.17	VACD/L	891/598Y
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2134	33.09	VACD/L	1091/686T
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2134	33.09	VACD/L	1091/686Y
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2313	33.09	VACD/L	1091/766T
	2 x 3 1/8	2 x 2 5/8	5450	5400	1070	1070	1120	1070	1070	-	2313	33.09	VACD/L	1091/766Y
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2562	39.01	VACD/L	1291/844T
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2562	39.01	VACD/L	1291/844Y
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2775	39.01	VACD/L	1291/938T
	2 x 3 1/8	2 x 2 5/8	6520	6470	1070	1070	1070	1120	1070	1070	2775	39.01	VACD/L	1291/938Y



Cota E
Dim. E
4/6/8 Ventiladores 4/6/8 Fans 575 mm
10/12 Ventiladores 10/12 Fans 580 mm

Cota F
Dim. F
4/6/8 Ventiladores 4/6/8 Fans 2300 mm
10/12 Ventiladores 10/12 Fans 2310 mm

CONSIDERANDOS INICIAIS

Após elevados investimentos e testes realizados em condições reais de funcionamento, durante a Climatización Madrid 2003, a CENTAURO lançou uma nova gama completa de evaporadores cúbicos e duplo fluxo executados com tubo inox e alheta de alumínio.

Tendo como principal aplicação instalações que funcionam com amoníaco como fluido primário, não deixa também de se constituir como uma boa solução para sistemas com fluidos secundários ou até com expansão directa de R 404A, R 507 ou outros HFC, face aos crescentes requisitos de resistência à corrosão provocada por produtos químicos usados na indústria.

CARACTERÍSTICAS PRINCIPAIS

Os catálogos de evaporadores cúbicos e duplo fluxo descrevem detalhadamente a solução construtiva, as gamas e os respectivos modelos, permitindo uma rápida selecção da solução pretendida.

Permitimo-nos realçar as seguintes características técnicas:

- Tubo inox liso 316L diâmetro 15,1 e 22,2 mm (304L sob pedido);
- Alhetas de alumínio liso ou revestido;
- Blindagem em alumínio AlMg e, sob pedido, alumínio lacado ou inox;
- Utilização dos permutadores como:
 - evaporadores sistema bombado ou inundado;
 - evaporadores sistema expansão directa;
 - condensadores arrefecidos a ar;
 - frigodifusores;
 - arrefecedores secos;
 - baterias de aquecimento;
 - baterias de arrefecimento;
- Redução de peso até 40% em relação às unidades tubo/alheta aço galvanizado;
- Redução do impacto ambiental na produção dos equipamentos e na sua exploração.

APRESENTAÇÃO DAS GAMAS

- Gama evaporador cúbico industrial com separação de alheta 4,2 / 5,0 / 8,0 / 10 e 12 mm e superfícies de permuta desde 10m² até 800m².
- Gama evaporadores para túnel com separação de alheta 12.0 e 16.0 mm e superfícies de permuta de 125m² a 700m².
- Gama evaporadores duplo fluxo com separação de alheta 4,2 / 6.3 / 8.0 e 10.0 mm e superfícies de 45m² a 512m².
- Gama equipamento especial cobrindo separação de alheta de 4,2 mm a 16 mm e "passo misto".

A comercialização desta gama SAHE teve início em Março 2003, tendo sido vendidos e instalados evaporadores em "instalações de amoníaco" em Portugal mas principalmente em Espanha, Reino Unido, Irlanda e Holanda.

Este produto CENTAURO, na certeza merecerá a V/ melhor atenção sobretudo quando ponderarem as vantagens do nosso compromisso Flexibilidade / Serviço / Qualidade / Preço.

Para este efeito anexamos os respectivos catálogos e tabela de preços (TPC).

Como sempre poderão contar com a total disponibilidade da CENTAURO para quaisquer esclarecimentos, informações, projectos especiais ou outro tipo de acções consideradas relevantes por V/ S.as. Tudo faremos para também nesta gama continuarmos a ser merecedores da V/ elevada preferência.

CAPACIDADES FRIGORIFICAS

As capacidades frigoríficas das novas tabelas na gama SAHE estão referidas a R717 (amoníaco) sistema bombado (3 recirculações).

Sob pedido podemos apresentar capacidades para outros refrigerantes e/ou outras condições.

MAIDEN CONSIDERATIONS

During Climatizacion Madrid 2003, and after large investments and tests performed under actual operation conditions, CENTAURO launched a new and complete range of cubic and double flow coolers with stainless steel tubes and aluminium fins.

These coolers have as main application the use in instalations that run with amonia as a primary fluid, nonetheless are as well a good solution for systems using secondary refrigerants, or even with direct expansion, R404A, R507 or other HFC's, due to the growing need to have a good corrosion resistance caused by chemical products used in the industry.

MAIN FEATURES

This cubic and double flow coolers catalog fully describes their construction, ranges and types and allows for a quick selections of the intended solution.

Bellow you can find their main features:

- 15,1 and 22,2 mm diameter smooth 316L stainless steel tubes (304L under request);
- Plain or epoxy coated aluminium fins;
- AlMg aluminium casing and, under request, white painted or stainless steel casing;
- Heat exchangers can be used as:
 - pumped or flooded air coolers;
 - direct expansion air coolers;
 - air cooled condensers;
 - fluid air coolers;
 - dry-coolers;
 - heating coils;
 - cooling coils;
- 40% weight reduction compared with galvanized stell tube /fin coolers;
- Reduction of the environmental impact during production and subsequent operation.

RANGE PRESENTATION

- Industrial cubic coolers range with 4,2 / 5,0 / 8,0 / 10,0 and 12,0 mm fin spacing and exchange surfaces from 10m² up to 800m²;
- Industrial tunnel coolers range with 12,0 and 16,0 mm fin spacing and exchange surfaces from 125m² up to 700m²;
- Industrial double flow coolers range with 4,2 / 6,3 / 8,0 and 10,0 mm fin spacing and exchange surfaces from 45m² up to 512m²;
- Special equipment range with 4,2 up to 16,0 mm fin spacing and multiple fin spacing (double, triple, etc...).

SAHE product range is under application on amonia plants since 2003 in Portugal but mainly in Spain, UK, Ireland and Holland.

This CENTAURO product, will for sure draw your attention when all advantages regarding our Flexibility / Service / Quality / Price comittment shall be considered

For this efect follows the SAHE catalog and price list (TPC).

As always you can count with CENTAURO's full availability for any explanation, information, special projects or other type of projects considered relevant by its customers. CENTAURO shall do anything in it's power to continue, also on this range, to be worthy of your preference.

CAPACITIES

All capacities on this SAHE range are referred to R717 (amonia), pumped system (3 recirculations).

Under request we can present capacities for other refrigerants and/or conditions.

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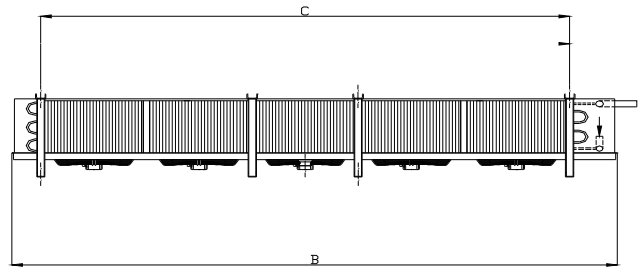
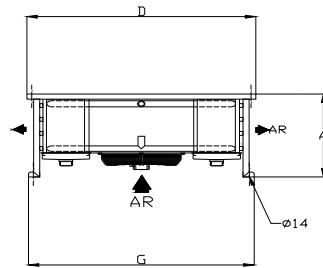
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	Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							
		kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS
CBIB	2/16.76	15.54	9.41	76.80	16.60	2	400	8100	12	1300	270	0.88	400/3/50
CBIB	3/16.76	17.99	10.90	76.80	16.60	3	400	12700	12	1300	405	1.32	400/3/50
CBIB	3/16.153	27.78	16.83	153.60	33.20	3	400	11500	12	1300	405	1.32	400/3/50
CBIB	2/16.52*	12.13	7.35	52.30	16.60	2	400	8300	12	1300	270	0.88	400/3/50
CBIB	3/16.52*	13.31	8.06	52.30	16.60	3	400	13000	12	1300	405	1.32	400/3/50
CBIB	3/16.104*	22.14	13.41	104.70	33.20	3	400	12000	12	1300	405	1.32	400/3/50
CBIB	2/16.102	18.91	11.46	102.40	22.13	2	400	8500	12	1300	270	0.88	400/3/50
CBIB	3/16.102	21.58	13.07	102.40	22.13	3	400	13200	12	1300	405	1.32	400/3/50
CBIB	3/16.204	33.40	20.23	204.90	44.26	3	400	12400	12	1300	405	1.32	400/3/50
CBIB	4/16.136	25.98	15.74	136.60	29.51	4	400	17600	12	1300	540	1.76	400/3/50
CBIB	4/16.204	34.48	20.89	204.90	44.26	4	400	17100	12	1300	540	1.76	400/3/50
CBIB	4/16.273	43.85	26.56	273.10	59.01	4	400	16600	12	1300	540	1.76	400/3/50
CBIB	5/16.256	44.76	27.12	256.10	55.33	5	400	21400	12	1300	675	2.20	400/3/50
CBIB	5/16.341	52.94	32.07	341.40	73.77	5	400	20800	12	1300	675	2.20	400/3/50
CBIB	5/16.512	63.05	38.20	512.10	110.70	5	400	19600	12	1300	675	2.20	400/3/50
CBIB	2/20.102	24.30	14.72	102.40	22.13	2	500	14100	20	1300	1500	3.00	400/3/50
CBIB	3/20.102	27.28	16.53	102.40	22.13	3	500	22100	20	1300	2250	4.50	400/3/50
CBIB	3/20.204	43.72	26.49	204.90	44.26	3	500	20400	20	1300	2250	4.50	400/3/50
CBIB	4/20.136	34.38	20.83	136.60	29.51	4	500	29500	20	1300	3000	6.00	400/3/50
CBIB	4/20.204	45.97	27.85	204.90	44.26	4	500	28100	20	1300	3000	6.00	400/3/50
CBIB	4/20.273	58.66	35.54	273.10	59.01	4	500	27100	20	1300	3000	6.00	400/3/50
CBIB	5/20.256	59.79	36.22	256.10	55.33	5	500	35200	20	1300	3750	7.50	400/3/50
CBIB	5/20.341	71.51	43.32	341.40	73.77	5	500	33900	20	1300	3750	7.50	400/3/50
CBIB	5/20.512	86.51	52.41	512.10	110.70	5	500	31500	20	1300	3750	7.50	400/3/50

Modelo Type	Preço Price	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
CBIB	2/16.76	S/P.	S/P.	S/P.	S/P.
CBIB	3/16.76	S/P.	S/P.	S/P.	S/P.
CBIB	3/16.153	S/P.	S/P.	S/P.	S/P.
CBIB	2/16.52*	S/P.	S/P.	S/P.	S/P.
CBIB	3/16.52*	S/P.	S/P.	S/P.	S/P.
CBIB	3/16.104*	S/P.	S/P.	S/P.	S/P.
CBIB	2/16.102	S/P.	S/P.	S/P.	S/P.
CBIB	3/16.102	S/P.	S/P.	S/P.	S/P.
CBIB	3/16.204	S/P.	S/P.	S/P.	S/P.
CBIB	4/16.136	S/P.	S/P.	S/P.	S/P.
CBIB	4/16.204	S/P.	S/P.	S/P.	S/P.
CBIB	4/16.273	S/P.	S/P.	S/P.	S/P.
CBIB	5/16.256	S/P.	S/P.	S/P.	S/P.
CBIB	5/16.341	S/P.	S/P.	S/P.	S/P.
CBIB	5/16.512	S/P.	S/P.	S/P.	S/P.
CBIB	2/20.102	S/P.	S/P.	S/P.	S/P.
CBIB	3/20.102	S/P.	S/P.	S/P.	S/P.
CBIB	3/20.204	S/P.	S/P.	S/P.	S/P.
CBIB	4/20.136	S/P.	S/P.	S/P.	S/P.
CBIB	4/20.204	S/P.	S/P.	S/P.	S/P.
CBIB	4/20.273	S/P.	S/P.	S/P.	S/P.
CBIB	5/20.256	S/P.	S/P.	S/P.	S/P.
CBIB	5/20.341	S/P.	S/P.	S/P.	S/P.
CBIB	5/20.512	S/P.	S/P.	S/P.	S/P.

* 6,3mm espaçamento 6,3mm fin spacing



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	G	Kg	m ³	
	6.48	1 x 9.4	400/3/50	22.0	26.9	2x1½	650	1850	1330	1420	1400	154	2.20	CBIB 2/16.76
	8.64	1 x 12.5	400/3/50	22.0	33.7	2x1½	650	2500	1980	1420	1400	178	2.91	CBIB 3/16.76
	17.28	1 x 24.9	400/3/50	22.0	33.7	2x1½	650	2500	1980	1420	1400	234	2.91	CBIB 3/16.153
	6.48	1 x 9.4	400/3/50	22.0	26.9	2x1½	650	1850	1330	1420	1400	147	2.20	CBIB 2/16.52*
	8.64	1 x 12.5	400/3/50	22.0	26.9	2x1½	650	2500	1980	1420	1400	172	2.91	CBIB 3/16.52*
	17.28	1 x 24.9	400/3/50	22.0	33.7	2x1½	650	2500	1980	1420	1400	220	2.91	CBIB 3/16.104*
	12.96	1 x 18.7	400/3/50	22.0	33.7	2x1½	780	1850	1330	1640	1626	191	2.99	CBIB 2/16.102
	12.96	1 x 18.7	400/3/50	22.0	33.7	2x1½	780	2500	1980	1640	1626	215	3.98	CBIB 3/16.102
	17.28	1 x 24.9	400/3/50	22.0	33.7	2x1½	780	2500	1980	1640	1626	287	3.98	CBIB 3/16.204
	13.50	1 x 19.5	400/3/50	22.0	33.7	2x2	780	3150	2630	1640	1626	280	4.98	CBIB 4/16.136
	18.00	1 x 26.0	400/3/50	22.0	33.7	2x2	780	3150	2630	1640	1626	327	4.98	CBIB 4/16.204
	22.50	1x19.53+1x13.02	400/3/50	33.7	42.4	2x2	780	3150	2630	1640	1626	373	4.98	CBIB 4/16.273
	25.92	2 x 18.71	400/3/50	33.7	42.4	2x2½	780	3800	3280	1640	1626	413	5.97	CBIB 5/16.256
	25.92	2 x 18.71	400/3/50	33.7	42.4	2x2½	780	3800	3280	1640	1626	470	5.97	CBIB 5/16.341
	38.88	3 x 18.71	400/3/50	33.7	42.4	2x2½	780	3800	3280	1640	1626	584	5.97	CBIB 5/16.512
	12.96	1 x 18.7	400/3/50	22.0	33.7	2x1½	850	1850	1330	1640	1626	207	3.04	CBIB 2/20.102
	12.96	1 x 18.7	400/3/50	22.0	33.7	2x1½	850	2500	1980	1640	1626	239	4.05	CBIB 3/20.102
	17.28	1 x 24.9	400/3/50	33.7	42.4	2x1½	850	2500	1980	1640	1626	311	4.05	CBIB 3/20.204
	13.50	1 x 19.5	400/3/50	22.0	33.7	2x2	850	3150	2630	1640	1626	312	5.06	CBIB 4/20.136
	18.00	1 x 26.0	400/3/50	33.7	42.4	2x2	850	3150	2630	1640	1626	359	5.06	CBIB 4/20.204
	22.50	1x19.53+1x13.02	400/3/50	33.7	42.4	2x2	850	3150	2630	1640	1626	405	5.06	CBIB 4/20.273
	25.92	2 x 18.71	400/3/50	33.7	42.4	2x2½	850	3800	3280	1640	1626	453	6.07	CBIB 5/20.256
	25.92	2 x 18.71	400/3/50	33.7	42.4	2x2½	850	3800	3280	1640	1626	510	6.07	CBIB 5/20.341
	38.88	3 x 18.71	400/3/50	42.6	48.3	2x2½	850	3800	3280	1640	1626	624	6.07	CBIB 5/20.512

		Factor de correcção Correction Factor						
		DT1 [°C]						
Tse [°C]	10	10	9	8	7	6	5	4
	8	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.016	0.914	0.812	0.710	0.609	0.506	0.406
	4	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	2	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	0	0.947	0.852	0.758	0.663	0.568	0.474	0.379
		0.871	0.784	0.697	0.610	0.523	0.436	0.348



CBIB

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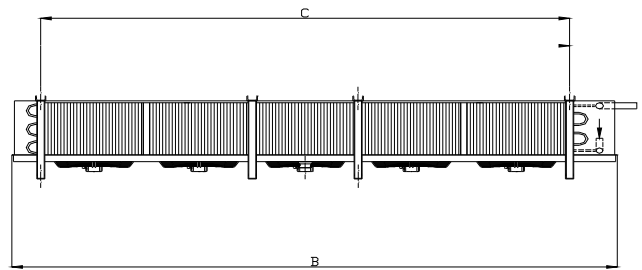
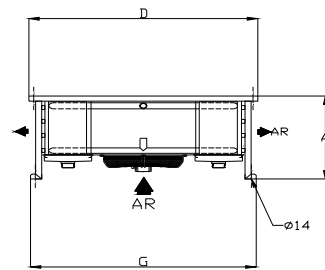
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Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Projeção Ar Air Throw m	Rotação Revolution rpm	Potência Power W	Corrente Current A	Alimentação MPS V / F / Hz	
CBIC 2/16.55	12.46	7.55	55.90	22.13	2	400	8800	12	1300	270	0.88	400/3/50	
CBIC 3/16.111	22.56	13.67	111.80	44.26	3	400	12900	12	1300	405	1.32	400/3/50	
CBIC 4/16.111	23.18	14.04	111.80	44.26	4	400	17500	12	1300	540	1.76	400/3/50	
CBIC 4/16.149	31.68	19.19	149.10	59.01	4	400	17200	12	1300	540	1.76	400/3/50	
CBIC 5/16.139	30.34	18.38	139.80	55.33	5	400	21900	12	1300	675	2.20	400/3/50	
CBIC 5/16.186	37.46	22.69	186.30	73.77	5	400	21400	12	1300	675	2.20	400/3/50	
CBIC 5/16.279	48.43	29.34	279.50	110.70	5	400	20700	12	1300	675	2.20	400/3/50	
CBIC 2/20.55	17.84	10.81	55.90	22.13	2	500	14700	20	1300	1500	3.00	400/3/50	
CBIC 3/20.111	30.87	18.70	111.80	44.26	3	500	21300	20	1300	2250	4.50	400/3/50	
CBIC 4/20.111	30.83	18.68	111.80	44.26	4	500	29300	20	1300	3000	6.00	400/3/50	
CBIC 4/20.149	42.20	25.56	149.10	59.01	4	500	28400	20	1300	3000	6.00	400/3/50	
CBIC 5/20.139	40.39	24.47	139.80	55.33	5	500	36700	20	1300	3750	7.50	400/3/50	
CBIC 5/20.186	50.12	30.36	186.30	73.77	5	500	35500	20	1300	3750	7.50	400/3/50	
CBIC 5/20.279	65.44	39.64	279.50	110.70	5	500	33600	20	1300	3750	7.50	400/3/50	

Modelo Type	Preço Price EUR	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
CBIC 2/16.55	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 3/16.111	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 4/16.111	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 4/16.149	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 5/16.139	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 5/16.186	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 5/16.279	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 2/20.55	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 3/20.111	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 4/20.111	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 4/20.149	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 5/20.139	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 5/20.186	S/P.	S/P.	S/P.	S/P.	S/P.
CBIC 5/20.279	S/P.	S/P.	S/P.	S/P.	S/P.



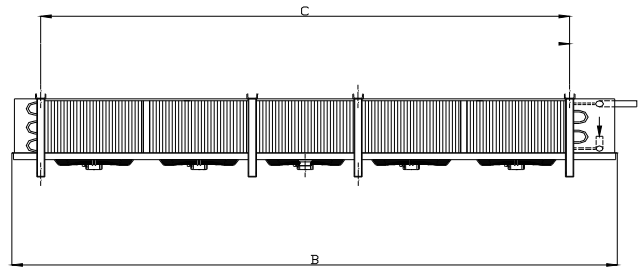
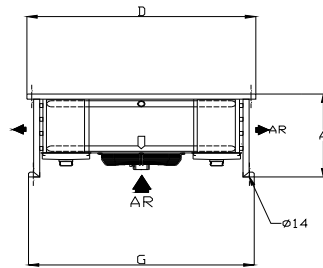
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	G	Kg	m ³	
	12.96	1 x 18.7	400/3/50	22.0	33.7	2x1½	780	1850	1330	1640	1626	176	2.99	CBIC 2/16.55
	17.28	1 x 24.9	400/3/50	22.0	42.4	2x1½	780	2500	1980	1640	1626	257	3.98	CBIC 3/16.111
	18.00	1 x 26.0	400/3/50	22.0	42.4	2x2	780	3150	2630	1640	1626	297	4.98	CBIC 4/16.111
	22.50	1x19.53+1x13.02	400/3/50	22.0	48.3	2x2	780	3150	2630	1640	1626	333	4.98	CBIC 4/16.149
	25.92	2 x 18.71	400/3/50	22.0	48.3	2x2½	780	3800	3280	1640	1626	375	5.97	CBIC 5/16.139
	25.92	2 x 18.71	400/3/50	22.0	48.3	2x2½	780	3800	3280	1640	1626	420	5.97	CBIC 5/16.186
	38.88	3 x 18.71	400/3/50	33.7	48.3	2x2½	780	3800	3280	1640	1626	509	5.97	CBIC 5/16.279
	12.96	1 x 18.7	400/3/50	22.0	42.4	2x1½	850	1850	1330	1640	1626	192	3.04	CBIC 2/20.55
	17.28	1 x 24.9	400/3/50	22.0	48.3	2x1½	850	2500	1980	1640	1626	281	4.05	CBIC 3/20.111
	18.00	1 x 26.0	400/3/50	22.0	48.3	2x2	850	3150	2630	1640	1626	329	5.06	CBIC 4/20.111
	22.50	1x19.53+1x13.02	400/3/50	22.0	48.3	2x2	850	3150	2630	1640	1626	365	5.06	CBIC 4/20.149
	25.92	2 x 18.71	400/3/50	22.0	48.3	2x2½	850	3800	3280	1640	1626	415	6.07	CBIC 5/20.139
	25.92	2 x 18.71	400/3/50	33.7	48.3	2x2½	850	3800	3280	1640	1626	460	6.07	CBIC 5/20.186
	38.88	3 x 18.71	400/3/50	33.7	60.3	2x2½	850	3800	3280	1640	1626	549	6.07	CBIC 5/20.279

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295



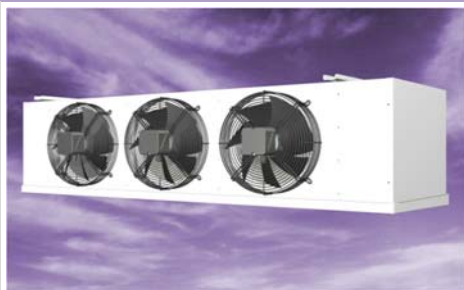
Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Projeção Ar Air Throw m	Rotação Revolution rpm	Potência Power W	Corrente Current A	Alimentação MPS V / F / Hz	
CBIL 2/16.45	10.25	6.21	45.62	22.13	2	400	8800	12	1300	270	0.88	400/3/50	
CBIL 3/16.91	19.21	11.64	91.23	44.26	3	400	13000	12	1300	405	1.32	400/3/50	
CBIL 4/16.91	18.98	11.50	91.23	44.26	4	400	17700	12	1300	540	1.76	400/3/50	
CBIL 4/16.121	26.43	16.01	121.60	59.01	4	400	17300	12	1300	540	1.76	400/3/50	
CBIL 5/16.114	24.87	15.07	114.00	55.33	5	400	22100	12	1300	675	2.20	400/3/50	
CBIL 5/16.152	31.08	18.83	152.10	73.77	5	400	21700	12	1300	675	2.20	400/3/50	
CBIL 5/16.228	41.09	24.89	228.10	110.70	5	400	20900	12	1300	675	2.20	400/3/50	
CBIL 2/20.45	13.60	8.24	45.62	22.13	2	500	12900	22	1300	1500	3.00	400/3/50	
CBIL 3/20.91	25.60	15.51	91.23	44.26	3	500	18800	22	1300	2250	4.50	400/3/50	
CBIL 4/20.91	25.19	15.26	91.23	44.26	4	500	25800	22	1300	3000	6.00	400/3/50	
CBIL 4/20.121	35.16	21.30	121.60	59.01	4	500	25000	22	1300	3000	6.00	400/3/50	
CBIL 5/20.114	33.08	20.04	114.00	55.33	5	500	32300	22	1300	3750	7.50	400/3/50	
CBIL 5/20.152	38.38	23.25	152.10	73.77	5	500	31300	22	1300	3750	7.50	400/3/50	
CBIL 5/20.228	51.23	31.04	228.10	110.70	5	500	29900	22	1300	3750	7.50	400/3/50	

Modelo Type	Preço Price EUR	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
CBIL 2/16.45	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 3/16.91	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 4/16.91	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 4/16.121	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 5/16.114	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 5/16.152	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 5/16.228	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 2/20.45	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 3/20.91	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 4/20.91	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 4/20.121	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 5/20.114	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 5/20.152	S/P.	S/P.	S/P.	S/P.	S/P.
CBIL 5/20.228	S/P.	S/P.	S/P.	S/P.	S/P.



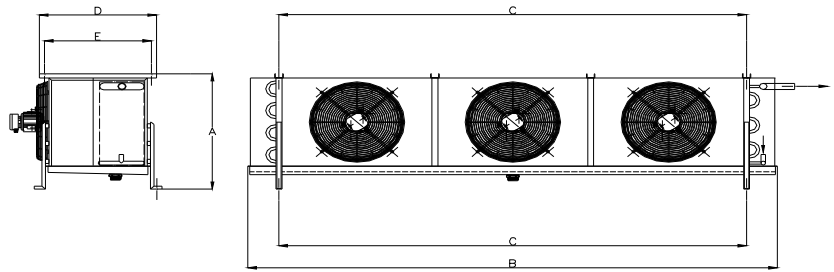
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	G	Kg	m ³	
	12.96	1 x 18.7	400/3/50	22.0	33.7	2x1½	780	1850	1330	1640	1626	180	2.99	CBIL 2/16.45
	17.28	1 x 24.9	400/3/50	22.0	42.4	2x1½	780	2500	1980	1640	1626	263	3.98	CBIL 3/16.91
	18.00	1 x 26.0	400/3/50	22.0	42.4	2x2	780	3150	2630	1640	1626	303	4.98	CBIL 4/16.91
	22.50	1x19.53+1x13.02	400/3/50	22.0	48.3	2x2	780	3150	2630	1640	1626	341	4.98	CBIL 4/16.121
	25.92	2 x 18.71	400/3/50	22.0	48.3	2x2½	780	3800	3280	1640	1626	383	5.97	CBIL 5/16.114
	25.92	2 x 18.71	400/3/50	22.0	48.3	2x2½	780	3800	3280	1640	1626	431	5.97	CBIL 5/16.152
	38.88	3 x 18.71	400/3/50	22.0	48.3	2x2½	780	3800	3280	1640	1626	526	5.97	CBIL 5/16.228
	12.96	1 x 18.7	400/3/50	22.0	33.7	2x1½	850	1850	1330	1640	1626	196	3.04	CBIL 2/20.45
	17.28	1 x 24.9	400/3/50	22.0	42.4	2x1½	850	2500	1980	1640	1626	287	4.05	CBIL 3/20.91
	18.00	1 x 26.0	400/3/50	22.0	42.4	2x2	850	3150	2630	1640	1626	335	5.06	CBIL 4/20.91
	22.50	1x19.53+1x13.02	400/3/50	22.0	48.3	2x2	850	3150	2630	1640	1626	373	5.06	CBIL 4/20.121
	25.92	2 x 18.71	400/3/50	22.0	48.3	2x2½	850	3800	3280	1640	1626	423	6.07	CBIL 5/20.114
	25.92	2 x 18.71	400/3/50	22.0	48.3	2x2½	850	3800	3280	1640	1626	471	6.07	CBIL 5/20.152
	38.88	3 x 18.71	400/3/50	33.7	60.3	2x2½	850	3800	3280	1640	1626	566	6.07	CBIL 5/20.228

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295



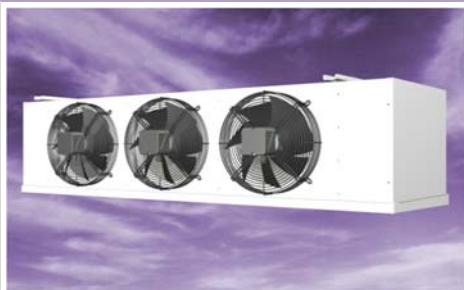
	Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
		kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current		Alimentação MPS
MTI	1/16.19	4.71		19.03	3.53	1	400	3500	15	1300	135	0.44	400/3/50	
MTI	1/16.28	5.77		28.54	5.30	1	400	3200	14	1300	135	0.44	400/3/50	
MTI	2/16.38	9.45		38.06	7.06	2	400	7100	15	1300	270	0.88	400/3/50	
MTI	2/16.57	12.05		57.08	10.59	2	400	6400	14	1300	270	0.88	400/3/50	
MTI	2/16.76	13.82		76.11	14.12	2	400	6000	12	1300	270	0.88	400/3/50	
MTI	3/16.57	13.60		57.08	10.59	3	400	10600	15	1300	405	1.32	400/3/50	
MTI	3/16.85	18.45		85.62	15.89	3	400	9600	14	1300	405	1.32	400/3/50	
MTI	3/16.114	21.25		114.16	21.18	3	400	9000	12	1300	405	1.32	400/3/50	
MTI	2/20.82	18.25		82.33	15.27	2	500	11400	22	1300	1500	3.00	400/3/50	
MTI	2/20.98	20.90		98.80	18.33	2	500	11000	22	1300	1500	3.00	400/3/50	
MTI	2/20.131	24.43		131.70	24.44	2	500	10400	20	1300	1500	3.00	400/3/50	
MTI	3/20.98	24.53		98.80	18.33	3	500	17800	22	1300	2250	4.50	400/3/50	
MTI	3/20.123	28.48		123.50	22.91	3	500	17100	22	1300	2250	4.50	400/3/50	
MTI	3/20.197	36.70		197.60	36.66	3	500	15500	20	1300	2250	4.50	400/3/50	
MTI	4/20.164	37.41		164.70	30.55	4	500	22800	22	1300	3000	6.00	400/3/50	
MTI	4/20.263	49.00		263.50	48.88	4	500	20700	20	1300	3000	6.00	400/3/50	

Modelo Type	Preço Price	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
MTI	1/16.19	S/P.	S/P.	S/P.	S/P.
MTI	1/16.28	S/P.	S/P.	S/P.	S/P.
MTI	2/16.38	S/P.	S/P.	S/P.	S/P.
MTI	2/16.57	S/P.	S/P.	S/P.	S/P.
MTI	2/16.76	S/P.	S/P.	S/P.	S/P.
MTI	3/16.57	S/P.	S/P.	S/P.	S/P.
MTI	3/16.85	S/P.	S/P.	S/P.	S/P.
MTI	3/16.114	S/P.	S/P.	S/P.	S/P.
MTI	2/20.82	S/P.	S/P.	S/P.	S/P.
MTI	2/20.98	S/P.	S/P.	S/P.	S/P.
MTI	2/20.131	S/P.	S/P.	S/P.	S/P.
MTI	3/20.98	S/P.	S/P.	S/P.	S/P.
MTI	3/20.123	S/P.	S/P.	S/P.	S/P.
MTI	3/20.197	S/P.	S/P.	S/P.	S/P.
MTI	4/20.164	S/P.	S/P.	S/P.	S/P.
MTI	4/20.263	S/P.	S/P.	S/P.	S/P.



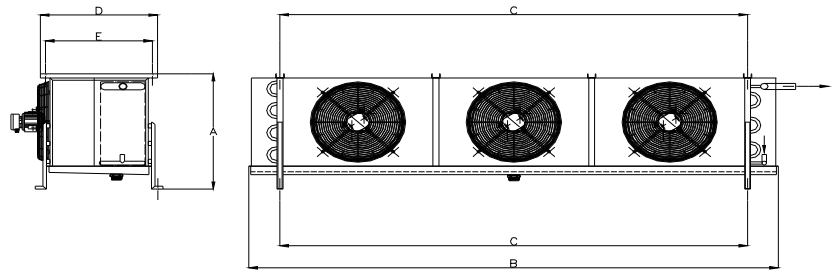
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	E	Kg	m ³	
	2.04	1x2.94	400/3/50	22.0	33.7	1½	695	1100	680	620	560	54	0.87	MTI 1/16.19
	3.60	1x5.20	400/3/50	22.0	33.7	1½	695	1100	680	620	560	63	0.87	MTI 1/16.28
	5.76	1x8.31	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	86	1.34	MTI 2/16.38
	5.76	1x8.31	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	98	1.34	MTI 2/16.57
	7.20	1x10.39	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	112	1.34	MTI 2/16.76
	10.80	1x15.59	400/3/50	22.0	33.7	2	695	2400	1980	620	560	118	1.81	MTI 3/16.57
	10.80	1x15.59	400/3/50	22.0	33.7	2	695	2400	1980	620	560	136	1.81	MTI 3/16.85
	10.80	1x15.59	400/3/50	22.0	33.7	2	695	2400	1980	620	560	155	1.81	MTI 3/16.114
	10.80	1x15.59	400/3/50	22.0	33.7	1½	820	2350	1830	685	625	137	2.25	MTI 2/20.82
	10.80	1x15.59	400/3/50	22.0	33.7	1½	820	2350	1830	685	625	146	2.25	MTI 2/20.98
	10.80	1x15.59	400/3/50	22.0	33.7	1½	820	2350	1830	685	625	167	2.25	MTI 2/20.131
	11.04	1x15.93	400/3/50	22.0	33.7	2	820	3250	2730	685	625	182	3.07	MTI 3/20.98
	11.04	1x15.93	400/3/50	22.0	33.7	2	820	3250	2730	685	625	197	3.07	MTI 3/20.123
	16.56	1x23.90	400/3/50	22.0	33.7	2	820	3250	2730	685	625	242	3.07	MTI 3/20.197
	17.04	1x24.60	400/3/50	22.0	33.7	2	820	4150	3630	685	625	241	3.90	MTI 4/20.164
	25.56	1x24.59+1x12.30	400/3/50	26.9	33.7	2	820	4150	3630	685	625	300	3.90	MTI 4/20.263

		Factor de correcção Correction Factor						
		DT1 [°C]						
Tse [°C]	10	9	8	7	6	5	4	
	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	8	1.016	0.914	0.812	0.710	0.609	0.506	0.406
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348



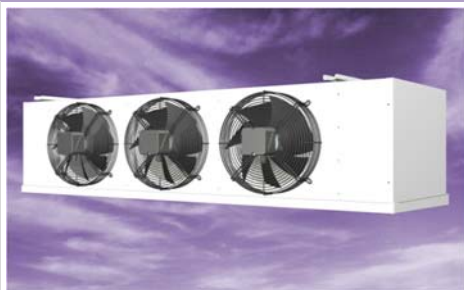
	Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
		kW	kW			m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	
DDI	1/16.10	3.19	1.93	10.49	3.53	1	400	3800	16	1300	135.00	0.44	400/3/50	
DDI	1/16.13	3.85	2.33	13.11	4.41	1	400	3600	16	1300	135.00	0.44	400/3/50	
DDI	1/16.20	5.13	3.11	20.97	7.06	1	400	3500	14	1300	135.00	0.44	400/3/50	
DDI	1/16.26	5.96	3.61	26.22	8.83	1	400	3100	12	1300	135.00	0.44	400/3/50	
DDI	2/16.26	7.71	4.67	26.22	8.83	2	400	7300	16	1300	270.00	0.88	400/3/50	
DDI	2/16.41	10.61	6.43	41.95	14.12	2	400	6500	14	1300	270.00	0.88	400/3/50	
DDI	2/16.52	11.63	7.05	52.43	17.65	2	400	6200	12	1300	270.00	0.88	400/3/50	
DDI	3/16.47	13.31	8.06	47.19	15.89	3	400	10500	16	1300	405.00	1.32	400/3/50	
DDI	3/16.62	16.03	9.71	62.92	21.18	3	400	9800	14	1300	405.00	1.32	400/3/50	
DDI	2/20.36	11.09	6.72	36.30	12.22	2	500	12400	24	1300	1500.00	3.00	400/3/50	
DDI	2/20.54	15.17	9.19	54.45	18.33	2	500	11800	24	1300	1500.00	3.00	400/3/50	
DDI	2/20.72	18.41	11.15	72.60	24.44	2	500	11100	22	1300	1500.00	3.00	400/3/50	
DDI	2/20.90	21.04	12.75	90.75	30.55	2	500	10700	20	1300	1500.00	3.00	400/3/50	
DDI	3/20.108	27.25	16.51	108.90	36.66	3	500	16700	22	1300	2250.00	4.50	400/3/50	
DDI	3/20.136	31.09	18.83	136.10	45.82	3	500	16000	20	1300	2250.00	4.50	400/3/50	
DDI	4/20.145	36.89	22.35	145.20	48.88	4	500	22700	22	1300	3000.00	6.00	400/3/50	
DDI	4/20.181	42.15	25.53	181.50	61.10	4	500	21300	20	1300	3000.00	6.00	400/3/50	

Modelo Type	Preço Price	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
DDI	1/16.10	S/P.	S/P.	S/P.	S/P.
DDI	1/16.13	S/P.	S/P.	S/P.	S/P.
DDI	1/16.20	S/P.	S/P.	S/P.	S/P.
DDI	1/16.26	S/P.	S/P.	S/P.	S/P.
DDI	2/16.26	S/P.	S/P.	S/P.	S/P.
DDI	2/16.41	S/P.	S/P.	S/P.	S/P.
DDI	2/16.52	S/P.	S/P.	S/P.	S/P.
DDI	3/16.47	S/P.	S/P.	S/P.	S/P.
DDI	3/16.62	S/P.	S/P.	S/P.	S/P.
DDI	2/20.36	S/P.	S/P.	S/P.	S/P.
DDI	2/20.54	S/P.	S/P.	S/P.	S/P.
DDI	2/20.72	S/P.	S/P.	S/P.	S/P.
DDI	2/20.90	S/P.	S/P.	S/P.	S/P.
DDI	3/20.108	S/P.	S/P.	S/P.	S/P.
DDI	3/20.136	S/P.	S/P.	S/P.	S/P.
DDI	4/20.145	S/P.	S/P.	S/P.	S/P.
DDI	4/20.181	S/P.	S/P.	S/P.	S/P.



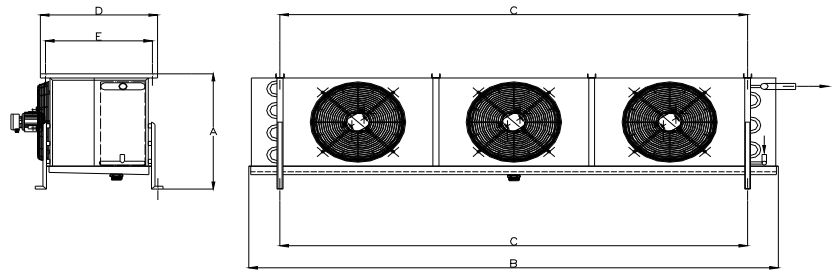
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	E	Kg	m ³	
	2.04	1x2.94	400/3/50	22.0	33.7	1½	695	1100	680	620	560	52	0.87	DDI 1/16.10
	2.04	1x2.94	400/3/50	22.0	33.7	1½	695	1100	680	620	560	55	0.87	DDI 1/16.13
	3.60	1x5.20	400/3/50	22.0	33.7	1½	695	1100	680	620	560	65	0.87	DDI 1/16.20
	5.40	1x7.79	400/3/50	22.0	33.7	1½	695	1100	680	620	560	71	0.87	DDI 1/16.26
	5.76	1x8.3	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	85	1.34	DDI 2/16.26
	5.76	1x8.3	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	100	1.34	DDI 2/16.41
	8.64	1x12.47	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	110	1.34	DDI 2/16.52
	10.80	1x15.59	400/3/50	22.0	33.7	2	695	2400	1980	620	560	125	1.81	DDI 3/16.47
	10.80	1x15.59	400/3/50	22.0	42.4	2	695	2400	1980	620	560	139	1.81	DDI 3/16.62
	8.64	1x12.47	400/3/50	22.0	33.7	1½	820	2350	1830	685	625	117	2.25	DDI 2/20.36
	8.64	1x12.47	400/3/50	22.0	42.4	1½	820	2350	1830	685	625	132	2.25	DDI 2/20.54
	8.64	1x12.47	400/3/50	22.0	42.4	1½	820	2350	1830	685	625	148	2.25	DDI 2/20.72
	8.64	1x12.47	400/3/50	22.0	42.4	1½	820	2350	1830	685	625	164	2.25	DDI 2/20.90
	11.04	1x15.93	400/3/50	22.0	42.4	2	820	3250	2730	685	625	213	3.07	DDI 3/20.108
	16.56	1x23.90	400/3/50	22.0	48.3	2	820	3250	2730	685	625	237	3.07	DDI 3/20.136
	17.04	1x24.60	400/3/50	26.9	48.3	2	820	4150	3630	685	625	263	3.90	DDI 4/20.145
	25.56	1x24.59 + 1x12.30	400/3/50	26.9	60.3	2	820	4150	3630	685	625	293	3.90	DDI 4/20.181

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295



	Modelo Type	Capacidade Capacity (Tse=+4°C / DT1=10°C)	Capacidade Capacity (Tse=+4°C / DT1=10°C)	Capacidade Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							
							Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS
MTI	DLI 1/16.17	4.31	2.61	17.20	7.06	1	400	3340	14	1300	135	0.44	400/3/50	
	DLI 1/16.21	5.07	3.07	21.50	8.83	1	400	3170	12	1300	135	0.44	400/3/50	
	DLI 2/16.17	5.27	3.19	17.20	7.06	2	400	7760	16	1300	270	0.88	400/3/50	
	DLI 2/16.25	7.31	4.43	25.80	10.59	2	400	7130	16	1300	270	0.88	400/3/50	
	DLI 2/16.34	8.94	5.42	34.39	14.12	2	400	6690	14	1300	270	0.88	400/3/50	
	DLI 2/16.42	10.15	6.15	42.99	17.65	2	400	6330	12	1300	270	0.88	400/3/50	
	DLI 3/16.38	11.14	6.75	38.69	15.89	3	400	10700	16	1300	405	1.32	400/3/50	
	DLI 3/16.51	13.52	8.19	51.59	21.18	3	400	10030	14	1300	405	1.32	400/3/50	
DDI	DLI 3/16.64	15.49	9.38	64.49	26.48	3	400	9500	12	1300	405	1.32	400/3/50	
	DLI 2/20.29	10.27	6.22	29.76	12.22	2	500	12500	24	1300	1500	3.00	400/3/50	
	DLI 2/20.44	14.58	8.83	44.65	18.33	2	500	11900	24	1300	1500	3.00	400/3/50	
	DLI 2/20.59	17.84	10.81	59.53	24.44	2	500	11300	22	1300	1500	3.00	400/3/50	
	DLI 2/20.74	20.56	12.46	74.41	30.55	2	500	10900	20	1300	1500	3.00	400/3/50	
	DLI 3/20.55	18.67	11.31	55.81	22.91	3	500	18300	24	1300	2250	4.50	400/3/50	
	DLI 3/20.89	26.31	15.94	89.29	36.66	3	500	17000	22	1300	2250	4.50	400/3/50	
	DLI 3/20.111	30.28	18.34	111.60	45.82	3	500	16300	20	1300	2250	4.50	400/3/50	
DLI	DLI 4/20.119	35.74	21.65	119.10	48.88	4	500	22700	22	1300	3000	6.00	400/3/50	
	DLI 4/20.148	41.17	24.94	148.80	61.10	4	500	21700	20	1300	3000	6.00	400/3/50	

	Modelo Type	Preço Price	Opções Options			
			Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
DDCI	DLI 1/16.17	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 1/16.21	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 2/16.17	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 2/16.25	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 2/16.34	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 2/16.42	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 3/16.38	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 3/16.51	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI	DLI 3/16.64	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 2/20.29	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 2/20.44	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 2/20.59	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 2/20.74	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 3/20.55	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 3/20.89	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 3/20.111	S/P.	S/P.	S/P.	S/P.	S/P.
BSUI	DLI 4/20.119	S/P.	S/P.	S/P.	S/P.	S/P.
	DLI 4/20.148	S/P.	S/P.	S/P.	S/P.	S/P.



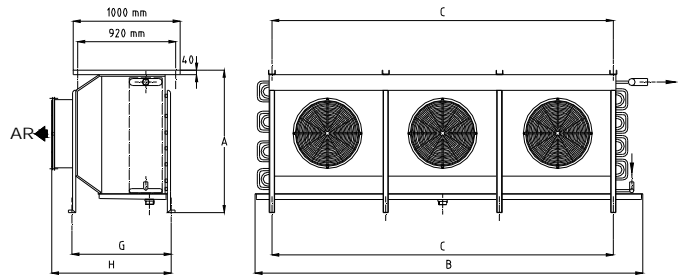
	Dados eléctricos Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	E			
	3.60	1x5.20	400/3/50	22.0	33.7	1½	mm					Kg	m³	DLI 1/16.17
	5.40	1x7.79	400/3/50	22.0	33.7	1½	695	1100	680	620	560	66	0.87	DLI 1/16.21
	5.76	1x8.31	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	81	1.34	DLI 2/16.17
	5.76	1x8.31	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	91	1.34	DLI 2/16.25
	5.76	1x8.31	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	101	1.34	DLI 2/16.34
	8.64	1x12.47	400/3/50	22.0	33.7	1½	695	1750	1330	620	560	111	1.34	DLI 2/16.42
	10.80	1x15.59	400/3/50	22.0	33.7	2	695	2400	1980	620	560	127	1.81	DLI 3/16.38
	10.80	1x15.59	400/3/50	22.0	33.7	2	695	2400	1980	620	560	142	1.81	DLI 3/16.51
	16.20	1x23.38	400/3/50	22.0	42.4	2	695	2400	1980	620	560	157	1.81	DLI 3/16.64
	8.64	1x12.47	400/3/50	22.0	33.7	1½	820	2350	1830	685	625	118	2.25	DLI 2/20.29
	8.64	1x12.47	400/3/50	22.0	42.4	1½	820	2350	1830	685	625	135	2.25	DLI 2/20.44
	8.64	1x12.47	400/3/50	22.0	42.4	1½	820	2350	1830	685	625	152	2.25	DLI 2/20.59
	12.96	1x18.71	400/3/50	22.0	42.4	1½	820	2350	1830	685	625	169	2.25	DLI 2/20.74
	11.04	1x15.93	400/3/50	22.0	42.4	2	820	3250	2730	685	625	182	3.07	DLI 3/20.55
	11.04	1x15.93	400/3/50	22.0	48.3	2	820	3250	2730	685	625	219	3.07	DLI 3/20.89
	16.56	1x23.90	400/3/50	22.0	48.3	2	820	3250	2730	685	625	243	3.07	DLI 3/20.111
	17.04	1x24.60	400/3/50	22.0	48.3	2	820	4150	3630	685	625	270	3.90	DLI 4/20.119
	25.56	1x24.59 +1x12.30	400/3/50	22.0	48.3	2	820	4150	3630	685	625	300	3.90	DLI 4/20.148

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295



Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
MTBI 1/24.138	30.42		138.00	35.75	1	600	12200	30	1300	1350	2.44	400/3/50	
MTBI 1/24.184	34.19		184.10	47.67	1	600	11500	30	1300	1350	2.44	400/3/50	
MTBI 1/24.207	35.66		207.10	53.62	1	600	11300	30	1300	1350	2.44	400/3/50	
MTBI 2/24.184	48.85		184.10	47.67	2	600	26200	30	1300	2700	4.88	400/3/50	
MTBI 2/24.276	61.03		276.10	71.50	2	600	24400	30	1300	2700	4.88	400/3/50	
MTBI 2/24.414	71.05		414.10	107.20	2	600	22500	30	1300	2700	4.88	400/3/50	
MTBI 3/24.414	88.67		414.10	107.20	3	600	36700	30	1300	4050	7.32	400/3/50	
MTBI 3/24.621	103.46		621.20	160.90	3	600	33800	30	1300	4050	7.32	400/3/50	
MTBI 4/24.552	122.25		552.20	143.00	4	600	48900	30	1300	5400	9.76	400/3/50	
MTBI 4/24.736	137.25		736.30	190.70	4	600	46200	30	1300	5400	9.76	400/3/50	
MTBI 4/24.828	142.25		828.30	214.50	4	600	45100	30	1300	5400	9.76	400/3/50	

Modelo Type	Preço Price	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
MTBI 1/24.138	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 1/24.184	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 1/24.207	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 2/24.184	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 2/24.276	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 2/24.414	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 3/24.414	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 3/24.621	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 4/24.552	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 4/24.736	S/P.	S/P.	S/P.	S/P.	S/P.
MTBI 4/24.828	S/P.	S/P.	S/P.	S/P.	S/P.



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	G	H	Kg	m ³	
	14.85	1x12.87+1x8.58	400/3/50	22.0	33.7	2	1307	1650	1100	930	1170	250	3.13	MTBI 1/24.138
	20.79	1x17.16+1x12.87	400/3/50	22.0	33.7	2	1307	1650	1100	930	1170	287	3.13	MTBI 1/24.184
	20.79	1x17.16+1x12.87	400/3/50	22.0	33.7	2	1307	1650	1100	930	1170	306	3.13	MTBI 1/24.207
	16.80	2x12.2	400/3/50	26.9	33.7	2	1307	2700	2150	930	1170	362	4.82	MTBI 2/24.184
	21.00	1x18.18+1x12.12	400/3/50	26.9	42.4	2	1307	2700	2150	930	1170	430	4.82	MTBI 2/24.276
	29.40	1x24.24+1x18.18	400/3/50	26.9	42.4	2	1307	2700	2150	930	1170	534	4.82	MTBI 2/24.414
	32.40	1x28.06+1x18.71	400/3/50	33.7	48.3	2½	1307	3750	3200	930	1170	612	6.70	MTBI 3/24.414
	45.36	2x18.71+1x28.06	400/3/50	33.7	48.3	2½	1307	3750	3200	930	1170	762	6.70	MTBI 3/24.621
	45.00	2x25.98+1x12.99	400/3/50	33.7	48.3	3	1307	4800	4250	930	1170	794	8.58	MTBI 4/24.552
	63.00	3x25.98+1x12.99	400/3/50	33.7	60.3	3	1307	4800	4250	930	1170	925	8.58	MTBI 4/24.736
	63.00	3x25.98+1x12.99	400/3/50	33.7	60.3	3	1307	4800	4250	930	1170	991	8.58	MTBI 4/24.828

		Factor de correcção Correction Factor						
		DT1 [°C]						
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	8	1.016	0.914	0.812	0.710	0.609	0.506	0.406
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348

DDCI

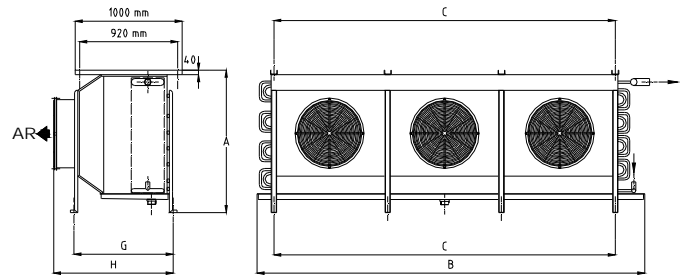
Evaporadores Cúbicos Industriais
Espaçamento Fin Spacing
Ø Ventiladores Ø Fans

Industrial Cubic Coolers
8,0 mm
600 mm



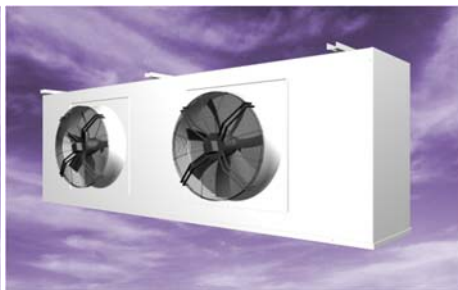
Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
					Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Projeção Ar Air Throw	Rotação Revolution	Potência Power	Corrente Current	
DDCI 1/24.90	24.15	14.63	90.30	35.75	1	600	12800	30	1300	1350	2.44	400/3/50
DDCI 1/24.120	28.37	17.19	120.40	47.67	1	600	12000	30	1300	1350	2.44	400/3/50
DDCI 1/24.135	30.33	18.37	135.50	53.62	1	600	11900	30	1300	1350	2.44	400/3/50
DDCI 2/24.120	36.89	22.35	120.40	47.67	2	600	27200	30	1300	2700	4.88	400/3/50
DDCI 2/24.180	48.39	29.31	180.60	71.50	2	600	25600	30	1300	2700	4.88	400/3/50
DDCI 2/24.270	60.12	36.42	270.90	107.20	2	600	23800	30	1300	2700	4.88	400/3/50
DDCI 3/24.270	69.71	42.23	270.90	107.20	3	600	38300	30	1300	4050	7.32	400/3/50
DDCI 3/24.406	86.69	52.52	406.40	160.90	3	600	35700	30	1300	4050	7.32	400/3/50
DDCI 4/24.361	96.88	58.69	361.20	143.00	4	600	51100	30	1300	5400	9.76	400/3/50
DDCI 4/24.481	113.75	68.91	481.60	190.70	4	600	48700	30	1300	5400	9.76	400/3/50
DDCI 4/24.541	120.33	72.90	541.80	214.50	4	600	47600	30	1300	5400	9.76	400/3/50

Modelo Type	Preço Price	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
DDCI 1/24.90	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 1/24.120	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 1/24.135	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 2/24.120	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 2/24.180	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 2/24.270	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 3/24.270	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 3/24.406	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 4/24.361	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 4/24.481	S/P.	S/P.	S/P.	S/P.	S/P.
DDCI 4/24.541	S/P.	S/P.	S/P.	S/P.	S/P.



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	G	H	Kg	m ³	
	14.85	1x12.87+1x8.58	400/3/50	22.0	42.4	2	1307	1650	1100	930	1170	235	3.13	DDCI 1/24.90
	20.79	1x17.16+1x12.87	400/3/50	22.0	42.4	2	1307	1650	1100	930	1170	268	3.13	DDCI 1/24.120
	20.79	1x17.16+1x12.87	400/3/50	22.0	42.4	2	1307	1650	1100	930	1170	284	3.13	DDCI 1/24.135
	16.80	2x12.2	400/3/50	22.0	48.3	2	1307	2700	2150	930	1170	342	4.82	DDCI 2/24.120
	21.00	1x18.18+1x12.12	400/3/50	26.9	48.3	2	1307	2700	2150	930	1170	400	4.82	DDCI 2/24.180
	29.40	1x24.24+1x18.18	400/3/50	26.9	60.3	2	1307	2700	2150	930	1170	490	4.82	DDCI 2/24.270
	32.40	1x28.06+1x18.71	400/3/50	26.9	60.3	2½	1307	3750	3200	930	1170	568	6.70	DDCI 3/24.270
	45.36	2x18.71+1x28.06	400/3/50	33.7	60.3	2½	1307	3750	3200	930	1170	696	6.70	DDCI 3/24.406
	45.00	2x25.98+1x12.99	400/3/50	33.7	60.3	3	1307	4800	4250	930	1170	734	8.58	DDCI 4/24.361
	63.00	3x25.98+1x12.99	400/3/50	33.7	60.3	3	1307	4800	4250	930	1170	846	8.58	DDCI 4/24.481
	63.00	3x25.98+1x12.99	400/3/50	33.7	60.3	3	1307	4800	4250	930	1170	902	8.58	DDCI 4/24.541

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295



CBIB

CBIC

CBIL

MTI

DDI

DLI

MTBI

DDCI

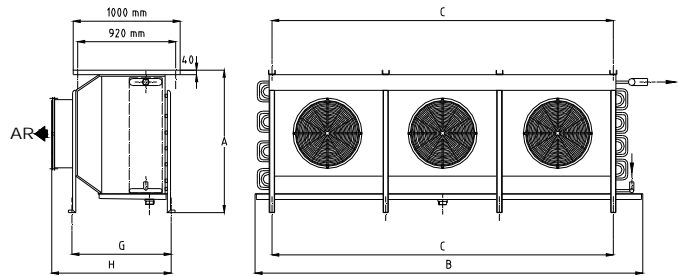
DDLI

BSUI

BSUI

Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans							Alimentação MPS
					Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Projeção Ar Air Throw m	Rotação Revolution rpm	Potência Power W	Corrente Current A	
DDLI 1/24.73	20.77	12.58	73.69	35.75	1	600	13000	30	1300	1350	2.44	400/3/50
DDLI 1/24.98	24.78	15.01	98.25	47.67	1	600	12400	30	1300	1350	2.44	400/3/50
DDLI 1/24.110	26.75	16.21	110.50	53.62	1	600	12200	30	1300	1350	2.44	400/3/50
DDLI 2/24.98	30.55	18.51	98.00	47.67	2	600	27600	30	1300	2700	4.88	400/3/50
DDLI 2/24.147	41.58	25.19	147.00	71.50	2	600	26100	30	1300	2700	4.88	400/3/50
DDLI 2/24.221	52.87	32.03	221.10	107.20	2	600	24300	30	1300	2700	4.88	400/3/50
DDLI 3/24.221	58.71	35.57	221.10	107.20	3	600	39100	30	1300	4050	7.32	400/3/50
DDLI 3/24.331	74.86	45.35	331.60	160.90	3	600	36500	30	1300	4050	7.32	400/3/50
DDLI 4/24.294	83.20	50.40	294.80	143.00	4	600	52200	30	1300	5400	9.76	400/3/50
DDLI 4/24.393	99.24	60.12	393.00	190.70	4	600	49700	30	1300	5400	9.76	400/3/50
DDLI 4/24.442	105.85	64.12	442.10	214.50	4	600	48700	30	1300	5400	9.76	400/3/50

Modelo Type	Preço Price EUR	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
DDLI 1/24.73	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 1/24.98	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 1/24.110	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 2/24.98	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 2/24.147	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 2/24.221	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 3/24.221	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 3/24.331	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 4/24.294	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 4/24.393	S/P.	S/P.	S/P.	S/P.	S/P.
DDLI 4/24.442	S/P.	S/P.	S/P.	S/P.	S/P.



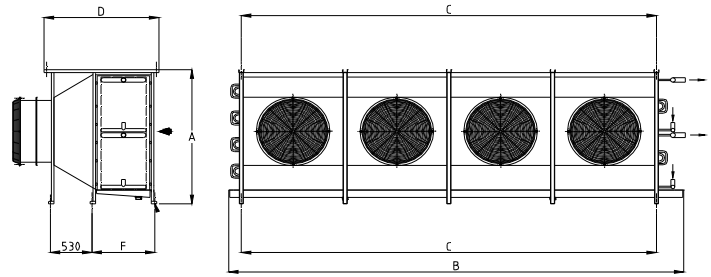
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	G	H	Kg	m ³	
	14.85	1x12.87+1x8.58	400/3/50	22.0	42.4	2	1307	1650	1100	930	1170	240	3.13	DDLI 1/24.73
	20.79	1x17.16+1x12.87	400/3/50	22.0	42.4	2	1307	1650	1100	930	1170	274	3.13	DDLI 1/24.98
	20.79	1x17.16+1x12.87	400/3/50	22.0	42.4	2	1307	1650	1100	930	1170	291	3.13	DDLI 1/24.110
	16.80	2x12.2	400/3/50	22.0	42.4	2	1307	2700	2150	930	1170	349	4.82	DDLI 2/24.98
	21.00	1x18.18+1x12.12	400/3/50	22.0	48.3	2	1307	2700	2150	930	1170	411	4.82	DDLI 2/24.147
	29.40	1x24.24+1x18.18	400/3/50	26.9	48.3	2	1307	2700	2150	930	1170	505	4.82	DDLI 2/24.221
	32.40	1x28.06+1x18.71	400/3/50	26.9	60.3	2½	1307	3750	3200	930	1170	583	6.70	DDLI 3/24.221
	45.36	2x18.71+1x28.06	400/3/50	33.7	60.3	2½	1307	3750	3200	930	1170	719	6.70	DDLI 3/24.331
	45.00	2x25.98+1x12.99	400/3/50	33.7	60.3	3	1307	4800	4250	930	1170	755	8.58	DDLI 4/24.294
	63.00	3x25.98+1x12.99	400/3/50	33.7	60.3	3	1307	4800	4250	930	1170	874	8.58	DDLI 4/24.393
	63.00	3x25.98+1x12.99	400/3/50	33.7	60.3	3	1307	4800	4250	930	1170	933	8.58	DDLI 4/24.442

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295



Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Pressão Estática Static Pressure Pa	Rotação Revolution rpm	Potência Power W	Corrente Current A	Alimentação MPS V / F / Hz	
BSUIT 12.125 M	38.27	23.18	125.20	71.50	2	600	23000	33	1300	4000	7.10	400/3/50	
BSUIT 12.125 L	38.27	23.18	125.20	71.50	2	700	23000	128	1300	5600	9.92	400/3/50	
BSUIT 12.125 XL	38.27	23.18	125.20	71.50	1	800	23000	233	1300	6300	11.50	400/3/50	
BSUIT 12.167 M	47.26	28.63	167.00	95.30	2	600	23000	33	1300	4000	7.10	400/3/50	
BSUIT 12.167 L	47.26	28.63	167.00	95.30	2	700	23000	128	1300	5600	9.92	400/3/50	
BSUIT 12.167 XL	47.26	28.63	167.00	95.30	1	800	23000	233	1300	6300	11.50	400/3/50	
BSUIT 12.187 M	54.83	33.22	187.80	107.20	3	600	34500	20	1300	6000	10.65	400/3/50	
BSUIT 12.187 L	54.83	33.22	187.80	107.20	3	700	34500	95	1300	8400	14.88	400/3/50	
BSUIT 12.187 XL	54.83	33.22	187.80	107.20	2	800	34500	155	1300	9600	19.44	400/3/50	
BSUIT 12.250 M	67.75	41.04	250.50	143.00	3	600	34500	20	1300	6000	10.65	400/3/50	
BSUIT 12.250 L	67.75	41.04	250.50	143.00	3	700	34500	95	1300	8400	14.88	400/3/50	
BSUIT 12.250 XL	67.75	41.04	250.50	143.00	2	800	34500	155	1300	9600	19.44	400/3/50	
BSUIT 12.281 M	94.46	57.22	281.80	160.90	3	700	51000	50	1300	11100	20.19	400/3/50	
BSUIT 12.281 L	94.46	57.22	281.80	160.90	2	800	51000	130	1300	12600	23.00	400/3/50	
BSUIT 12.281 XL	94.46	57.22	281.80	160.90	3	800	51000	140	1300	14400	29.16	400/3/50	

Modelo Type	Preço Price EUR	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
BSUIT 12.125 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.125 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.125 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.167 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.167 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.167 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.187 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.187 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.187 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.250 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.250 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.250 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.281 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.281 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.281 XL	S/P.	S/P.	S/P.	S/P.	S/P.



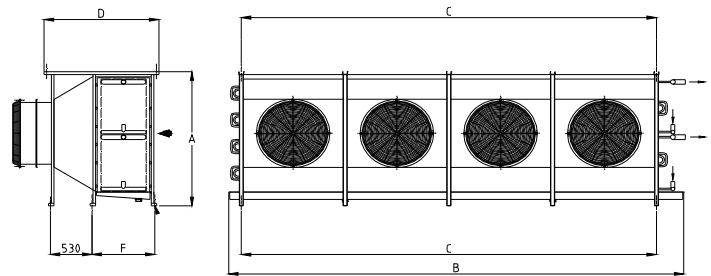
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	F	Kg	m ³	
	16.80	1x24.2	400/3/50	22.0	48.3	2	1300	2700	2135	1400	742	624	7.45	BSUIT 12.125 M
	16.80	1x24.2	400/3/50	22.0	48.3	2	1300	2700	2135	1400	742	638	7.45	BSUIT 12.125 L
	16.80	1x24.2	400/3/50	22.0	48.3	2	1300	2700	2135	1400	742	628	7.45	BSUIT 12.125 XL
	21.00	1x18.18+1x12.12	400/3/50	26.9	48.3	2	1300	2700	2135	1400	742	682	7.45	BSUIT 12.167 M
	21.00	1x18.18+1x12.12	400/3/50	26.9	48.3	2	1300	2700	2135	1400	742	696	7.45	BSUIT 12.167 L
	21.00	1x18.18+1x12.12	400/3/50	26.9	48.3	2	1300	2700	2135	1400	742	686	7.45	BSUIT 12.167 XL
	25.90	2x18.71	400/3/50	26.9	60.3	2½	1300	3750	3185	1400	742	908	10.24	BSUIT 12.187 M
	25.90	2x18.71	400/3/50	26.9	60.3	2½	1300	3750	3185	1400	742	929	10.24	BSUIT 12.187 L
	25.90	2x18.71	400/3/50	26.9	60.3	2½	1300	3750	3185	1400	742	918	10.24	BSUIT 12.187 XL
	32.40	1x28.06+1x18.71	400/3/50	26.9	60.3	2½	1300	3750	3185	1400	742	992	10.24	BSUIT 12.250 M
	32.40	1x28.06+1x18.71	400/3/50	26.9	60.3	2½	1300	3750	3185	1400	742	1013	10.24	BSUIT 12.250 L
	32.40	1x28.06+1x18.71	400/3/50	26.9	60.3	2½	1300	3750	3185	1400	742	1002	10.24	BSUIT 12.250 XL
	32.40	1x28.06+1x18.71	400/3/50	33.7	76.1	2½	1300	3750	3185	1400	742	1065	10.24	BSUIT 12.281 M
	32.40	1x28.06+1x18.71	400/3/50	33.7	76.1	2½	1300	3750	3185	1400	742	1071	10.24	BSUIT 12.281 L
	32.40	1x28.06+1x18.71	400/3/50	33.7	76.1	2½	1300	3750	3185	1400	742	1092	10.24	BSUIT 12.281 XL

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295
	-40	0.743	0.671	0.592	0.521	0.445	0.371	0.296



Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
	kW	kW			Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Pressão Estática Static Pressure Pa	Rotação Revolution rpm	Potência Power W	Corrente Current A	Alimentação MPS V / F / Hz	
BSUIT 12.313 M	104.29	63.18	313.10	178.70	3	800	64000	42	1300	14400	29.16	400/3/50	
BSUIT 12.313 L	104.29	63.18	313.10	178.70	4	700	64000	107	1300	14800	26.92	400/3/50	
BSUIT 12.313 XL	104.29	63.18	313.10	178.70	3	800	64000	237	1300	18900	34.50	400/3/50	
BSUIT 12.417 M	129.31	78.34	417.50	238.30	3	800	64000	42	1300	14400	29.16	400/3/50	
BSUIT 12.417 L	129.31	78.34	417.50	238.30	4	700	64000	107	1300	14800	26.92	400/3/50	
BSUIT 12.417 XL	129.31	78.34	417.50	238.30	3	800	64000	237	1300	18900	34.50	400/3/50	
BSUIT 12.469 M	137.12	83.07	469.50	268.10	4	700	81000	20	1300	11100	20.19	400/3/50	
BSUIT 12.469 L	137.12	83.07	469.50	268.10	4	800	81000	90	1300	19200	38.88	400/3/50	
BSUIT 12.469 XL	137.12	83.07	469.50	268.10	3	800	81000	130	1300	18900	34.50	400/3/50	
BSUIT 12.625 M	168.94	102.34	625.90	357.50	4	700	81000	20	1300	14800	26.92	400/3/50	
BSUIT 12.625 L	168.94	102.34	625.90	357.50	4	800	81000	90	1300	19200	38.88	400/3/50	
BSUIT 12.625 XL	168.94	102.34	625.90	357.50	3	800	81000	130	1300	18900	34.50	400/3/50	
BSUIT 12.704 M	220.60	133.64	704.20	402.20	5	800	108000	56	1300	24000	48.60	400/3/50	
BSUIT 12.704 L	220.60	133.64	704.20	402.20	4	800	108000	126	1300	25200	46.00	400/3/50	
BSUIT 12.704 XL	220.60	133.64	704.20	402.20	5	800	108000	256	1300	31500	57.50	400/3/50	

Modelo Type	Preço Price	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
	EUR	EUR			
BSUIT 12.313 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.313 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.313 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.417 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.417 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.417 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.469 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.469 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.469 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.625 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.625 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.625 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.704 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.704 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 12.704 XL	S/P.	S/P.	S/P.	S/P.	S/P.



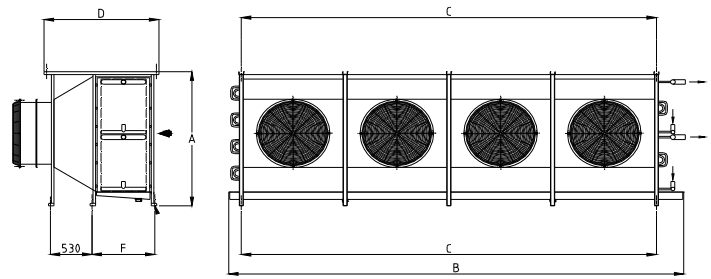
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	F	Kg	m ³	
	45.00	2x25.98+1x12.99	400/3/50	33.7	76.1	3	1570	4800	4235	1400	742	1321	15.55	BSUIT 12.313 M
	45.00	2x25.98+1x12.99	400/3/50	33.7	76.1	3	1570	4800	4235	1400	742	1332	15.55	BSUIT 12.313 L
	45.00	2x25.98+1x12.99	400/3/50	33.7	76.1	3	1570	4800	4235	1400	742	1360	15.55	BSUIT 12.313 XL
	54.00	3x25.98	400/3/50	33.7	76.1	3	1570	4800	4235	1400	742	1458	15.55	BSUIT 12.417 M
	54.00	3x25.98	400/3/50	33.7	76.1	3	1570	4800	4235	1400	742	1469	15.55	BSUIT 12.417 L
	54.00	3x25.98	400/3/50	33.7	76.1	3	1570	4800	4235	1400	742	1497	15.55	BSUIT 12.417 XL
	54.00	3x25.98	400/3/50	33.7	2 x 60.3	2x2½	1840	5850	5285	1400	742	1820	21.93	BSUIT 12.469 M
	54.00	3x25.98	400/3/50	33.7	2 x 60.3	2x2½	1840	5850	5285	1400	742	1856	21.93	BSUIT 12.469 L
	54.00	3x25.98	400/3/50	33.7	2 x 60.3	2x2½	1840	5850	5285	1400	742	1848	21.93	BSUIT 12.469 XL
	63.00	3x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	1840	5850	5285	1400	742	2024	21.93	BSUIT 12.625 M
	63.00	3x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	1840	5850	5285	1400	742	2060	21.93	BSUIT 12.625 L
	63.00	3x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	1840	5850	5285	1400	742	2052	21.93	BSUIT 12.625 XL
	63.00	3x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x2½	1840	5850	5285	1400	742	2229	21.93	BSUIT 12.704 M
	63.00	3x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x2½	1840	5850	5285	1400	742	2234	21.93	BSUIT 12.704 L
	63.00	3x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x2½	1840	5850	5285	1400	742	2294	21.93	BSUIT 12.704 XL

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295
	-40	0.743	0.671	0.592	0.521	0.445	0.371	0.296



Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Pressão Estática Static Pressure Pa	Rotação Revolution rpm	Potência Power W	Corrente Current A	Alimentação MPS V / F / Hz	
BSUIT 16.81 M	26.20	15.87	81.28	59.60	2	600	23000	33	1300	4000	7.10	400/3/50	
BSUIT 16.81 L	26.20	15.87	81.28	59.60	1	700	23000	128	1300	2800	4.96	400/3/50	
BSUIT 16.81 XL	26.20	15.87	81.28	59.60	1	800	23000	233	1300	6300	11.50	400/3/50	
BSUIT 16.162 M	44.89	27.19	162.60	119.20	2	600	23000	33	1300	4000	7.10	400/3/50	
BSUIT 16.162 L	44.89	27.19	162.60	119.20	2	700	23000	128	1300	5600	9.92	400/3/50	
BSUIT 16.162 XL	44.89	27.19	162.60	119.20	1	800	23000	233	1300	6300	11.50	400/3/50	
BSUIT 16.203 M	63.96	38.75	203.20	149.00	1	800	34000	20	1300	6300	11.50	400/3/50	
BSUIT 16.203 L	63.96	38.75	203.20	149.00	2	700	34000	88	1300	7400	13.46	400/3/50	
BSUIT 16.203 XL	63.96	38.75	203.20	149.00	2	800	34000	178	1300	9600	19.44	400/3/50	
BSUIT 16.243 M	64.16	38.87	243.80	178.70	3	600	34500	20	1300	6000	10.65	400/3/50	
BSUIT 16.243 L	64.16	38.87	243.80	178.70	3	700	34500	95	1300	8400	14.88	400/3/50	
BSUIT 16.243 XL	64.16	38.87	243.80	178.70	2	800	34500	155	1300	9600	19.44	400/3/50	
BSUIT 16.304 M	92.93	56.30	304.90	223.40	3	700	51000	50	1300	11100	20.19	400/3/50	
BSUIT 16.304 L	92.93	56.30	304.90	223.40	2	800	51000	130	1300	12600	23.00	400/3/50	
BSUIT 16.304 XL	92.93	56.30	304.90	223.40	3	800	51000	140	1300	14400	29.16	400/3/50	

Modelo Type	Preço Price EUR	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
BSUIT 16.81 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.81 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.81 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.162 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.162 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.162 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.203 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.203 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.203 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.243 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.243 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.243 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.304 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.304 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.304 XL	S/P.	S/P.	S/P.	S/P.	S/P.



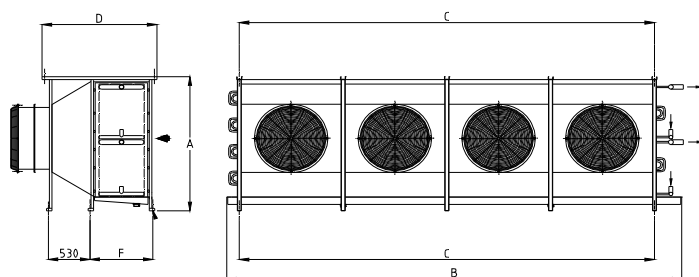
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	F	Kg	m³	
	16.80	1x24.2	400/3/50	22.0	48.3	2	1300	2700	2135	1460	802	575	7.45	BSUIT 16.81 M
	16.80	1x24.2	400/3/50	22.0	48.3	2	1300	2700	2135	1460	802	589	7.45	BSUIT 16.81 L
	16.80	1x24.2	400/3/50	22.0	48.3	2	1300	2700	2135	1460	802	579	7.45	BSUIT 16.81 XL
	25.20	2x18.18	400/3/50	26.9	48.3	2	1300	2700	2135	1460	802	708	7.45	BSUIT 16.162 M
	25.20	2x18.18	400/3/50	26.9	48.3	2	1300	2700	2135	1460	802	722	7.45	BSUIT 16.162 L
	25.20	2x18.18	400/3/50	26.9	48.3	2	1300	2700	2135	1460	802	712	7.45	BSUIT 16.162 XL
	29.40	1x24.24+18.18	400/3/50	26.9	60.3	2	1570	2700	2135	1460	802	805	8.88	BSUIT 16.203 M
	29.40	1x24.24+18.18	400/3/50	26.9	60.3	2	1570	2700	2135	1460	802	821	8.88	BSUIT 16.203 L
	29.40	1x24.24+18.18	400/3/50	26.9	60.3	2	1570	2700	2135	1460	802	839	8.88	BSUIT 16.203 XL
	38.90	3x18.71	400/3/50	26.9	60.3	2½	1300	3750	3185	1460	802	1040	10.24	BSUIT 16.243 M
	38.90	3x18.71	400/3/50	26.9	60.3	2½	1300	3750	3185	1460	802	1061	10.24	BSUIT 16.243 L
	38.90	3x18.71	400/3/50	26.9	60.3	2½	1300	3750	3185	1460	802	1050	10.24	BSUIT 16.243 XL
	45.40	2x18.71+1x28.06	400/3/50	33.7	76.1	2½	1570	3750	3185	1460	802	1193	12.22	BSUIT 16.304 M
	45.40	2x18.71+1x28.06	400/3/50	33.7	76.1	2½	1570	3750	3185	1460	802	1199	12.22	BSUIT 16.304 L
	45.40	2x18.71+1x28.06	400/3/50	33.7	76.1	2½	1570	3750	3185	1460	802	1220	12.22	BSUIT 16.304 XL

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295
	-40	0.743	0.671	0.592	0.521	0.445	0.371	0.296



Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans								
	kW	kW			Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Pressão Estática Static Pressure	Rotação Revolution	Potência Power	Corrente Current	Alimentação MPS	
BSUIT 16.406 M	123.23	74.65	406.50	297.90	3	800	64000	42	1300	14400	29.16	400/3/50	
BSUIT 16.406 L	123.23	74.65	406.50	297.90	4	700	64000	107	1300	14800	26.92	400/3/50	
BSUIT 16.406 XL	123.23	74.65	406.50	297.90	3	800	64000	237	1300	18900	34.50	400/3/50	
BSUIT 16.487 M	128.22	77.68	487.50	357.50	3	800	64000	42	1300	14400	29.16	400/3/50	
BSUIT 16.487 L	128.22	77.68	487.50	357.50	4	700	64000	107	1300	14800	26.92	400/3/50	
BSUIT 16.487 XL	128.22	77.68	487.50	357.50	3	800	64000	237	1300	18900	34.50	400/3/50	
BSUIT 16.650 M	165.20	100.08	650.00	476.70	4	700	81000	20	1300	14800	26.92	400/3/50	
BSUIT 16.650 L	165.20	100.08	650.00	476.70	4	800	81000	90	1300	19200	38.88	400/3/50	
BSUIT 16.650 XL	165.20	100.08	650.00	476.70	3	800	81000	130	1300	18900	34.50	400/3/50	
BSUIT 16.609 M	165.95	100.53	609.40	446.90	4	700	81000	20	1300	14800	26.92	400/3/50	
BSUIT 16.609 L	165.95	100.53	609.40	446.90	4	800	81000	90	1300	19200	38.88	400/3/50	
BSUIT 16.609 XL	165.95	100.53	609.40	446.90	3	800	81000	130	1300	18900	34.50	400/3/50	
BSUIT 16.812 M	221.30	134.06	812.80	595.80	5	800	108000	56	1300	24000	48.60	400/3/50	
BSUIT 16.812 L	221.30	134.06	812.80	595.80	4	800	108000	126	1300	25200	46.00	400/3/50	
BSUIT 16.812 XL	221.30	134.06	812.80	595.80	5	800	108000	256	1300	31500	57.50	400/3/50	

Modelo Type	Preço Price	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
	EUR	EUR			
BSUIT 16.406 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.406 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.406 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.487 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.487 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.487 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.650 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.650 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.650 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.609 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.609 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.609 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.812 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.812 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIT 16.812 XL	S/P.	S/P.	S/P.	S/P.	S/P.



	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	F	Kg	m ³	
	63.00	3x25.98+1x12.99	400/3/50	33.7	76.1	2x2½	1570	4800	4235	1460	802	1474	15.55	BSUIT 16.406 M
	63.00	3x25.98+1x12.99	400/3/50	33.7	76.1	2x2½	1570	4800	4235	1460	802	1532	15.55	BSUIT 16.406 L
	63.00	3x25.98+1x12.99	400/3/50	33.7	76.1	2x2½	1570	4800	4235	1460	802	1560	15.55	BSUIT 16.406 XL
	72.00	4x25.98	400/3/50	33.7	2 x 60.3	2x2½	1840	4800	4235	1460	802	1757	18.06	BSUIT 16.487 M
	72.00	4x25.98	400/3/50	33.7	2 x 60.3	2x2½	1840	4800	4235	1460	802	1768	18.06	BSUIT 16.487 L
	72.00	4x25.98	400/3/50	33.7	2 x 60.3	2x2½	1840	4800	4235	1460	802	1796	18.06	BSUIT 16.487 XL
	99.00	5x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	2370	4800	4235	1460	802	2133	23.00	BSUIT 16.650 M
	99.00	5x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	2370	4800	4235	1460	802	2169	23.00	BSUIT 16.650 L
	99.00	5x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	2370	4800	4235	1460	802	2161	23.00	BSUIT 16.650 XL
	72.00	4x25.98	400/3/50	33.7	2 x 76.1	2x3	1840	5850	5285	1460	802	2067	21.93	BSUIT 16.609 M
	72.00	4x25.98	400/3/50	33.7	2 x 76.1	2x3	1840	5850	5285	1460	802	2097	21.93	BSUIT 16.609 L
	72.00	4x25.98	400/3/50	33.7	2 x 76.1	2x3	1840	5850	5285	1460	802	2095	21.93	BSUIT 16.609 XL
	99.00	5x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x3	2370	5850	5285	1460	802	2678	27.92	BSUIT 16.812 M
	99.00	5x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x3	2370	5850	5285	1460	802	2683	27.92	BSUIT 16.812 L
	99.00	5x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x3	2370	5850	5285	1460	802	2743	27.92	BSUIT 16.812 XL

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295
	-40	0.743	0.671	0.592	0.521	0.445	0.371	0.296



CBIB

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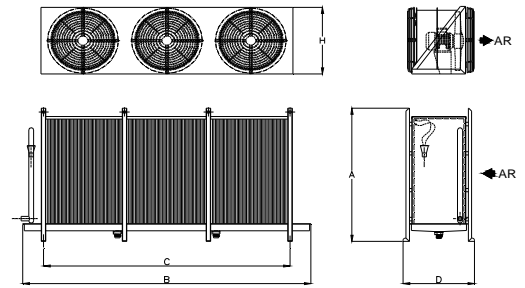
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BSUIT

BSUIS

Modelo Type	Capacidade Capacity (Tse=+4°C / DT1=10°C)	Capacidade Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Pressão Estática Static Pressure Pa	Rotação Revolution rpm	Potência Power W	Corrente Current A	Alimentação MPS V / F / Hz	
BSUIS 12.125 M	38.27	23.18	125.20	71.50	2	600	23000	33	1300	4000	7.10	400/3/50	
BSUIS 12.125 L	38.27	23.18	125.20	71.50	2	700	23000	128	1300	5600	9.92	400/3/50	
BSUIS 12.125 XL	38.27	23.18	125.20	71.50	1	800	23000	233	1300	6300	11.50	400/3/50	
BSUIS 12.167 M	47.26	28.63	167.00	95.30	2	600	23000	33	1300	4000	7.10	400/3/50	
BSUIS 12.167 L	47.26	28.63	167.00	95.30	2	700	23000	128	1300	5600	9.92	400/3/50	
BSUIS 12.167 XL	47.26	28.63	167.00	95.30	1	800	23000	233	1300	6300	11.50	400/3/50	
BSUIS 12.187 M	54.83	33.22	187.80	107.20	3	600	34500	20	1300	6000	10.65	400/3/50	
BSUIS 12.187 L	54.83	33.22	187.80	107.20	3	700	34500	95	1300	8400	14.88	400/3/50	
BSUIS 12.187 XL	54.83	33.22	187.80	107.20	2	800	34500	155	1300	9600	19.44	400/3/50	
BSUIS 12.250 M	67.75	41.04	250.50	143.00	3	600	34500	20	1300	6000	10.65	400/3/50	
BSUIS 12.250 L	67.75	41.04	250.50	143.00	3	700	34500	95	1300	8400	14.88	400/3/50	
BSUIS 12.250 XL	67.75	41.04	250.50	143.00	2	800	34500	155	1300	9600	19.44	400/3/50	
BSUIS 12.281 M	94.46	57.22	281.80	160.90	3	700	51000	50	1300	11100	20.19	400/3/50	
BSUIS 12.281 L	94.46	57.22	281.80	160.90	2	800	51000	130	1300	12600	23.00	400/3/50	
BSUIS 12.281 XL	94.46	57.22	281.80	160.90	3	800	51000	140	1300	14400	29.16	400/3/50	

Modelo Type	Preço Price EUR	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
BSUIS 12.125 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.125 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.125 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.167 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.167 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.167 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.187 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.187 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.187 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.250 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.250 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.250 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.281 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.281 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.281 XL	S/P.	S/P.	S/P.	S/P.	S/P.



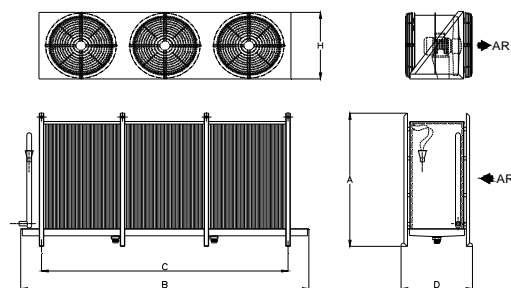
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	H	Kg	m ³	
	16.80	1x24.2	400/3/50	22.0	48.3	2	1450	2700	2136	787	725	412	1.46	BSUIS 12.125 M
	16.80	1x24.2	400/3/50	22.0	48.3	2	1450	2700	2136	787	725	432	1.64	BSUIS 12.125 L
	16.80	1x24.2	400/3/50	22.0	48.3	2	1450	2700	2136	787	725	403	1.82	BSUIS 12.125 XL
	21.00	1x18.18+1x12.12	400/3/50	26.9	48.3	2	1450	2700	2136	787	725	470	1.46	BSUIS 12.167 M
	21.00	1x18.18+1x12.12	400/3/50	26.9	48.3	2	1450	2700	2136	787	725	490	1.64	BSUIS 12.167 L
	21.00	1x18.18+1x12.12	400/3/50	26.9	48.3	2	1450	2700	2136	787	725	461	1.82	BSUIS 12.167 XL
	25.90	2x18.71	400/3/50	26.9	60.3	2½	1450	3750	3186	787	725	620	2.14	BSUIS 12.187 M
	25.90	2x18.71	400/3/50	26.9	60.3	2½	1450	3750	3186	787	725	650	2.40	BSUIS 12.187 L
	25.90	2x18.71	400/3/50	26.9	60.3	2½	1450	3750	3186	787	725	623	2.66	BSUIS 12.187 XL
	32.40	1x28.06+1x18.71	400/3/50	26.9	60.3	2½	1450	3750	3186	787	725	704	2.14	BSUIS 12.250 M
	32.40	1x28.06+1x18.71	400/3/50	26.9	60.3	2½	1450	3750	3186	787	725	734	2.40	BSUIS 12.250 L
	32.40	1x28.06+1x18.71	400/3/50	26.9	60.3	2½	1450	3750	3186	787	725	707	2.66	BSUIS 12.250 XL
	32.40	1x28.06+1x18.71	400/3/50	33.7	76.1	2½	1450	3750	3186	787	725	786	2.40	BSUIS 12.281 M
	32.40	1x28.06+1x18.71	400/3/50	33.7	76.1	2½	1450	3750	3186	787	725	776	2.66	BSUIS 12.281 L
	32.40	1x28.06+1x18.71	400/3/50	33.7	76.1	2½	1450	3750	3186	787	725	822	2.66	BSUIS 12.281 XL

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295
	-40	0.743	0.671	0.592	0.521	0.445	0.371	0.296



Modelo Type	Capacidade Capacity (Tse=+4°C / DT1=10°C)	Capacidade Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface	Volume interno Internal Volume	Ventiladores Fans							Alimentação MPS
	kW	kW	m ²	dm ³	Nº. Nr.	Diâmetro Diameter	Caudal de Ar Air Flow	Pressão Estática Static Pressure	Rotação Revolution	Potência Power	Corrente Current	
BSUIS 12.313 M	104.29	63.18	313.10	178.70	3	800	64000	42	1300	14400	29.16	400/3/50
BSUIS 12.313 L	104.29	63.18	313.10	178.70	4	700	64000	107	1300	14800	26.92	400/3/50
BSUIS 12.313 XL	104.29	63.18	313.10	178.70	3	800	64000	237	1300	18900	34.50	400/3/50
BSUIS 12.417 M	129.31	78.34	417.50	238.30	3	800	64000	42	1300	14400	29.16	400/3/50
BSUIS 12.417 L	129.31	78.34	417.50	238.30	4	700	64000	107	1300	14800	26.92	400/3/50
BSUIS 12.417 XL	129.31	78.34	417.50	238.30	3	800	64000	237	1300	18900	34.50	400/3/50
BSUIS 12.469 M	137.12	83.07	469.50	268.10	4	700	81000	20	1300	11100	20.19	400/3/50
BSUIS 12.469 L	137.12	83.07	469.50	268.10	4	800	81000	90	1300	19200	38.88	400/3/50
BSUIS 12.469 XL	137.12	83.07	469.50	268.10	3	800	81000	130	1300	18900	34.50	400/3/50
BSUIS 12.625 M	168.94	102.34	625.90	357.50	4	700	81000	20	1300	14800	26.92	400/3/50
BSUIS 12.625 L	168.94	102.34	625.90	357.50	4	800	81000	90	1300	19200	38.88	400/3/50
BSUIS 12.625 XL	168.94	102.34	625.90	357.50	3	800	81000	130	1300	18900	34.50	400/3/50
BSUIS 12.704 M	220.60	133.64	704.20	402.20	5	800	108000	56	1300	24000	48.60	400/3/50
BSUIS 12.704 L	220.60	133.64	704.20	402.20	4	800	108000	126	1300	25200	46.00	400/3/50
BSUIS 12.704 XL	220.60	133.64	704.20	402.20	5	800	108000	256	1300	31500	57.50	400/3/50

Modelo Type	Preço Price	Opções Options			
	EUR	Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
BSUIS 12.313 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.313 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.313 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.417 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.417 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.417 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.469 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.469 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.469 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.625 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.625 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.625 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.704 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.704 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 12.704 XL	S/P.	S/P.	S/P.	S/P.	S/P.



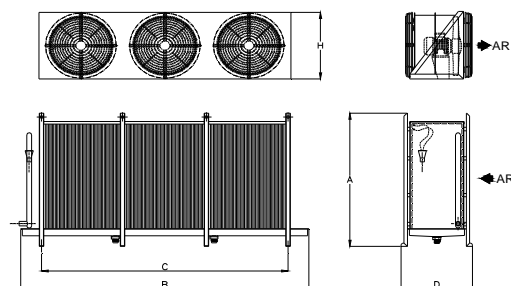
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	H	Kg	m ³	
	45.00	2x25.98+1x12.99	400/3/50	33.7	76.1	3	1710	4800	4236	787	925	972	3.50	BSUIS 12.313 M
	45.00	2x25.98+1x12.99	400/3/50	33.7	76.1	3	1710	4800	4236	787	925	996	3.15	BSUIS 12.313 L
	45.00	2x25.98+1x12.99	400/3/50	33.7	76.1	3	1710	4800	4236	787	925	1011	3.50	BSUIS 12.313 XL
	54.00	3x25.98	400/3/50	33.7	76.1	3	1710	4800	4236	787	925	1109	3.50	BSUIS 12.417 M
	54.00	3x25.98	400/3/50	33.7	76.1	3	1710	4800	4236	787	925	1133	3.15	BSUIS 12.417 L
	54.00	3x25.98	400/3/50	33.7	76.1	3	1710	4800	4236	787	925	1148	3.50	BSUIS 12.417 XL
	54.00	3x25.98	400/3/50	33.7	2 x 60.3	2x2½	1970	5850	5286	787	825	1334	3.91	BSUIS 12.469 M
	54.00	3x25.98	400/3/50	33.7	2 x 60.3	2x2½	1970	5850	5286	787	825	1382	4.33	BSUIS 12.469 L
	54.00	3x25.98	400/3/50	33.7	2 x 60.3	2x2½	1970	5850	5286	787	825	1349	4.33	BSUIS 12.469 XL
	63.00	3x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	1970	5850	5286	787	825	1538	3.91	BSUIS 12.625 M
	63.00	3x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	1970	5850	5286	787	825	1586	4.33	BSUIS 12.625 L
	63.00	3x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	1970	5850	5286	787	825	1553	4.33	BSUIS 12.625 XL
	63.00	3x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x2½	1970	5850	5286	787	925	1772	4.33	BSUIS 12.704 M
	63.00	3x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x2½	1970	5850	5286	787	925	1752	4.33	BSUIS 12.704 L
	63.00	3x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x2½	1970	5850	5286	787	925	1837	4.33	BSUIS 12.704 XL

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	10	1.023	0.921	0.818	0.716	0.614	0.512	0.410
	6	1.008	0.907	0.806	0.705	0.604	0.503	0.402
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295
	-40	0.743	0.671	0.592	0.521	0.445	0.371	0.296



Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
					Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Pressão Estática Static Pressure Pa	Rotação Revolution rpm	Potência Power W	Corrente Current A	Alimentação MPS V / F / Hz	
BSUIS 16.81 M	26.20	15.87	81.28	59.60	2	600	23000	33	1300	4000	7.10	400/3/50	
BSUIS 16.81 L	26.20	15.87	81.28	59.60	1	700	23000	128	1300	2800	4.96	400/3/50	
BSUIS 16.81 XL	26.20	15.87	81.28	59.60	1	800	23000	233	1300	6300	11.50	400/3/50	
BSUIS 16.162 M	44.89	27.19	162.60	119.20	2	600	23000	33	1300	4000	7.10	400/3/50	
BSUIS 16.162 L	44.89	27.19	162.60	119.20	2	700	23000	128	1300	5600	9.92	400/3/50	
BSUIS 16.162 XL	44.89	27.19	162.60	119.20	1	800	23000	233	1300	6300	11.50	400/3/50	
BSUIS 16.203 M	63.96	38.75	203.20	149.00	1	800	34000	20	1300	6300	11.50	400/3/50	
BSUIS 16.203 L	63.96	38.75	203.20	149.00	2	700	34000	88	1300	7400	13.46	400/3/50	
BSUIS 16.203 XL	63.96	38.75	203.20	149.00	2	800	34000	178	1300	9600	19.44	400/3/50	
BSUIS 16.243 M	64.16	38.87	243.80	178.70	3	600	34500	20	1300	6000	10.65	400/3/50	
BSUIS 16.243 L	64.16	38.87	243.80	178.70	3	700	34500	95	1300	8400	14.88	400/3/50	
BSUIS 16.243 XL	64.16	38.87	243.80	178.70	2	800	34500	155	1300	9600	19.44	400/3/50	
BSUIS 16.304 M	92.93	56.30	304.90	223.40	3	700	51000	50	1300	11100	20.19	400/3/50	
BSUIS 16.304 L	92.93	56.30	304.90	223.40	2	800	51000	130	1300	12600	23.00	400/3/50	
BSUIS 16.304 XL	92.93	56.30	304.90	223.40	3	800	51000	140	1300	14400	29.16	400/3/50	

Modelo Type	Preço Price EUR	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
BSUIS 16.81 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.81 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.81 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.162 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.162 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.162 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.203 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.203 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.203 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.243 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.243 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.243 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.304 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.304 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.304 XL	S/P.	S/P.	S/P.	S/P.	S/P.



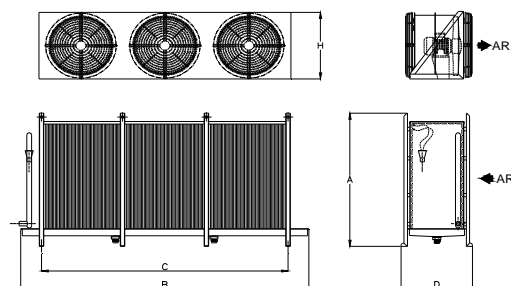
	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	H	Kg	m ³	
	16.80	1x24.2	400/3/50	22.0	48.3	2	1450	2700	2136	847	725	373	1.57	BSUIS 16.81 M
	16.80	1x24.2	400/3/50	22.0	48.3	2	1450	2700	2136	847	725	393	1.77	BSUIS 16.81 L
	16.80	1x24.2	400/3/50	22.0	48.3	2	1450	2700	2136	847	725	364	1.96	BSUIS 16.81 XL
	25.20	2x18.18	400/3/50	26.9	48.3	2	1450	2700	2136	847	725	506	1.57	BSUIS 16.162 M
	25.20	2x18.18	400/3/50	26.9	48.3	2	1450	2700	2136	847	725	526	1.77	BSUIS 16.162 L
	25.20	2x18.18	400/3/50	26.9	48.3	2	1450	2700	2136	847	725	497	1.96	BSUIS 16.162 XL
	29.40	1x24.24+18.18	400/3/50	26.9	60.3	2	1450	2700	2136	847	925	574	1.96	BSUIS 16.203 M
	29.40	1x24.24+18.18	400/3/50	26.9	60.3	2	1450	2700	2136	847	925	609	1.77	BSUIS 16.203 L
	29.40	1x24.24+18.18	400/3/50	26.9	60.3	2	1450	2700	2136	847	925	633	1.96	BSUIS 16.203 XL
	38.90	3x18.71	400/3/50	26.9	60.3	2x2½	1450	3750	3186	847	725	753	2.30	BSUIS 16.243 M
	38.90	3x18.71	400/3/50	26.9	60.3	2x2½	1450	3750	3186	847	725	783	2.58	BSUIS 16.243 L
	38.90	3x18.71	400/3/50	26.9	60.3	2x2½	1450	3750	3186	847	725	756	2.86	BSUIS 16.243 XL
	45.40	2x18.71+1x28.06	400/3/50	33.7	76.1	2x2½	1710	3750	3186	847	725	907	2.58	BSUIS 16.304 M
	45.40	2x18.71+1x28.06	400/3/50	33.7	76.1	2x2½	1710	3750	3186	847	725	897	2.86	BSUIS 16.304 L
	45.40	2x18.71+1x28.06	400/3/50	33.7	76.1	2x2½	1710	3750	3186	847	725	943	2.86	BSUIS 16.304 XL

		Factor de correcção Correction Factor						
		DT1 [°C]						
		10	9	8	7	6	5	4
Tse [°C]	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295
	-40	0.743	0.671	0.592	0.521	0.445	0.371	0.296



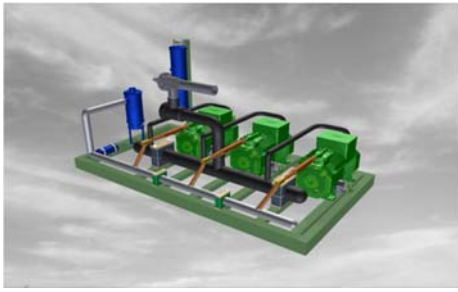
Modelo Type	Capacidade (Tse=+4°C / DT1=10°C) Capacity (Tse=+4°C / DT1=10°C)	Capacidade (Tse=-18°C / DT1=7°C) Capacity (Tse=-18°C / DT1=7°C)	Superfície Surface m ²	Volume interno Internal Volume dm ³	Ventiladores Fans								
	kW	kW			Nº. Nr.	Diâmetro Diameter mm	Caudal de Ar Air Flow m ³ /h	Pressão Estática Static Pressure Pa	Rotação Revolution rpm	Potência Power W	Corrente Current A	Alimentação MPS V / F / Hz	
BSUIS 16.406 M	123.23	74.65	406.50	297.90	3	800	64000	42	1300	14400	29.16	400/3/50	
BSUIS 16.406 L	123.23	74.65	406.50	297.90	4	700	64000	107	1300	14800	26.92	400/3/50	
BSUIS 16.406 XL	123.23	74.65	406.50	297.90	3	800	64000	237	1300	18900	34.50	400/3/50	
BSUIS 16.487 M	128.22	77.68	487.50	357.50	3	800	64000	42	1300	14400	29.16	400/3/50	
BSUIS 16.487 L	128.22	77.68	487.50	357.50	4	700	64000	107	1300	14800	26.92	400/3/50	
BSUIS 16.487 XL	128.22	77.68	487.50	357.50	3	800	64000	237	1300	18900	34.50	400/3/50	
BSUIS 16.650 M	165.20	100.08	650.00	476.70	4	700	81000	20	1300	14800	26.92	400/3/50	
BSUIS 16.650 L	165.20	100.08	650.00	476.70	4	800	81000	90	1300	19200	38.88	400/3/50	
BSUIS 16.650 XL	165.20	100.08	650.00	476.70	3	800	81000	130	1300	18900	34.50	400/3/50	
BSUIS 16.609 M	165.95	100.53	609.40	446.90	4	700	81000	20	1300	14800	26.92	400/3/50	
BSUIS 16.609 L	165.95	100.53	609.40	446.90	4	800	81000	90	1300	19200	38.88	400/3/50	
BSUIS 16.609 XL	165.95	100.53	609.40	446.90	3	800	81000	130	1300	18900	34.50	400/3/50	
BSUIS 16.812 M	221.30	134.06	812.80	595.80	5	800	108000	56	1300	24000	48.60	400/3/50	
BSUIS 16.812 L	221.30	134.06	812.80	595.80	4	800	108000	126	1300	25200	46.00	400/3/50	
BSUIS 16.812 XL	221.30	134.06	812.80	595.80	5	800	108000	256	1300	31500	57.50	400/3/50	

Modelo Type	Preço Price EUR	Opções Options			
		Lacado branco White painted	Desc. resistências Electrical defrost	Desc. gás quente Hot gas defrost	Desc. água Water defrost
BSUIS 16.406 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.406 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.406 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.487 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.487 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.487 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.650 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.650 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.650 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.609 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.609 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.609 XL	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.812 M	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.812 L	S/P.	S/P.	S/P.	S/P.	S/P.
BSUIS 16.812 XL	S/P.	S/P.	S/P.	S/P.	S/P.

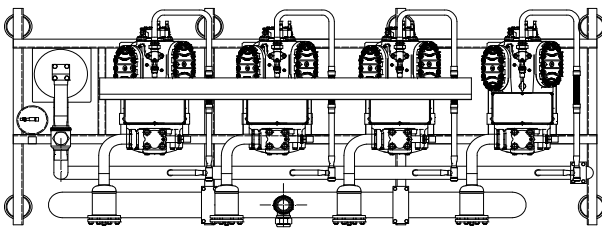
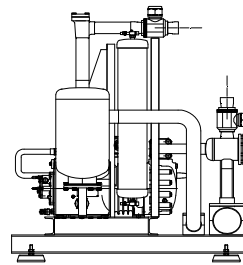
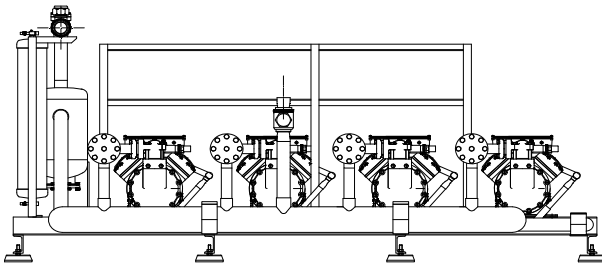


	Dados eléctricos resistências Heaters electrical data			Ligações Connections			Dimensões Dimensions					Peso em vazio Net weight	Volume embarque Shipment volume	Modelo Type
	Potência Power	Corrente Current	Alimentação MPS	Entrada Inlet	Saída Outlet	Esgoto Drain								
	kW	A	V / F / Hz	mm	mm	in	A	B	C	D	H	Kg	m³	
	63.00	3x25.98+1x12.99	400/3/50	33.7	76.1	2x2½	1710	4800	4236	847	925	1253	3.76	BSUIS 16.406 M
	63.00	3x25.98+1x12.99	400/3/50	33.7	76.1	2x2½	1710	4800	4236	847	925	1205	3.40	BSUIS 16.406 L
	63.00	3x25.98+1x12.99	400/3/50	33.7	76.1	2x2½	1710	4800	4236	847	925	1220	3.76	BSUIS 16.406 XL
	72.00	4x25.98	400/3/50	33.7	2 x 60.3	2x2½	1970	4800	4236	847	925	1350	3.76	BSUIS 16.487 M
	72.00	4x25.98	400/3/50	33.7	2 x 60.3	2x2½	1970	4800	4236	847	925	1374	3.40	BSUIS 16.487 L
	72.00	4x25.98	400/3/50	33.7	2 x 60.3	2x2½	1970	4800	4236	847	925	1389	3.76	BSUIS 16.487 XL
	99.00	5x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	2495	4800	5286	847	825	1665	3.40	BSUIS 16.650 M
	99.00	5x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	2495	4800	5286	847	825	1713	3.76	BSUIS 16.650 L
	99.00	5x25.98+1x12.99	400/3/50	33.7	2 x 76.1	2x2½	2495	4800	5286	847	825	1680	3.76	BSUIS 16.650 XL
	72.00	4x25.98	400/3/50	33.7	2 x 76.1	2x3	1970	5850	5286	847	825	1614	4.21	BSUIS 16.609 M
	72.00	4x25.98	400/3/50	33.7	2 x 76.1	2x3	1970	5850	5286	847	825	1662	4.67	BSUIS 16.609 L
	72.00	4x25.98	400/3/50	33.7	2 x 76.1	2x3	1970	5850	5286	847	825	1629	4.67	BSUIS 16.609 XL
	99.00	5x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x3	2495	5850	5286	847	925	2122	4.67	BSUIS 16.812 M
	99.00	5x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x3	2495	5850	5286	847	925	2102	4.67	BSUIS 16.812 L
	99.00	5x25.98+1x12.99	400/3/50	42.6	2 x 76.1	2x3	2495	5850	5286	847	925	2187	4.67	BSUIS 16.812 XL

		Factor de correcção Correction Factor						
		DT1 [°C]						
Tse [°C]		10	9	8	7	6	5	4
	4	1.000	0.900	0.800	0.700	0.600	0.500	0.400
	2	0.947	0.852	0.758	0.663	0.568	0.474	0.379
	0	0.871	0.784	0.697	0.610	0.523	0.436	0.348
	-2	0.856	0.770	0.685	0.599	0.514	0.428	0.342
	-10	0.826	0.743	0.661	0.578	0.496	0.413	0.330
	-12	0.818	0.736	0.654	0.573	0.491	0.409	0.327
	-14	0.811	0.730	0.649	0.568	0.487	0.406	0.324
	-18	0.795	0.716	0.636	0.557	0.477	0.398	0.318
	-20	0.788	0.709	0.630	0.552	0.473	0.394	0.315
	-25	0.758	0.682	0.606	0.531	0.455	0.379	0.303
	-34	0.751	0.677	0.599	0.525	0.445	0.370	0.295
	-40	0.743	0.671	0.592	0.521	0.445	0.371	0.296



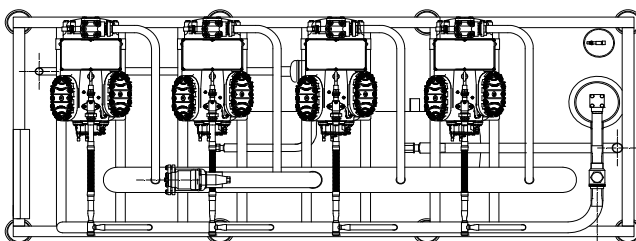
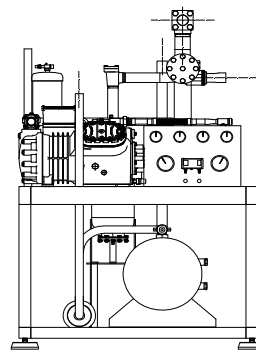
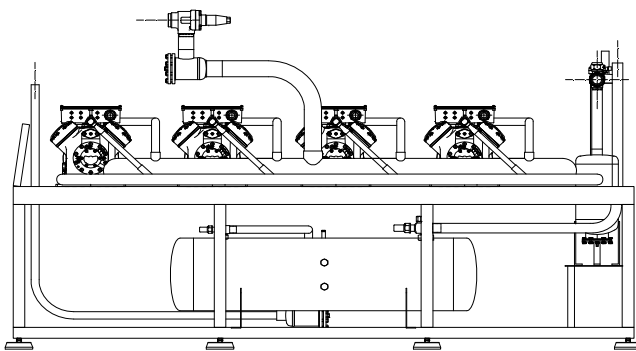
CENTRAIS TIPO 1 TYPE 1 RACKS



Sob pedido a Rack 1 pode ser igual à Rack 2, com depósito horizontal fornecido fora da central.

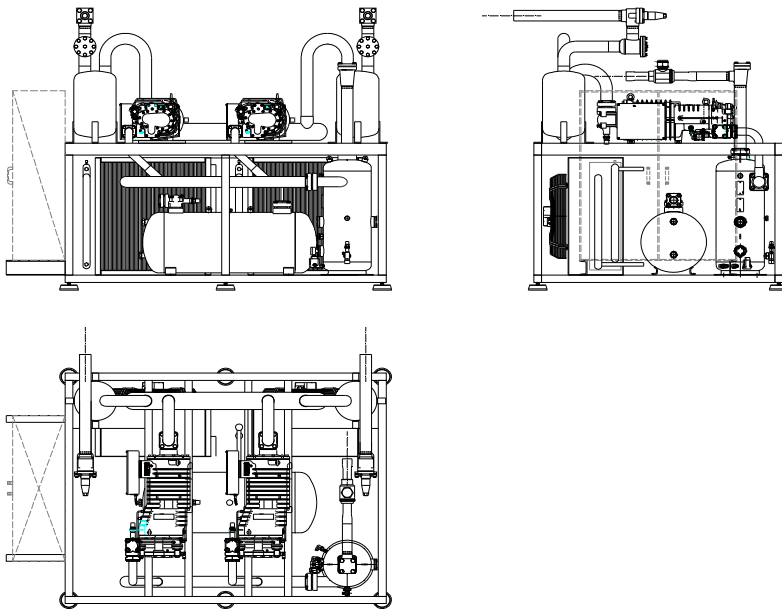
Under request, RACK 1's layout can be the same as RACK 2 with an horizontal receiver supplied outside the packs's structure.

CENTRAIS TIPO 2 TYPE 2 RACKS

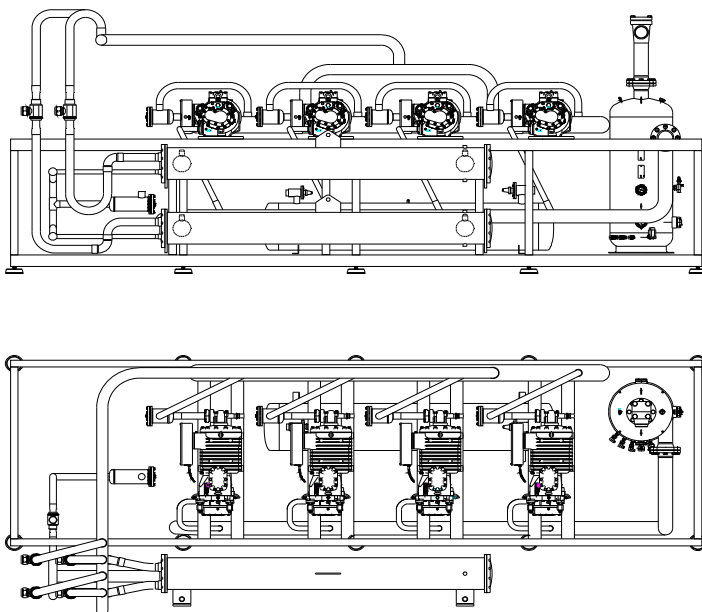


CENTRAIS PARAFUSO TIPO 3 TYPE 3 SCREW RACKS

Central de compressores de parafuso com arrefecedor de óleo a ar
Rack with screw compressors and air cooled oil cooler



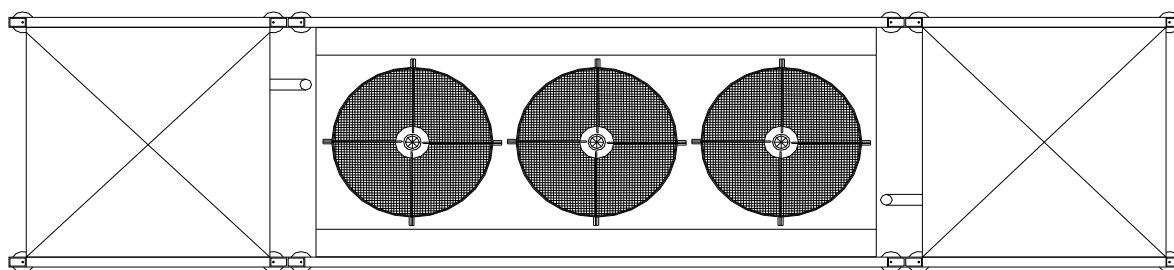
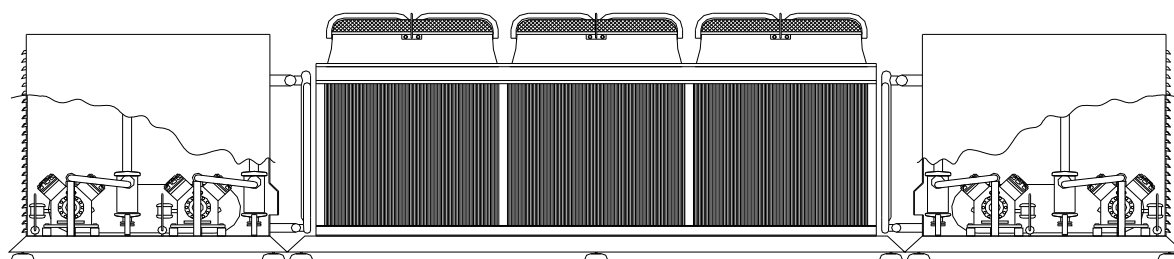
Central de compressores de parafuso com chiller
Rack with screw compressors and chiller





PACKS PACKS

PACK com uma central TN, uma central BT, capota e condensador VAC.
Low temperature PACK, Normal temperature PACK, weatherproof housing and VAC condenser.



Considerações Gerais

A Centauro há já vários anos que deu início ao fabrico de Centrais frigoríficas "sob medida ", de acordo com as especificações e/ou particularidades de cada cliente ou projecto.

Disponíveis em duas soluções técnicas de base- Rack 1 e Rack 2, as Centrais Centauro podem ser executadas com compressores alternativos, de parafuso ou scroll, usando R134a, R404A entre outros refrigerantes.

Existe uma " folha de especificações " que permite definir exaustivamente o nível de equipamento e/ou solução técnica de base pretendido pelo cliente Centauro, devidamente suportada por instruções técnicas de instalação, arranque e manutenção.

General Considerations

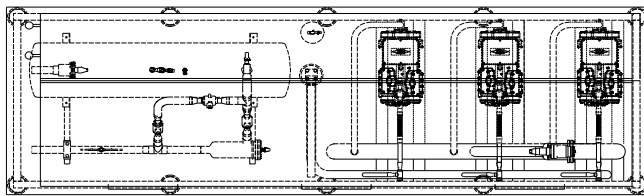
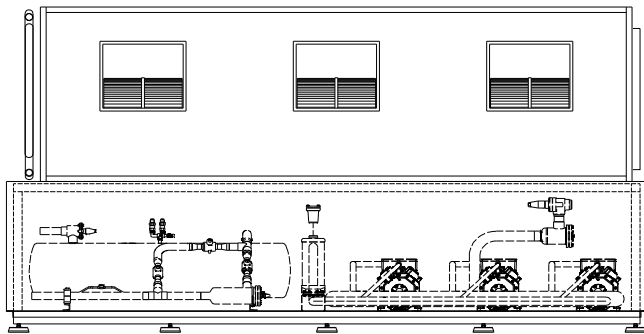
Centauro began building "taylor made" Refrigeration Packs according to the specifications and/or requests of it's customers or given project for many years to date.

Available in two type frames - Rack 1 and Rack 2, Centauro's racks can be produced with reciprocating, screw or scroll compressors using R134a, R404A amongst other refrigerants.

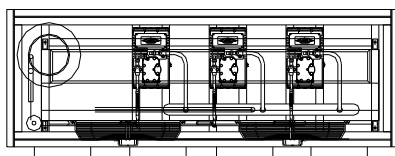
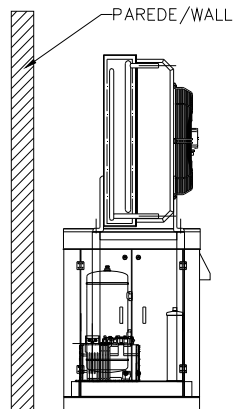
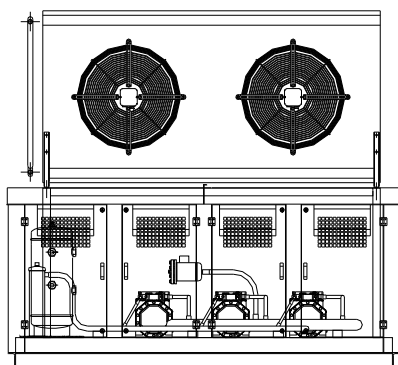
A "specification list" allows Centauro's clients to fully define the level of components and/or solutions needed, properly supported by instalation, start-up and maintenance information.

PACKS PACKS

PACK com central de compressores alternativos, condensadores centrífugos e capota anti vandalismo
 PACK with reciprocating compressors, centrifugal condensers and protective housing.



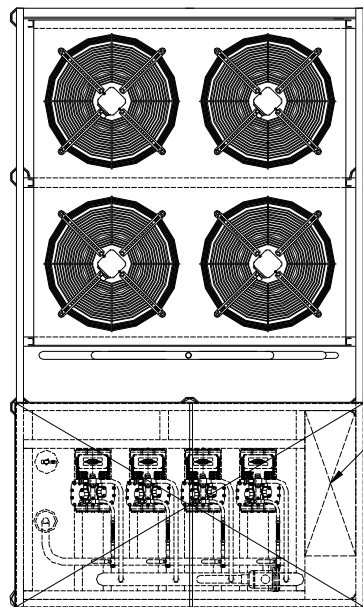
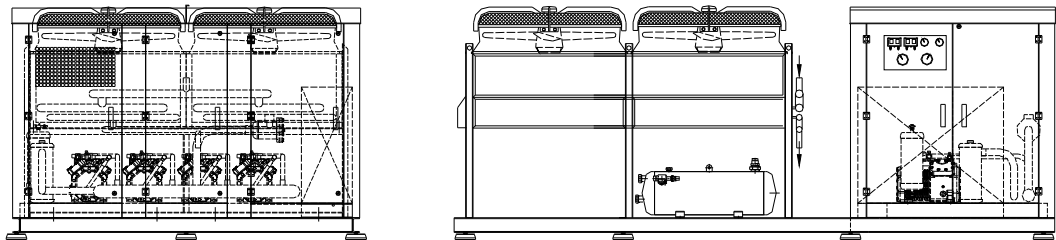
PACK com central de compressores alternativos com capota e condensador EC no topo
 PACK with reciprocating compressors, weatherproof housing and EC condenser on top





PACKS PACKS

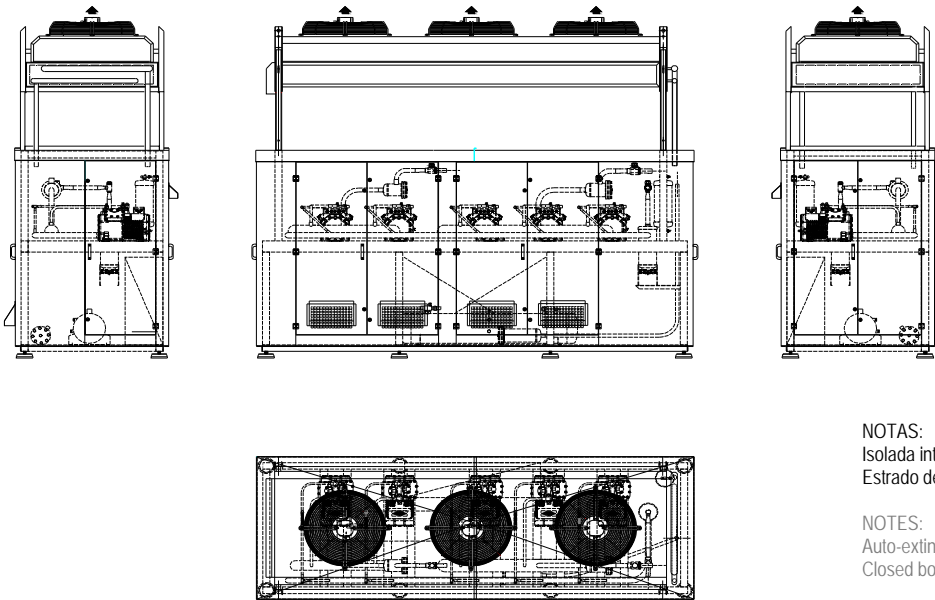
PACK com central de compressores alternativos, capota e condensador ACJ/EC.
PACK with reciprocating compressors, weatherproof housing and ACJ/EC condenser.



QUADRO ELECTRICO
ELECTRICAL BOARD

PACKS PACKS

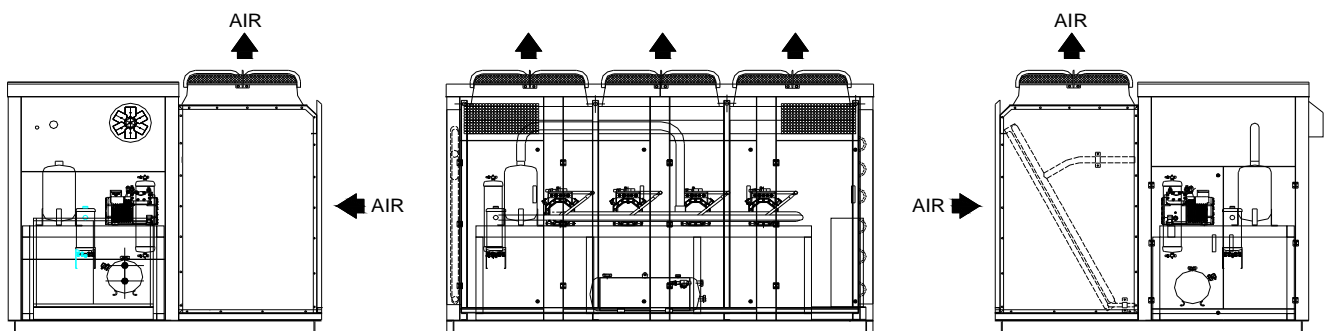
Pack compacta com compressores alternativos, capota e condensador ACI horizontal no topo
Compact PACK with reciprocating compressors, weatherproof housing and horizontal ACI condenser on top.

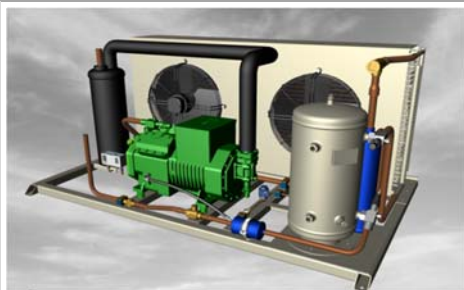


NOTAS:
Isolada interiormente com espuma auto-extinguível.
Estrado de chão fechado.

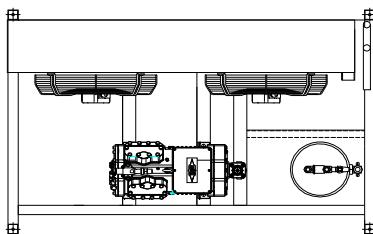
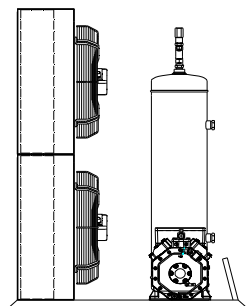
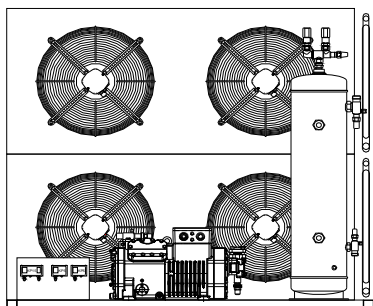
NOTES:
Auto-extinguishable foam interior insulation .
Closed bottom floor.

Pack compacta com compressores de parafuso, capota e condensador VAC
Compact PACK with screw compressors, weatherproof housing and VAC condenser

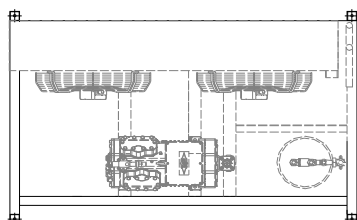
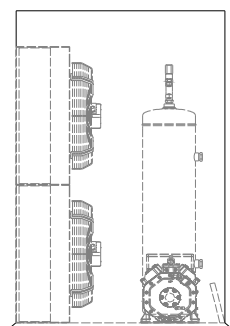
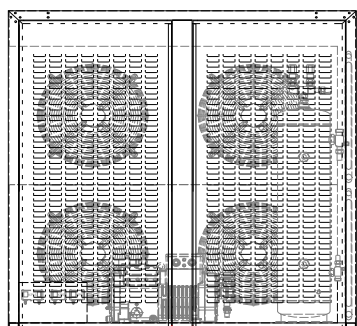




Grupo de Condensação Especial de compressor semi-hermético
Special Condensing Unit with semi-hermetic compressor



Grupo de Condensação Especial de compressor semi-hermético e capota
Special Condensing Unit with semi-hermetic compressor and weatherproof housing



A CENTAURO, à semelhança do que fez com as Centrais, elaborou uma folha de especificações que permite aos clientes definirem o nível de execução/ concepção de grupos de condensação CBS/ FCS ou especiais SCU/ RTU.

A solução CBS/ FCS/ SCU tem vindo a ser apresentada nos Certames Nacionais e Internacionais em que a CENTAURO tem apresentado os seus produtos.

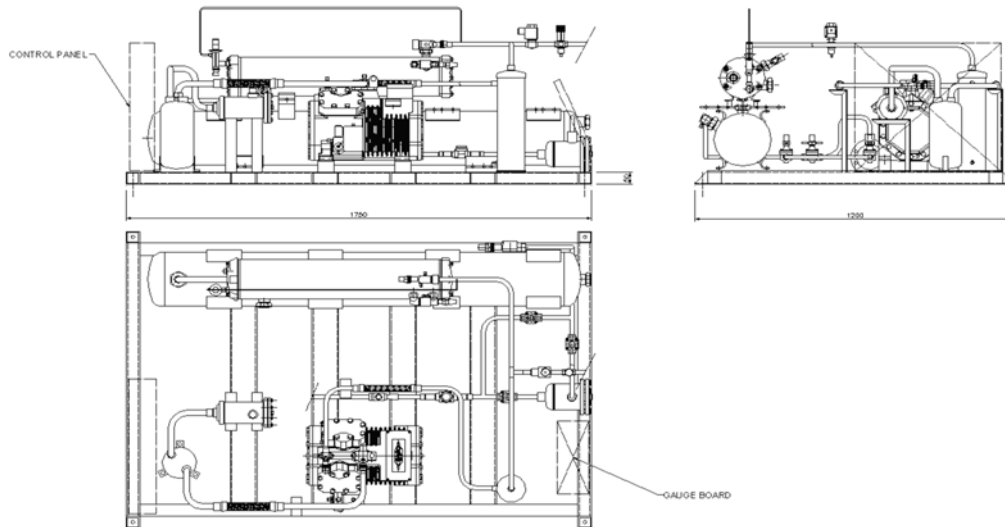
A solução RTU (roof top unit) foi desenvolvida e produzida pela primeira vez, sob consulta, em 1999 e visa responder à crescente problemática do "custo/m²" da construção que na Europa Central e do Norte levou os clientes finais e instaladores a optarem, a nível de refrigeração, por soluções deste tipo já utilizadas em instalações de Climatização e Ar Condicionado (AVAC).

In a similar approach to racks, CENTAURO has created a "specifications list" that allows customers to define the level of components and/or solutions needed in the conception of Condensing Units CBS/FCS or special units SCU/RTU.

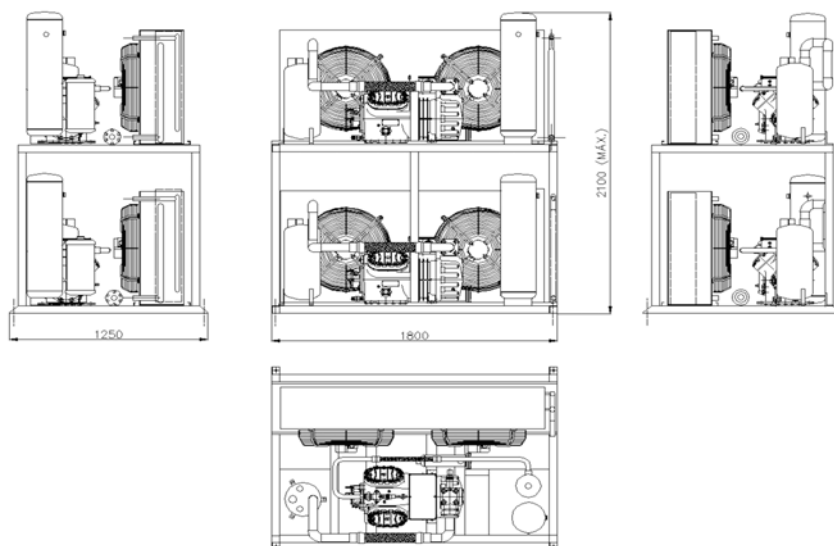
CBS/FCS/SCU solutions have been presented by CENTAURO in national and international exhibitions.

RTU solution (Roof Top Unit) was developed and produced for the first time, as a request, in 1999 and aims to answer the growing problem of surface costs (cost/m²), that led end customers as well as installers in Central and Northern Europe to choose, in Refrigeration, for these type of solutions already in use in HVAC.

Grupo de Condensação a Água com compressor semi-hermético - CBS (W)
Special Water Condensing Unit with semi-hermetic compressor - CBS (W)



Grupo de Condensação a Ar com compressor semi-hermético - CBS (D)
Special Air Condensing Unit with semi-hermetic compressor - CBS (D)





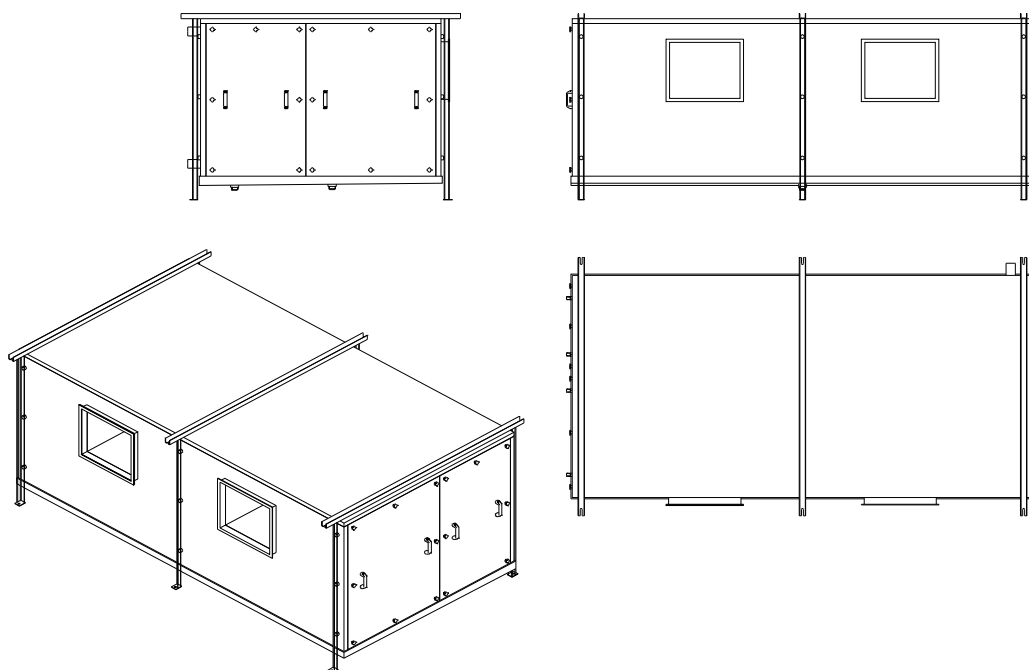
Evaporadores/Frigodifusores para climatização industrial e distribuição de ar por condutas têxteis
Industrial "KLIMAS" centrifugal fan air coolers for air sock system

As unidades de arrefecimento de ar com ventilação centrífuga CENTAURO, são do tipo evaporador / frigidifusor com ventiladores centrífugos concebidos para aplicação de rede de condutas para distribuição de ar em regime de temperatura ambiente (temperatura do ar à entrada) até $+4^{\circ}/+6^{\circ}\text{C}$ (valor inferior), ou mesmo temperaturas inferiores de acordo com a utilização de um sistema de descongelação adicional (água glicolada quente, descongelação eléctrica, descongelação por circulação de ar).

As MTAC para instalação no exterior são isoladas com 50 mm de poliuretano.

CENTAURO's centrifugal fan air coolers, use centrifugal fans designed for air distribution in air sock systems in klimas (processing areas, logistic centers, etc...) applications (air inlet temperature) down to $+4^{\circ}/+6^{\circ}\text{C}$ (lower value), or even lower temperatures together with the use of an additional defrost system (hot glycol, electrical, air circulation).

For outside use MATC's have a 50mm sandwich polyurethane insulation.



NOTA:

Estas unidades, que podem ser desenhadas para NH3, glicol, R404A entre outros refrigerantes, devido às suas dimensões (capacidades até 150 kW ou mesmo mais), se por um lado concentram os controlos num nº reduzido de unidades, por outro lado são normalmente instaladas no exterior do espaço a climatizar.

NOTES:

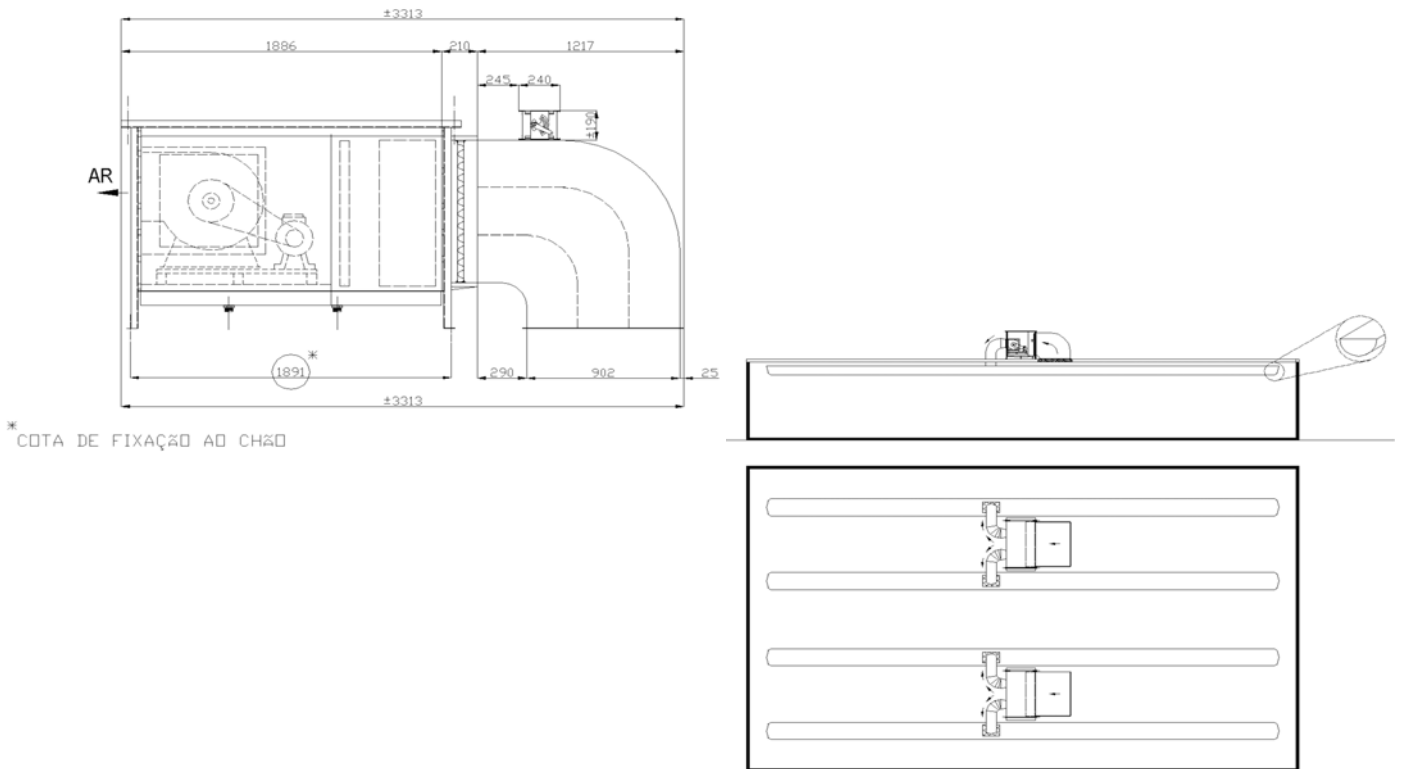
These units, that can be designed to work with NH3, glycol, R404A amongst other refrigerants, due to their dimensions (Capacities that can reach 150kW or even more), can concentrate controls in a reduced number of units, although usually installed outside the acclimated space.

IMPORTANTE:

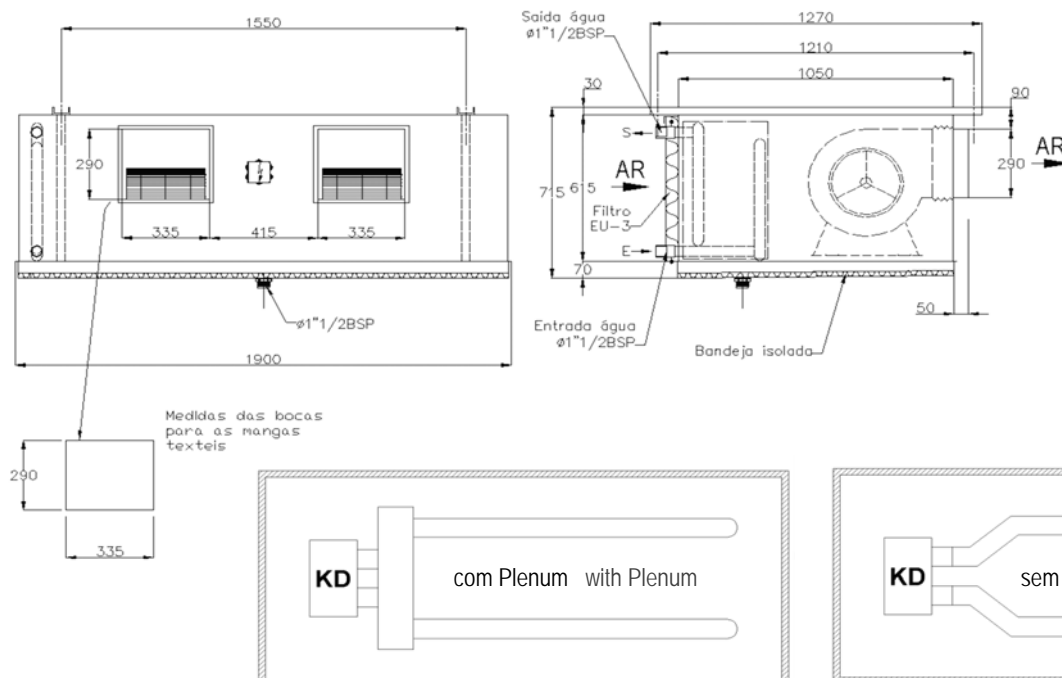
A optimização da concepção do sistema de condutas têxteis para distribuição de ar e a necessidade de redução de ruído leva a que a gama KD/MTAC seja produzida com ventilador centrífugo.

IMPORTANT:

MTAC para instalação no exterior
MTAC for exterior installation



KD (versão reduzida da MTAC para instalação no interior da câmara)
KD (light versin of the MTAC to install inside the "Klima room")





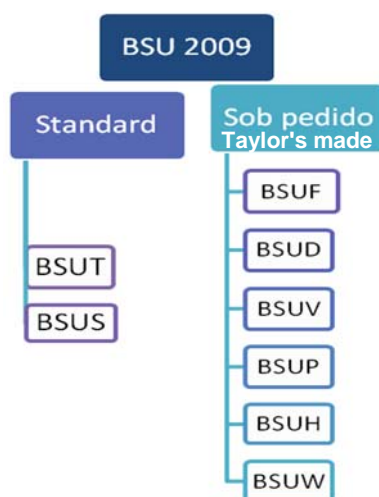
GAMA BSU BSU RANGE

RENOVAÇÃO DE UMA GAMA COM SUCESSO

- NOVO CONJUNTO DE SOLUÇÕES CONSTRUTIVAS DE BASE, DISPONÍVEIS SOB CONSULTA, QUE FACILITAM A CONCEPÇÃO DE TÚNEIS DE ARREFECIMENTO / CONGELAÇÃO ADEQUADOS A PROCESSOS ESPECIAIS.
- TODAS AS SOLUÇÕES STANDARD OU "SOB PEDIDO" DISPONÍVEIS COM TUBO DE COBRE / ALHETA DE ALUMÍNIO (CAHE) OU TUBO INOX / ALHETA DE ALUMÍNIO (SAHE).
- OPTIMIZAÇÃO DA EFICIÊNCIA DO CONJUNTO MOTOR ROTOR INTERNO + VENTILADOR + GOLA DE VENTILAÇÃO GARANTINDO PARA O MESMO CAUDAL DE AR E PRESSÃO MENOS POTÊNCIA INSTALADA (≈25% A -28%).

RE-INVENTING A SUCCESSFUL RANGE

- NEW SET OF DIFFERENT CONSTRUCTIVE SOLUTIONS , AVAILABLE UNDER REQUEST, THAT FACILITATE THE DESIGN OF SPECIAL APLICATIONS CHILLING/FREEZING TUNNELS .
- ALL STANDARD RANGES AND "TAYLOR'S MADE" SOLUTIONS ARE AVAILABLE WITH COPPER TUBES / ALUMINIUM FINS (CAHE) OR STAINLESS STEEL TUBES / ALUMINIUM FINS (SAHE).
- OPTIMIZATION OF THE EFFICIENCY OF THE SET :INTERNAL ROTOR MOTOR + FAN + FAN INLET, GARANTEERING AS BEFORE THE SAME AIR FLOW AND PRESSURE LESS ABSORVED POWER (≈25% A -28%).



Desde 1985 que a gama BSU (BSUT / BSUP) é "o evaporador para túnel de congelação ou arrefecimento rápido". Ao longo destes 23 anos foram surgindo "soluções especiais que refrescaram e potenciaram a utilização desta gama de evaporadores industriais com soluções do tipo BSUS, CBI (BSU duplo fluxo de tecto), BSUT com ventilação assotada entre outras alternativas especiais.

Ao completar 30 anos a gama BSU aparece com cinco novos conceitos disponíveis só sob consulta e pensados para fabricantes de células de arrefecimento ou congelação (BSUF / BSUD / BSUV) ou túneis de grandes dimensões (BSUP, BSUH, BSUW).

Since 1985 is the BSU (BSUT / BSUP) range the "blast freezer tunnel cooler". Over these 23 years special solutions have become available that enabled for a more vast and optimized use of this range of industrial coolers with solutions as the BSUS, CBI (Ceiling double flow cooler), BSUT with wedged ventilation, among other special alternatives.

On the completion of 30 years, the BSU range has now five new concepts only available under request and developed for chilling or freezing cells manufacturers (BSUF / BSUD / BSUV) or large dimension tunnels (BSUP / BSUH / BSUW).

GAMA BSU BSU RANGE

BSUF - BSU Flat
BSUF - Flat BSU

Concebido para células compactas de arrefecimento/congelação, vocacionado para OEM/fabricante deste tipo de equipamento na área das padarias, pré-cozinhados, restauração ou soluções split customizadas. A secção frontal, o caudal de ar e respectiva pressão são concebidos em função da área de carga ou dimensões dos tabuleiros e/ou paletes com caixas.

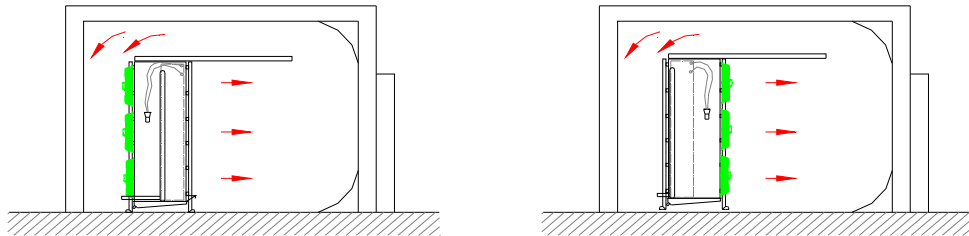
Vantagens:

- Evita suportes no tecto, uma vez que apoia no chão;
- Tem um desenho compacto adaptado à utilização em "células".

Designed for compact chilling/freezing cells, specially addressed to OEM/manufacture of this type of equipment in bakeries, cool and chill systems, Horeca channel or anyother customized solution. The facial area, air flow and pressure are designed according to the loading area and tray dimensions or pallets.

Advantages:

- Floor mounted, doesn't require ceiling supports;
- Compact design for small cells.



BSUD - BSU Duplo Fluxo
BSUD - Double Flow BSU

Concebido para células de arrefecimento / congelação ou para câmaras / túneis de arrefecimento e/ou maturação de produtos frutícolas (cereja, amora, bananas). As baterias coaxiais são verticais e as suas dimensões, caudal de ar e pressão são concebidas em função da área de carga ou dimensões dos tabuleiros e/ou paletes com caixas.

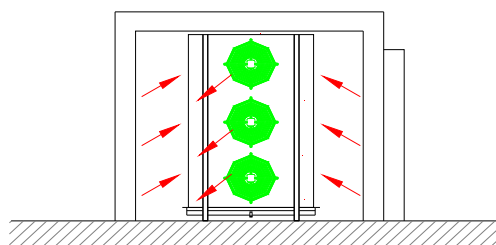
Vantagens:

- Evita suportes no tecto, uma vez que apoia no chão;
- Adapta-se bem à utilização de arrefecimento do tipo "câmara de maturação banana" ou arrefecimento rápido de amoras e cerejas por exemplo;
- Permite a utilização da solução de ventilação reversível para uniformização de temperaturas.

Designed for compact chilling/freezing cells and/or chilling/freezing chambers and/or maturation of fruit products (cherries, blueberry, bananas). The coaxial coils are vertical and their dimensions, air flow and pressure are designed according to the loading area and tray dimensions or pallets.

Advantages:

- Floor mounted, doesn't require ceiling supports;
- Well adapted in chilling "banana maturation chambers" or blast chilling of blackberries or cherries for instance;
- Allow for reversed ventilation for temperature uniformization.





GAMA BSU BSU RANGE

BSUH - BSU com Bateria Horizontal
BSUH - Horizontal Coil BSU

Este "velho" conceito voltou a ser usado em três situações especiais.

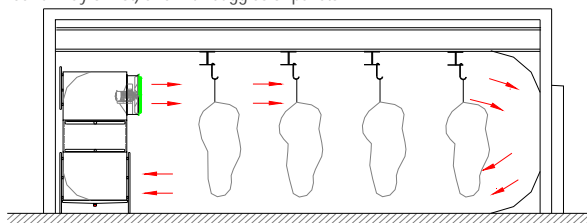
Vantagens:

- Evaporadores de parede com largura reduzida para aplicação em túneis com vias aérea e sem espaço no tecto para aplicação de BSUT ou CBI;
- Aplicações em que o pescado vem com água salgada e a lavagem do túnel recorre igualmente a água salgada, o que ataca fortemente as alhetas de alumínio (barcos, instalação fixa para apoio à pesca);
- Túneis mistos com tapete (leito fluidizado ou não) e com carrinhos ou paletes.

This "old" concept is back again in three special situations.

Advantages:

- Wall coolers with reduced width for tunnel applications with rails and with no ceiling space available for a BSUT or CBI;
- Highly salted fishery applications where the tunnel is washed with salted water, substantially attacking the aluminium fins (boats, fixed instalation for fishing support);
- Drop in and conveyor tunnels (fluidized runway or not) and with buggies or pallets.



BSUW - BSU Baixo Perfil
BSUW - Low Profile BSU

Como já referido a versão BSUW é uma variante da gama standard BSUT.

Vantagens:

A colocação assotada dos ventiladores no "cut-off" dos BSU permite com o próprio evaporador:

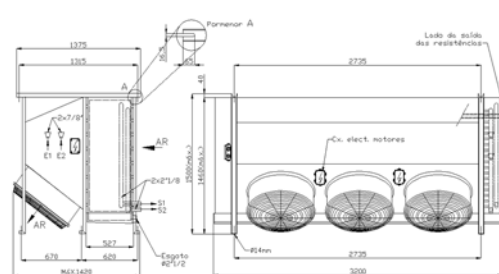
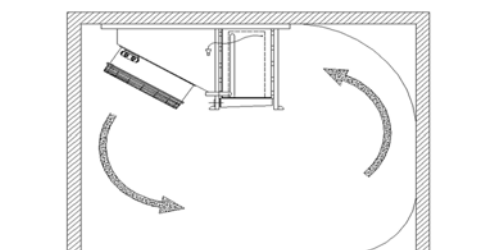
- Em alguns casos, usar a bandeja como tecto falso;
- Evitar os deflectores de ar na insuflação, usando a parede como deflector;
- Nas versões baixo perfil ou perfil standard permite ganhar espaço no túnel e reduzir custos de instalação. Sob pedido os pés de transporte podem ser preparados para utilização permanente, permitindo a suspensão do tecto falso.

As already refered the BSUW version is a variant of the standard BSUT

Advantages:

The wedged placement of the fans on the BSU's "cut-off" allows for the cooler:

- In some cases, to use the drain pan as a false ceiling;
- Using the wall as a deflector instead of placing inlet deflectors;
- In low profile or standard profile versions it allows to gain tunnel space as well as reducing instalation costs. Transport feet can be prepared for permanet use, to allow for a false ceiling to be suspended.



GAMA BSU BSU RANGE

BSUV - BSU Vertical
BSUV - Vertical BSU

Trata-se de uma variante à solução tradicional BSUP adaptada a capacidades mais pequenas para túneis comerciais.

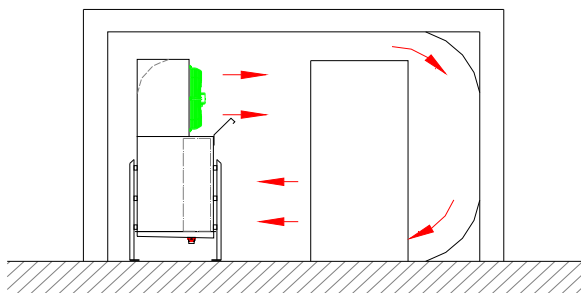
Vantagens:

- Evita suportes no tecto, uma vez que apoia no chão.
- Solução mais compacta e mais económica que o BSUP: caudais e pressão de ar compatíveis com os túneis "comerciais".

Variant of the traditional BSUP version but adapted to smaller capacities for commercial tunnels.

Advantages:

- Floor mounted, doesn't require ceiling supports;
- More compact and economical solution than the BSUP: air flow and air pressures compatible for commercial use.



BSUP - BSU de Piso
BSUP - Floor BSU

Esta solução, desde há alguns anos só disponível sob pedido, permite executar evaporadores completos para túneis industriais, com deflectores incorporados na zona vertical de aspiração e com área facial adaptada à zona de carga.

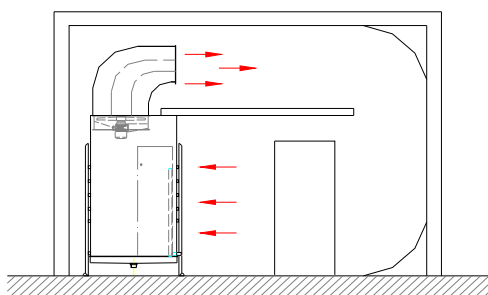
Vantagens:

- Evita suportes no tecto, uma vez que apoia no chão;
- O evaporador tem já incorporado dentro da caixa os deflectores, minimizando o trabalho em obra;
- Permite soluções industriais com grande capacidade instalada.

This solution, only available on request for some years to date, allows to design complete coolers for industrial tunnels, with incorporated suction deflectors and loading area adapted facial area.

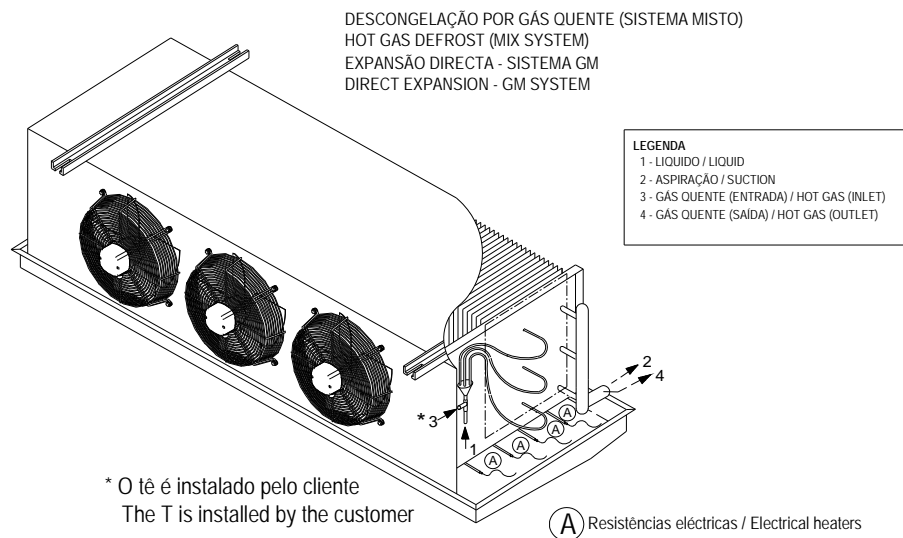
Advantages:

- Floor mounted, doesn't require ceiling supports;
- Minimized in-site work due to a boxed construction with incorporated deflectors;
- Allows for large capacity industrial solutions.



SISTEMA GM GM SYSTEM

Descongelamento por gás quente (Sistema misto). Expansão directa Hot gas defrost (mix system). Direct expansion



SISTEMA GE GE SYSTEM

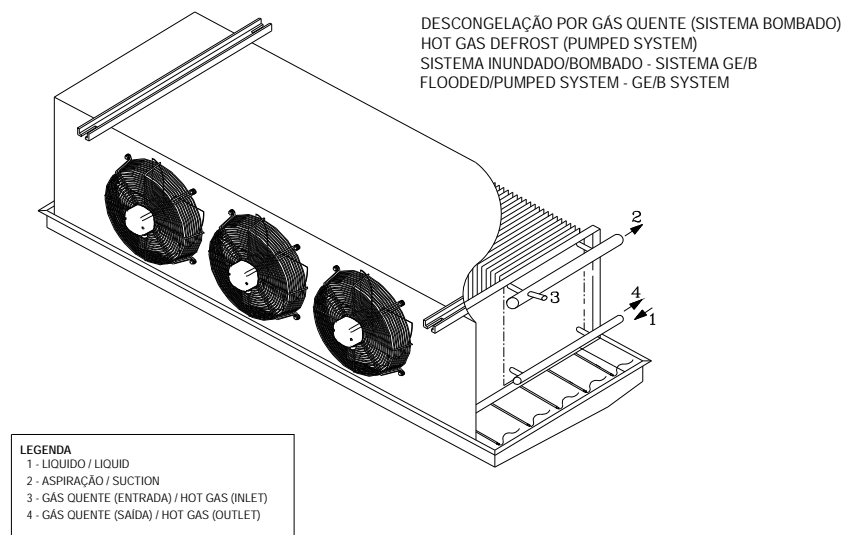
Descongelamento por gás quente (Sistema misto). Expansão directa Hot gas defrost (mix system). Direct expansion

Idêntico ao sistema GM mas com tabuleiro de esgoto isolado.

Identical to the GE system but with insulated drain pan.

SISTEMA GM/B GM/B SYSTEM

Descongelamento por gás quente (Sistema inundado/bombado) Hot gas defrost (Flooded/pumped system)



SISTEMA GE/B GE/B SYSTEM

Descongelamento por gás quente (Sistema inundado/bombado) Hot gas defrost (Flooded/pumped system)

Idêntico ao sistema GM/B mas com tabuleiro de esgoto isolado.

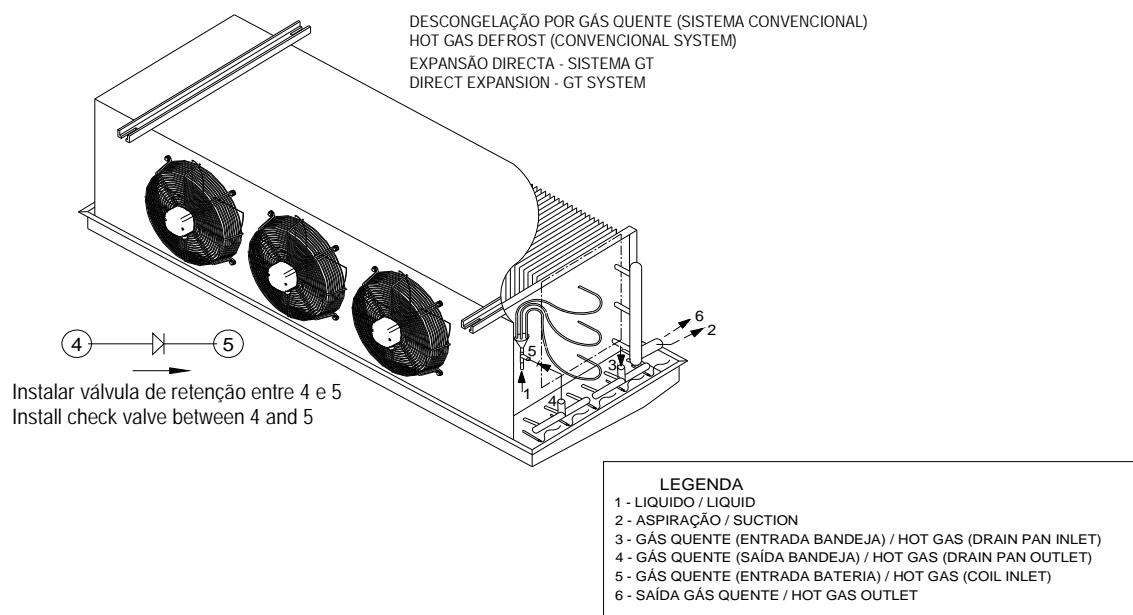
Identical to the GM/B system but with insulated drain pan.

Para mais informação acerca da descongelamento por gás quente, por favor consultar a Centauro ou a informação técnica disponível.

For more information regarding Hot Gas Defrost, please contact Centauro or read the available technical information.

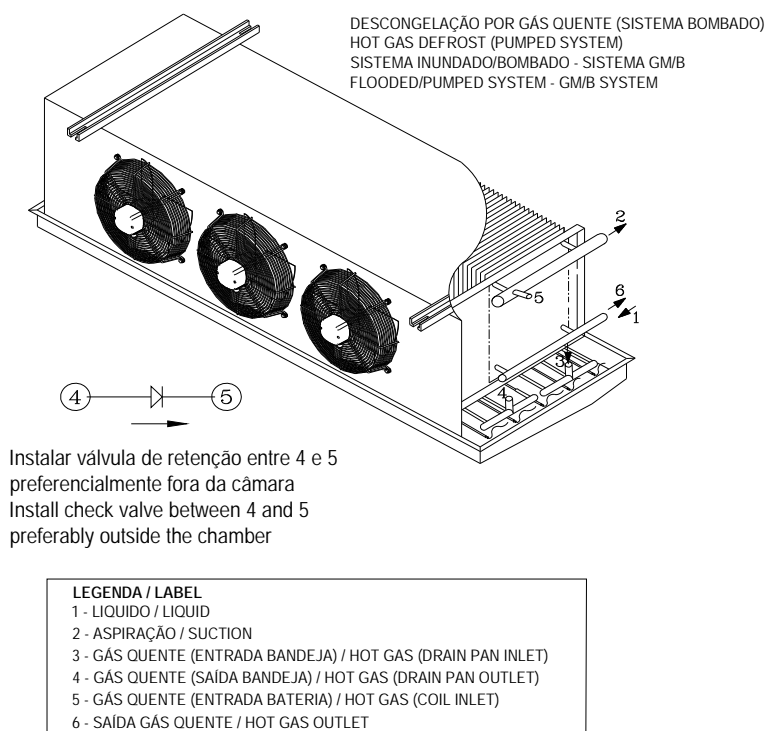
SISTEMA GT GT SYSTEM

Descongelamento por gás quente (Sistema convencional). Expansão directa Hot gas defrost (conventional system). Direct expansion



SISTEMA GT/B GT/B SYSTEM

Descongelamento por gás quente (Sistema convencional). Sistema inundado/bombado Hot gas defrost (conventional system). Flooded/pumped system

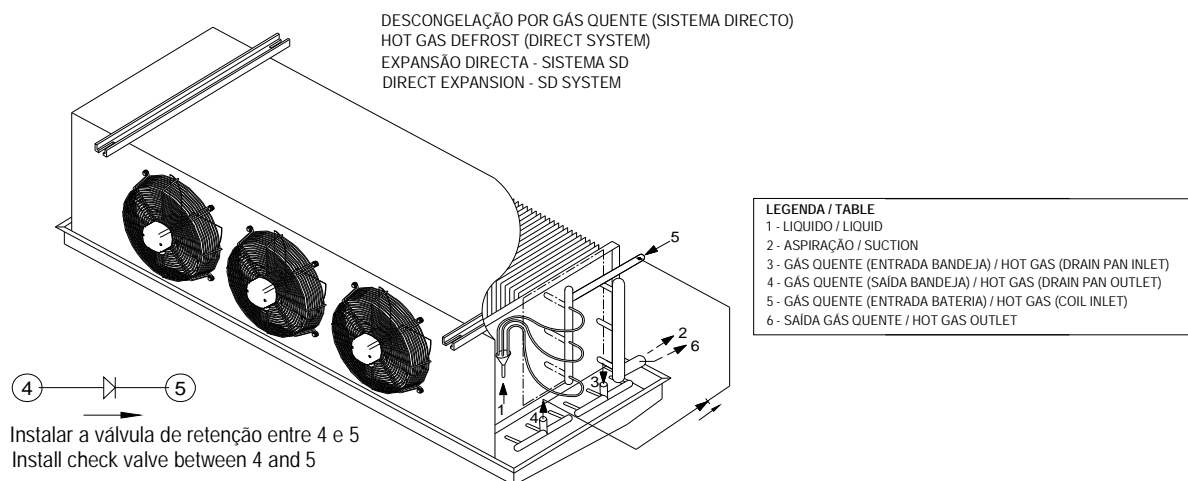


Para mais informação acerca da descongelamento por gás quente, por favor consultar a Centauro ou a informação técnica disponível.

For more information regarding Hot Gas Defrost, please contact Centauro or read the available technical information.

SISTEMA SD SD SYSTEM

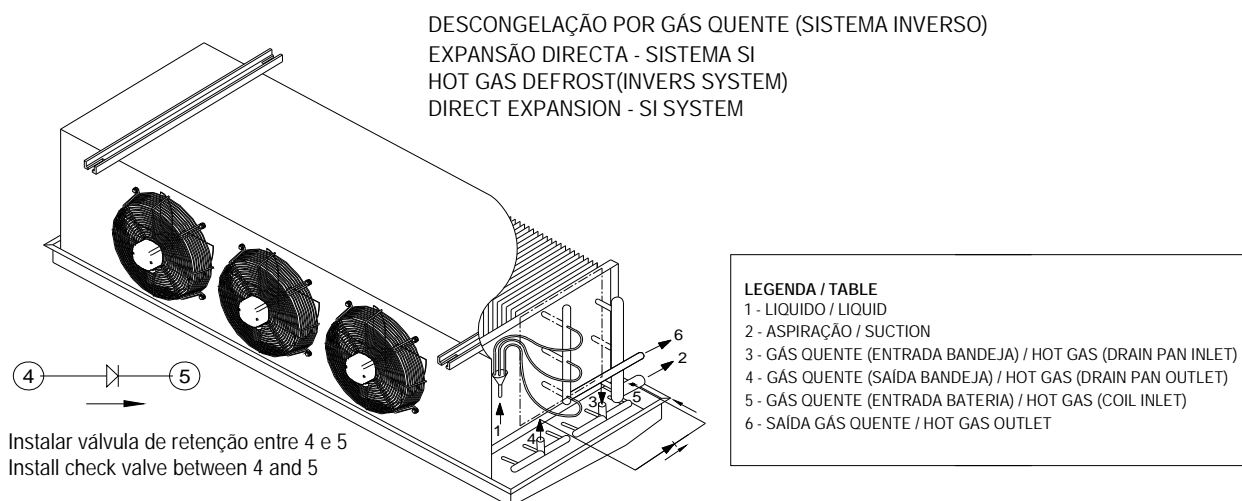
Descongelamento por gás quente (Sistema directo) Hot gas defrost (direct system)



SOB PEDIDO
UNDER REQUEST

SISTEMA SI SI SYSTEM

Descongelamento por gás quente (Sistema Inverso) Hot gas defrost (Inversed System)



SOB PEDIDO
UNDER REQUEST

Para mais informação acerca da descongelamento por gás quente, por favor consultar a Centauro ou a informação técnica disponível.

For more information regarding Hot Gas Defrost, please contact Centauro or read the available technical information.

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01/10 – *Filosofia do Produto Centauro*

02/10 – *Corrosão na Indústria Alimentar*

03/10 – *Família dos Produtos FPEC*

04/10 – *Variadores de Velocidade em Motoventiladores*

05/10 – *Corrosão por “Pitting”*

06/10 – *Fugas em Permutadores de Calor Tubo e Alheta*

07/10 – *Gelo na Indústria de Refrigeração*

08/10 – *Descongelação de Evaporadores – Como e Quando se Pode Reduzir o Consumo de Energia*

09/10 – *Circulação Forçada de Ar em Evaporadores & Frigodifusores, Condensadores & Arrefecedores Secos*

10/10 – *Melhoria da Eficiência em Permutadores de Calor e redução do Impacto Ambiental*

11/10 – *Um Motor Inteligente que Permite Projectar Soluções Inteligentes*

12/10 – *Análise Prática e Comparação de Vários Tipos de Alhetas*



AP/APL



ERK/ERN



DF/DFL



TA/TAL



RWK/BWK



BXN/BXL

Modelo Type	Capacidade 1,35 x SC1 (Tse=10°C / DT1=10°C) Capacity 1,35 x SC1 (Tse=10°C / DT1=10°C)
ERK 304/413	1.29
ERK 304/420	2.04
ERK 304/331	3.08
ERK 406/437	3.73
ERK 406/346	4.63
ERK 406/359	5.85
ERK 456/367	6.65
ERK 456/384	8.39
ERK 506/4109	10.91
ERK 506/3128	12.79
ERK 506/3155	15.46
CBK 4B1/2 R	2.60
CBK 4B2/4 R	4.25
CBK 4B2/6 R	5.73
CBK 3F1/7 R	6.55
CBK 4B3/9 R	8.63
CBK 4B4/12 R	11.72
CBK 3F2/13 R	12.72
CBK 3F3/19 R	19.48
CBK 3F4/25 R	24.57
CBK 4H3/32 R	32.10
CBK 4K3/39 R	39.00
CBK 4H4/42 R	42.30
CBK 4K4/56 R	56.40
CBK 4K5/69 R	68.50
CBK 4B1/3	3.01
CBK 4B2/5	4.81
CBK 4B2/7	7.00
CBK 4B3/10	10.56
CBK 4B4/14	14.10
MTA 4M1/18	17.91
MTA 4P1/26	25.69
MTA 4T1/50	49.86
MTA 4T1/61	60.99
MTA 4S3/84	83.84
MTA 4T2/100	100.24
MTA 4T2/122	122.44
MTA 4T2/134	133.82
MTA 4T3/170	170.33
MTA 4T3/190	189.61
MTA 4M1/18 /AS	14.96
MTA 4P1/26 /AS	20.77
MTA 4T1/50 /AS	41.03
MTA 4T1/61 /AS	47.58
MTA 4S3/84 /AS	63.31
MTA 4T2/100 /AS	82.36
MTA 4T2/122 /AS	95.40
MTA 4T2/134 /AS	100.02
MTA 4T3/170 /AS	136.11
MTA 4T3/190 /AS	144.76

Modelo Type	Capacidade 1,15 x SC2 (Tse=0°C / DT1=8°C) Capacity 1,15 x SC2 (Tse=0°C / DT1=8°C)
AP 204/431	0.22
AP 204/439	0.27
AP 234/463	0.44
APL 204/626	0.20
APL 204/629	0.22
APL 234/645	0.33
APD 111/23	0.16
APD 111/30	0.20
APD 211/42	0.28
APD 211/46	0.31
APD 211/25	0.17
APD 211/36	0.24
APD 211/49	0.33
APD 211/58	0.39
APD 211/68	0.46
APD 212/91	0.62
APD 212/97	0.66
ERN 204/402	0.14
ERN 204/403	0.22
ERN 234/405	0.34
ERN 234/406	0.47
ERN 304/412	0.91
ERN 304/414	1.08
ERN 406/436	2.79
ERN 406/440	3.00
ERN 404/449	3.68
ERN 404/456	4.26

Modelo Type	Capacidade 1,15 x SC2 (Tse=0°C / DT1=8°C) Capacity 1,15 x SC2 (Tse=0°C / DT1=8°C)
DF 400	0.29
DF 402	0.41
DF 404	0.47
DF 460	0.59
DF 462	0.71
DF 500	0.83
DF 502	0.99
DF 504	1.15
DF 506	1.82
DF 508	1.99
DF 5010	2.35
DF 5012	3.13
DF 5014	3.56
DFL 401	0.24
DFL 403	0.31
DFL 405	0.36
DFL 461	0.44
DFL 463	0.55
DFL 501	0.68
DFL 503	0.80
DFL 505	1.01
DFL 507	1.40
DFL 509	1.61
DFL 5011	2.04
DFL 5013	2.64
DFL 5015	3.01
TA 170	0.21
TA 172	0.27
TA 174	0.61
TA 176	0.87
TA 178	1.21
TA 200	0.28
TA 202	0.36
TA 204	0.40
TA 206	0.83
TA 208	0.94
TA 2010	1.32
TA 230	0.47
TA 232	0.59
TA 234	0.73
TA 236	0.77
TA 238	1.13
TA 2310	1.20
TA 2312	1.50
TA 2314	1.92
TA 2316	2.27
TAL 171	0.20
TAL 173	0.24
TAL 175	0.56
TAL 177	0.77
TAL 179	1.04
TAL 201	0.24
TAL 203	0.29
TAL 205	0.33
TAL 207	0.71
TAL 209	0.77
TAL 2011	1.09
TAL 231	0.36
TAL 233	0.46
TAL 235	0.59
TAL 237	0.66
TAL 239	0.77
TAL 2311	0.95
TAL 2313	1.24
TAL 2315	1.58
TAL 2317	1.83

Modelo Type	Capacidade 1,15 x SC2 (Tse=0°C / DT1=8°C) Capacity 1,15 x SC2 (Tse=0°C / DT1=8°C)
RWK 4A1/20	1.35
RWK 4A1/24	1.58
RWK 4A1/27	1.80
RWK 4A1/29	1.89
RWK 4A2/40	2.70
RWK 4A2/49	3.23
RWK 4A2/53	3.54
RWK 4A3/63	4.20
RWK 4A3/69	4.61
RWK 4A3/76	5.05
RWK 4A1/16 R	1.03
RWK 4A1/18 R	1.20
RWK 4A1/21 R	1.37
RWK 4A1/22 R	1.46
RWK 4A2/32 R	2.11
RWK 4A2/36 R	2.37
RWK 4A2/41 R	2.74
RWK 4A3/48 R	3.19
RWK 4A3/55 R	3.68
RWK 4A3/61 R	4.04
BWK 6A1/16	1.08
BWK 6A1/19	1.29
BWK 6A1/21	1.44
BWK 6A1/22	1.56
BWK 6A2/32	2.21
BWK 6A2/37	2.62
BWK 6A2/41	2.83
BWK 6A3/47	3.27
BWK 6A3/55	3.85
BWK 6A3/61	4.26
BWK 6A1/12 R	0.82
BWK 6A1/14 R	0.95
BWK 6A1/17 R	1.11
BWK 6A1/18 R	1.19
BWK 6A2/25 R	1.65
BWK 6A2/29 R	1.95
BWK 6A2/34 R	2.26
BWK 6A3/37 R	2.47
BWK 6A3/44 R	2.92
BWK 6A3/50 R	3.32
BXN 125/16	1.06
BXN 130/24	1.60
BXN 225/32	2.16
BXN 230/49	3.29
BXN 325/50	3.34
BXN 425/64	4.28
BXN 330/74	4.97
BXN 430/99	6.67
BXL 125/12	0.87
BXL 130/19	1.33
BXL 225/24	1.75
BXL 230/38	2.71
BXL 325/38	2.74
BXL 425/48	3.47
BXL 330/57	4.11
BXL 430/76	5.49



CB Ø300 mm



CB Ø400/450/500 mm



MT/DD



MTB
Ø500/560mm



MTB
Ø710/800mm



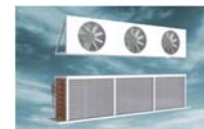
DDC/DDI/DXL Ø500/560mm



DDC/DDI/DXL Ø710/800mm



BSUT



BSUS

Modelo Type	Capacidade 1,15 x SC2 (Tse=0°C / DT1=8°C) Capacity 1,15 x SC2 (Tse=0°C / DT1=8°C)
	W
CBN 4B1/3	2.10
CBN 4B2/5	3.35
CBN 4B2/7	4.88
CBN 4B3/11	7.36
CBN 4B4/15	9.83
CBN 4F2/17	11.16
CBN 4F3/25	16.87
CBN 4F4/34	22.59
CBN 4K2/37	24.24
CBN 4K3/51	33.52
CBN 4K4/79	52.43
CBN 4K5/93	61.47
CBL 7B1/2	1.66
CBL 7B2/3	2.33
CBL 7B2/5	3.40
CBL 7B3/7	5.14
CBL 7B4/10	6.87
CBL 7F2/12	8.60
CBL 7F3/19	13.03
CBL 7F4/25	17.57
CBL 7K2/26	18.29
CBL 7K3/36	25.21
CBL 7K4/56	39.36
CBL 7K5/66	46.37

Modelo Type	Capacidade 1,15 x SC2 (T _{se} =0°C / DT1=8°C) Capacity 1,15 x SC2 (T _{se} =0°C / DT1=8°C)
	W
MT 4C1/3	2.21
MT 4E1/5	3.26
MT 4C2/6	4.27
MT 4C3/8	5.50
MT 4E2/9	5.91
MT 4E2/10	6.46
MT 4C3/10	6.92
MT 4E3/13	8.89
MT 4E3/16	10.31
MT 4E4/18	11.89
MT 4E4/20	13.02
MT 4G2/20	12.91
MT 4G3/23	15.37
MT 4J2/24	15.99
MT 4G3/29	19.21
MT 4L2/36	24.13
MT 4J4/49	32.44
MT 4L3/53	35.32
MT 4L4/68	45.09
MT 4L4/72	48.00
DD 7C1/2	1.64
DD 7C1/3	2.15
DD 7E1/4	2.54
DD 7C2/5	3.62
DD 7C2/6	4.20
DD 7E2/7	4.98
DD 7E2/8	5.94
DD 7C3/9	6.51
DD 7E3/11	7.41
DD 7E3/12	8.70
DD 7E4/14	10.11
DD 7G2/13	9.13
DD 7G3/17	11.67
DD 7J2/19	13.28
DD 7G3/21	14.78
DD 7J3/25	17.66
DD 7L2/26	18.42
DD 7L2/29	20.47
DD 7J4/34	23.57
DD 7L3/35	24.61
DD 7L3/38	26.51
DD 7L3/42	29.70
DD 7L4/53	37.24
MTB 6M1/14	9.60
MTB 6P1/21	13.92
MTB 6P1/25	16.71
MTB 6M2/28	19.34
MTB 6M2/34	23.17
MTB 6P2/41	27.95
MTB 6M3/43	29.10
MTB 6P2/50	33.76
MTB 6P3/59	39.76
MTB 6M4/69	46.69
MTB 6P3/75	50.81
MTB 6T2/79	53.77
MTB 6S3/86	58.77
MTB 6T2/100	67.75
MTB 6T2/114	77.58
MTB 6T3/132	89.97
MTB 6T3/151	102.99

Modelo Type	Capacidade 1,15 x SC2 (Tse=0°C / DT1=8°C) Capacity 1,15 x SC2 (Tse=0°C / DT1=8°C)
	W
DDC 8M1/11	7.92
DDC 8P1/17	12.03
DDC 8P1/19	13.42
DDC 8P1/22	15.44
DDC 8S1/24	16.65
DDC 8M2/30	21.14
DDC 8P2/35	24.31
DDC 8P2/39	27.43
DDC 8S2/40	28.12
DDC 8M3/46	31.91
DDC 8T1/46	32.28
DDC 8P3/59	41.46
DDC 8T2/61	42.67
DDC 8P3/69	48.28
DDC 8T2/80	55.68
DDC 8S3/80	55.73
DDC 8T2/94	65.35
DDL 10M1/10	7.11
DDL 10P1/14	10.55
DDL 10P1/17	12.49
DDL 10M2/19	14.42
DDL 10S1/21	15.26
DDL 10M2/26	19.10
DDL 10P2/29	21.25
DDL 10M2/30	22.54
DDL 10P2/34	25.42
DDL 10M3/39	28.78
DDL 10S2/40	29.65
DDL 10P2/41	30.02
DDL 10M3/46	33.98
DDL 10P3/52	38.35
DDL 10T2/54	39.76
DDL 10P3/62	45.79
DDL 10T2/71	52.79
DDL 10S3/72	53.07
DDL 10T2/85	62.79
DXL 12M1/8	6.38
DXL 12P1/12	9.39
DXL 12M2/17	12.93
DXL 12P1/18	13.91
DXL 12M2/23	17.40
DXL 12P2/25	18.88
DXL 12M2/28	20.88
DXL 12P2/31	23.58
DXL 12M3/35	26.19
DXL 12P2/37	28.22
DXL 12P3/47	35.54
DXL 12T2/48	36.10
DXL 12P3/57	42.95
DXL 12T2/64	48.65
DXL 12S3/66	50.02
DXL 12T2/77	58.28

Modelo Type	Capacidade 1,15 x SC2 (T _{se} =0°C / DT1=8°C) Capacity 1,15 x SC2 (T _{se} =0°C / DT1=8°C)
	W
BSUT 1102.2	12.76
BSUT 1202.2	24.47
BSUT 1302.2	34.21
BSUT 1402.2	41.11
BSUT 1402.2 XL	49.98
BSUT 1502.2	60.67
BSUT 1502.2 XL	78.16
BSUT 1602.2	41.11
BSUT 1602.2 XL	49.98
BSUT 1702.2	60.67
BSUT 1702.2 XL	78.16
BSUT 1802.2 XL	81.26
BSUT 1902.2 XL	102.90
BSUT 2102.2	13.17
BSUT 2202.2	25.72
BSUT 2302.2	35.58
BSUT 2402.2	38.10
BSUT 2402.2 XL	51.63
BSUT 2502.2	54.23
BSUT 2502.2 XL	38.10
BSUT 2602.2	51.63
BSUT 2602.2 XL	54.23
BSUT 2702.2 XL	72.70
BSUT 2802.2 XL	84.53
BSUT 2902.2 XL	89.60
BSUS 3102.2	12.76
BSUS 3202.2	24.47
BSUS 3302.2	34.21
BSUS 3402.2	41.11
BSUS 3402.2 XL	49.98
BSUS 3502.2	60.67
BSUS 3502.2 XL	78.16
BSUS 3602.2	41.11
BSUS 3602.2 XL	49.98
BSUS 3702.2	60.67
BSUS 3702.2 XL	78.16
BSUS 3802.2 XL	81.26
BSUS 3902.2 XL	102.90
BSUS 4102.2	13.17
BSUS 4202.2	25.72
BSUS 4302.2	35.58
BSUS 4402.2	38.10
BSUS 4402.2 XL	51.63
BSUS 4502.2	54.23
BSUS 4502.2 XL	38.10
BSUS 4602.2	51.63
BSUS 4602.2 XL	54.23
BSUS 4702.2 XL	72.70
BSUS 4802.2 XL	84.53
BSUS 4902.2 XL	89.60

IMPORTANTE IMPORTANT

Factores de correcção para DT1 - Ver catálogo técnico
Corrections factors for DT1 - See technical catalog

CONDIÇÕES E TERMOS GERAIS DE FORNECIMENTO

Artigo 1º - Geral

1 - As presentes condições gerais, constantes nas tabelas de preços, aplicam-se a todas as propostas, contratos de venda e serviços prestados pelas Empresas:

CENTAURO (Portugal) - S.G.P.S., S.A - Zona Industrial - Lote Q-9 - Apartado 1001 - 6001-997 Castelo Branco, Portugal. Matriculada na Cons. Reg. Com. Castelo Branco sob o N.º 1170/920310. Pessoa Colectiva nº 502 842 326. Castanheira Henriques & C.ª, L.da - Zona Industrial, Lote Q-9, Apartado 181 - 601-997 Castelo Branco, Portugal. Matriculada na Cons. Reg. Com. Castelo Branco sob o n.º 481. Pessoa Colectiva nº 500785317. Produtor Registrado n.º 060/76 - CAE N.º 29230.

Centauro Internacional - Trocadores de Calor, L.da, Zona Industrial, Lote Q-9, Apartado 1001. 6001-997 Castelo Branco. Sociedade por quotas - Matriculada na Conservatória do Registo Comercial de Castelo Branco sob o n.º 993/900404. Pessoa Colectiva com o Nume-ro fiscal 502 352 426.

Brisa Nova - Trocadores de Calor, L.da., Rua Heróis do Dembo, D-1 a D-3. Bairro de Angola - Camarate. 2685 - 459 Sacavém - Portugal. Sociedade por quotas. Contribuinte n.º 502 392 185. CAE N.º 51650. Registrada na Conservatória do Registo Comercial de Loures, sob o n.º 7860/900411, a seguir genericamente definidas como "Centauro".

2 - As vendas, entregas e outros serviços da Centauro serão executados, exclusivamente, em conformidade com as presentes condições e termos gerais de venda e fornecimento, a seguir designadas por "Condições Fornecimento", aplicando-se ainda a todas as futuras transacções comerciais com o cliente.

3 - Se por decisão judicial alguma(s) das cláusulas das presentes condições de fornecimento ou de algum contrato elaborado com base nas mesmas forem consideradas "não válidas", este facto não afectará as restantes cláusulas desde que tal não conformidade à lei não afecte a essência do contrato e desde que a Centauro aceite a alteração da(s) cláusula (s) em causa por outra(s) enquadra(d)s no direito aplicável.

4 - As presentes condições de fornecimento são consideradas aceites pelo cliente desde que o mesmo coloque uma encomenda à Centauro ou aceite um seu fornecimento, renunciando a eventuais condições que possam existir da sua parte desde que não formalmente aceites por escrito pela Centauro, aplicando-se assim a todos os contratos.

5 - As alterações a estas "condições gerais de fornecimento" só serão válidas se acordadas previamente, por escrito, entre a Centauro e o cliente, sendo as modificações apenas aplicáveis ao contrato em causa.

Artigo 2º - Propostas e Contratos / Celebração do Contrato

1 - As propostas emitidas pela Centauro não a obrigam a qualquer acção ou compromisso, salvo se expressamente referido nas mesmas. Todas as propostas estarão baseadas na execução das encomendas sob condições normais e no horário normal de laboração.

2 - Todas as encomendas colocadas à Centauro serão consideradas irrevogáveis, a menos que a Centauro se recuse a aceitar as mesmas.

3 - O contrato entra em vigor com a aceitação da encomenda do cliente por parte da Centauro e será regido pelos termos de aceitação da encomenda e pelas presentes condições de fornecimento.

Artigo 3º - Prazo de Entrega

1 - A Centauro fornecerá os produtos ou serviços encomendados no prazo especificado na confirmação da encomenda. A Centauro deverá informar o cliente em caso de atraso no cumprimento do prazo estipulado, não podendo o cliente, a menos que expressamente acordado por escrito entre ambas as partes, reclamar qualquer tipo de indemnização por danos decorrentes do atraso no fornecimento.

2 - Caso o atraso seja superior a 6 meses por motivos imputáveis à Centauro e não referidos no artigo 5º, poderá o cliente rescindir o contrato mediante comunicação escrita à Centauro. O direito de rescisão aludido não abrange a parte da encomenda pronta ou em fase de acabamento, cujo recebimento não pode ser recusado, sendo o seu pagamento devido à Centauro numa base de proporcionalidade.

3 - O prazo de entrega conta a partir da formalização do contrato e depois de serem colocados à disposição da Centauro todos os dados, documentos, licenças ou similares necessários para a execução do trabalho e terem sido efectuados os pagamentos nos prazos acordados.

4 - Caso a Centauro aceite a suspensão temporária de uma encomenda a pedido do cliente, a Centauro indicará outro prazo de acordo com os prazos à data em vigor para produtos similares. Quaisquer custos extras decorrentes da suspensão serão suportados pelo cliente.

5 - O fornecimento considera-se sempre efectuado quando os produtos encomendados forem disponibilizados para embarque.

6 - Se a encomenda referir entregas parciais, então cada entrega será considerada um fornecimento separado para todos os efeitos legais, devendo ser facturado e pago individualmente.

7 - A Centauro está autorizada a suspender o cumprimento das obrigações decorrentes do contrato se, após a sua concretização, receber informações que levem a crer não poder o cliente cumprir as suas obrigações.

Artigo 4º - Local de Entrega

O fornecimento será entregue à porta da fábrica / armazém, a menos que acordado de forma diferente e por escrito por ambas as partes.

Artigo 5º - Força Maior

1 - Se a execução do "contrato de fornecimento" for dificultada por motivos de força maior por parte da Centauro ou dos seus fornecedores, a Centauro pode suspender as suas obrigações contratuais. O prazo de entrega/fornecimento será adiado por tempo igual ao atraso ocasionado pelos motivos de força maior sem que haja lugar ao pagamento de qualquer indemnização ao cliente por parte da Centauro.

2 - Neste contexto entende-se "por força maior" todas as circunstâncias em virtudes das quais não possa exigir-se à Centauro, numa base de razoabilidade e justiça, o cumprimento a tempo do contrato. Entre estas circunstâncias estão consideradas as que decorram da intervenção de terceiros pessoas e que não possibilitem à Centauro conseguir a informação essencial para a execução do contrato, assim como situações tais como guerra, perigo de guerra, desordens publicas, revoluções, pirataria, sabotagem, terrorismo, desastres naturais (tempestades, ciclones, terremotos, inundações) danos causados por água ou raios, explosões, incêndio, desordem laboral, destruição das máquinas ou da fabrica ou outras instalações, boicotes, ocupação da empresa, greves, medidas tomadas pela autoridade, obstruções à importação ou exportação, escassez ou atraso de entrega de matérias-primas, materiais ou componentes encomendados pela Centauro, falhas de energia, falta significativa de empregados ou paralisação do trabalho ocasionado por condições ambientais ou outras não relacionadas com a Centauro. Nesta conformidade e quer estas circunstâncias possam ou não ser previsíveis, não se poderá exigir à Centauro o cumprimento do prazo acordado.

3 - A Centauro poderá rescindir o contrato sempre que constate que, devido a motivos de força maior, não será possível cumprir as suas obrigações para com o cliente, sem que este tenha direito a qualquer tipo de indemnização, apesar de ter a obrigação de comprar e pagar à Centauro as matérias-primas, materiais e componentes da encomenda que se encontrem prontos e/ou sejam susceptíveis de fornecimento autónomo. Caso o cliente não assuma esta responsabilidade a Centauro terá o direito de armazenar ou vender os bens, por conta e risco do primeiro.

Artigo 6º - Preço

1 - Caso não tenham sido acordados e confirmados por escrito outros preços, então o preço vigente será o constante da tabela de preços Centauro à data do fornecimento.

2 - A menos que se indique o contrário na proposta ou na encomenda, os preços serão à porta de fábrica / armazém, a que acrescerão os impostos comerciais (IVA entre outros) bem como custos de embalagem especial, manuseamento de cargas, contentores, transportes ou custos adicionais.

Artigo 8º - Envio

1 - O transporte e seguro são sempre de conta e risco do cliente, a menos que tenham sido acordadas entre as partes, por escrito, outras condições.

2 - Considera-se o fornecimento efectuado mesmo que a Centauro disponibilize ao cliente transporte gratuito, sendo que, em caso de ocorrência de acidente, qualquer indemnização devida ao cliente terá sempre como limite o valor recebido da parte da seguradora da Centauro, apenas lhe sendo exigível após a sua percepção efectiva.

3 - Se o cliente não recolher ou se recusar a receber os produtos encomendados, a Centauro terá liberdade para armazenar os produtos por conta e risco do cliente e exigir-lhe que pague os gastos e danos daí decorrentes.

4 - Sempre que o cliente não proceda à recolha ou mantenha a recusa em receber o material encomendado por um prazo superior a 30 dias, ficará obrigado a indemnizar a Centauro em montante equivalente a uma vez e meia o valor de facturação da mercadoria e de todas as despesas de transporte e armazenagem. Nesta eventualidade, decorrido o prazo de mais 30 dias a Centauro terá direito de comercializar livremente as mercadorias pelo preço e condições que entender, sendo o montante obtido deduzido no montante da indemnização

Artigo 9º - Documentação Técnica

1 - Os desenhos, projectos, modelos protótipos, diagramas, direitos de autor, marcas e patentes, software e similares são propriedade da Centauro e não poderão, sem o seu consentimento escrito, ser copiados, imitados, entregues a terceiros pessoas ou, total ou parcialmente, expostos. O cliente não poderá reclamar qualquer direito sobre eles, a menos que a Centauro tenha acordado explicitamente algo diferente na confirmação de aceitação da encomenda.

2 - A Centauro manterá ainda os direitos de autor de todas as soluções de engenharia de produtos fora de catálogo desenvolvidas a pedido do cliente, excepto se o contrário for convencionado por escrito, apenas podendo ser pedida a sua fabricação a terceiros depois de autorização escrita.

3 - Caso o cliente entregue as suas próprias especificações de fabrico, desenhos ou protótipos juntamente com a encomenda, então assumirá todas as responsabilidades pelo facto de a fabricação e fornecimento dos produtos, respectiva marca e patente, não prejudicar os direitos de terceiros pessoas. Caso uma terceira pessoa se oponha à fabricação pela Centauro dos referidos produtos, a Centauro poderá cancelar imediatamente a produção e fornecimento, sem ficar obrigada a pagar quaisquer indemnizações ao cliente. O cliente libertará a Centauro de eventuais reclamações relativamente a terceiros e respeitará o direito da Centauro em pedir compensação pelos gastos, sem prejuízo do direito de recurso ao pedido de indemnização total, o qual lhe assistirá sempre.

Artigo 10º - Pagamento

1 - A menos que tenham sido acordadas por escrito outras condições de pagamento, contra a entrega do equipamento o cliente deverá pagar total e imediatamente à Centauro os valores em dívida - sem desconto ou qualquer tipo de compensação - tendo todas as facturas vencimento na data da sua emissão.

A Centauro considera que o pagamento está efectuado na data em que o valor do mesmo tenha sido creditado numa das suas contas bancárias.

2 - Os eventuais direitos de garantia não eximem o cliente das suas obrigações em termos de pagamentos à Centauro, apenas sendo relevantes as reclamações do cliente devidamente comunicadas por escrito.

3 - Caso o cliente não pagar no prazo acordado entrará imediatamente em mora sem necessidade de reclamação ou informação por parte da Centauro, pelo que será aplicado ao valor da factura em atraso o juro correspondente à taxa legal em vigor.

4 - Todos os custos de cobrança, judicial ou extra judicial, serão por conta do cliente, incluindo os gastos com entidades a que a Centauro tenha solicitado a cobrança. Estes gastos serão automaticamente debitados ao cliente sem qualquer outra justificação por parte da Centauro se não ultrapassarem 15% do valor em dívida. Poderá ainda a Centauro, em caso de atraso de pagamento, debitar ao cliente os custos cambiais calculados desde a data de vencimento.

5 - Caso o cliente não cumpra as condições de pagamento, a Centauro pode de imediato reclamar o valor total da venda com atraso de pagamento por parte do cliente, independentemente do modo de fabricação. Poderá também a Centauro reclamar o pagamento imediato e adiar ou cancelar outras encomendas aceites, sem que possa ser-lhe exigido pelo facto qualquer indemnização ou compensação.

6 - Os pagamentos à Centauro destinam-se ao primeiro a cobrir os juros, depois os gastos e só depois o valor da factura de fornecimento.

7 - Em caso de incumprimento das condições de pagamento serão anulados todos os descontos constantes da factura.

Artigo 11º - Rescisão

1 - Se o cliente não cumprir uma ou mais obrigações, não as cumprir no prazo ou não as cumprir completamente, falecer ou for declarado em falência ou em suspensão de pagamentos ou recuperação de empresa, vender a sua empresa, for submetido a controle ou tutela legal, também se todos ou alguns dos seus produtos sejam embargados ou se for declarado insolvente de qualquer forma, a Centauro pode rescindir unilateralmente o contrato na parte ainda não cumprida, sem qualquer intervenção legal. A Centauro poderá ainda retomar os produtos entregues mas não pagos ou suspender a execução do contrato pelo período que entender.

2 - Em todos os casos mencionados no número anterior será obrigatoriamente devida indemnização à Centauro relativamente à parte da encomenda não fornecida, a qual nunca poderá ser inferior a 50% do preço acordado, sem prejuízo de a Centauro poder reclamar indemnização total sempre que a natureza do fornecimento assim o justifique.

3 - O cliente obriga-se, nestas condições, a libertar a Centauro de eventuais reclamações de terceiros por força de rescisão do contrato.

4 - A Centauro apenas é responsável, perante o cliente, pelas indicações, capacidades, prestação e dados técnicos se especificados por escrito. Desvios menores das tolerâncias usuais e razoáveis não dão o direito ao cliente de apresentar reclamações, rejeitar os produtos, solicitar a substituição dos equipamentos, solicitar a rescisão de contrato ou pedir indemnização por danos.

Artigo 12º - Responsabilidade

1 - A Centauro é responsável legal por qualquer defeito existente nos seus produtos à data da transferência de risco ou pelos danos daí decorrentes, a menos que:

- a) o produto não tenha sido colocado em circulação (protótipos cedidos ou vendidos nessa qualidade);
- b) o defeito seja consequência da observância de requisitos especiais do cliente ou o fornecimento seja feito com reservas, como tal aceites pelo cliente;
- c) o estado da técnica não permita descobrir o referido defeito;
- d) o cliente tenha recomendado e ou fornecido certos materiais ou instalações que possam causar o referido defeito;
- e) - sejam consequência de aplicação sem respeito pelas especificações técnicas do fabricante ou as boas regras da arte.

2 - A Centauro não será considerada responsável por partes ou componentes Centauro incorporados em produtos que não tenham sido comercializados pela Centauro como "produto acabado".

3 - A Centauro não será considerada responsável por danos de qualquer tipo que se produzam nos produtos posse do cliente em resultado da execução de trabalhos que lhe tenham sido encomendados a menos que exista dolo, negligência ou culpa grave. Esta exclusão de responsabilidade aplica-se ao cliente, aos seus empregados e a terceiros, ficando o cliente obrigado a libertar a Centauro de todas as reclamações apresentadas sobre o assunto por terceiros pessoas.

4 - No contexto do referido no ponto anterior a Centauro não pode ser considerada responsável, a qualquer nível, por danos ou perda de material disponibilizado pelo cliente, sendo sempre o transporte dos referidos materiais de conta e risco do cliente.

5 - Quando haja lugar a indemnização a mesma consistirá na reparação do produto fornecido ou em termos financeiros, conforme opção da Centauro, a qual não será responsável por danos de terceiros pessoas ou danos indirectos, incluindo compensação por líquido refrigerante (fluidos frigoríficos primários e secundários). Em nenhum caso a indemnização poderá ser superior ao valor da encomenda correspondente.

6 - São da responsabilidade do cliente todas as reclamações decorrentes do fornecimento pelo cliente dos produtos Centauro a terceiros (tendo a Centauro sempre direito de regresso de todas as quantias pagas), com excepção das responsabilidades decorrentes de normas legais sobre responsabilidade do produto.

7 - Sempre que se verifique qualquer situação potencialmente geradora de dano, o cliente é obrigado a tomar medidas para limitar ao máximo os prejuízos, ficando responsável perante a Centauro e terceiros pelo resultado de qualquer conduta omitida.

Artigo 13º - Garantia

1 - Aplica-se a todos os produtos fornecidos pela Centauro a garantia Centauro, que assegura que os mesmos são entregues sem defeitos de fabrico e com as características acordadas. Não se dará garantia a defeitos imputáveis à natureza ou qualidade dos materiais utilizados, que sejam total ou parcialmente consequência de um qualquer regulamento administrativo. Os defeitos nos produtos fornecidos que sejam consequência directa de um erro de concepção, construção ou montagem da Centauro ou decorram do uso de materiais defeituosos serão reparados e substituídos pela Centauro, se o cliente puder evidenciar que os defeitos se manifestaram no prazo de doze meses posteriores à posta em marcha do equipamento ou no máximo 18 meses depois do fornecimento. O cliente fica obrigado a informar a Centauro imediatamente e por escrito de quaisquer defeitos e de devolver à Centauro com portes pagos os componentes ou produtos defeituosos, comprometendo-se igualmente a tudo fazer para limitar os danos. A garantia considerar-se-á nula caso seja verificada uma das seguintes situações:

- O cliente fizer ou permitir alterações aos equipamentos entregues sem autorização da Centauro;
- O cliente não tiver respeitado as informações ou instruções disponibilizadas pela Centauro;
- Se os equipamentos forem usados para uma finalidade diferente daquela para que foram encomendados.

A garantia considerar-se-á ainda nula se o objecto do fornecimento for entregue pelo cliente a outro país que não o referido na factura de fornecimento.

2 - Caso a pedido do cliente se forneçam materiais ou produtos usados não haverá garantia, a menos que tal seja acordado por escrito. Caso o cliente entregue componentes seus para montagem nos produtos Centauro, a Centauro só dará garantia no que respeita à montagem.

3 - A alegação de não conformidades de cumprimento de obrigações no que concerne a garantias, não exime o cliente do integral cumprimento do contrato celebrado.

4 - A Centauro não será responsável pelos erros, defeitos, deficiências e avarias decorrentes de manuseamento indevido dos equipamentos por parte do cliente, seus empregados ou terceiros, por deficiente instalação, técnica de controlo ou manutenção dos seus produtos, se não forem respeitadas as especificações técnicas fornecidas pelo fabricante, por uso e desgaste normal decorrentes do funcionamento ou por condições deficientes de alimentação de corrente eléctrica, devendo ser fornecidos à Centauro os necessários registos sob pena da sua completa desresponsabilização. O mesmo se aplicará caso o cliente, seus empregados ou terceiros procedam a intervenções nos equipamentos durante a validade da garantia sem autorização escrita da Centauro.

5 - Todas as reclamações relativas a defeitos dos produtos que sejam directamente visíveis ou identificáveis deverão ser comunicadas de imediato (máximo de 5 dias úteis) à Centauro por escrito até continuo à recepção dos equipamentos, sem o que não será considerado qualquer direito a reclamação contra a Centauro.

Artigo 14º - Contencioso e Legislação Aplicável

Ao contrato com o cliente aplicar-se-á exclusivamente a legislação portuguesa. Para a resolução de todos os litígios emergentes do contrato será competente o Tribunal do foro da Comarca de Castelo Branco, com exclusão expressa de qualquer outro.

GENERAL TERMS AND CONDITIONS OF SUPPLY

Article 1 – General

1 – These present general conditions, set out in the price lists, are applicable to all offers, sales contracts and services provided by the following companies:

CENTAURO (Portugal) – S.G.P.S., SA, Zona Industrial – Lte O9 – Apartado 1001 – 6001-997 Castelo Branco, Portugal, registered at the Castelo Branco Registry of Companies under nº 1170/920310, VAT nº 502 842 326;

Castanheira Henriques & Cª Lda, Zona Industrial – Lte O9 – Apartado 181 – 6001-997 Castelo Branco, Portugal, registered at the Castelo Branco Registry of Companies under nº 481, VAT nº 500 785 317, Registered Producer nº 060/76 – NACE n.º 29230;

Centauro Internacional – Trocadores de Calor, Lda, Zona Industrial – Lte O9 – Apartado 1001 – 6001-997 Castelo Branco, Portugal, registered at the Castelo Branco Registry of Companies under nº 993/900404, VAT nº 502 352 426;

Brisa Nova – Trocadores de Calor, Lda, Rua Heróis do Dembo, D1-D3, Bairro de Angola, Camarate, 2685-459 Sacavém, VAT nº 502 392 185, NACE nº 51650, registered at the Loures Registry of Companies under nº 7860/900411, hereunder known generally as "Centauro";

2 – Centauro's sales, deliveries and other services shall be carried out exclusively in accordance with the general terms and conditions of sale and supply, hereinafter known as "Conditions of Supply", which shall also apply to all future commercial transactions with customers.

3 – If by decision of the courts any of the clauses of the present Conditions of Supply or of any contract drawn up on the basis hereof come to be considered "not valid", such a decision shall not affect the remaining conditions, provided that such non-conformity with the law does not affect the essence of the contract, provided always that Centauro accepts the replacement of the clause or clauses in question by others in keeping with applicable law.

4 – These present Conditions of Supply shall be deemed accepted by the customer provided that the customer places an order with Centauro or accepts a supply from Centauro, renouncing such conditions as the customer itself may have that are not formally accepted in writing by Centauro, and shall thus apply to all contracts.

5 – Alterations to these General Conditions of Supply shall be valid only if agreed in writing in advance by Centauro and the customer, such alterations to apply only to the contract in question.

Article 2 – Offers and contracts / closing the contract

1 – Offers made by Centauro do not bind it to any action or commitment unless expressly stated therein. All offers shall be based on execution of orders under normal conditions and during normal working hours.

2 – All orders placed with Centauro shall be considered irrevocable, unless Centauro refuses to accept them.

3 – The contract takes effect on acceptance by Centauro of the customer's order and shall be governed by the terms of acceptance of the order and by these present Conditions of Supply.

Article 3 – Delivery dates

1 – Centauro shall supply the products or services ordered by the deadline specified on the order confirmation. Centauro shall inform the customer in the event of delay to compliance with stipulated delivery date, and unless expressly agreed in writing between both parties, the customer may not claim any kind of indemnity or damages arising from the delay to the supply.

2 – Should the delay be of more than 6 months for reasons attributable to Centauro other than those referred to in Article 5, the customer may terminate the contract by means of written communication addressed to Centauro. The said right to termination does not cover that part of the order ready or at the finishing stage, which cannot be refused, and payment thereof shall be owed to Centauro on a proportional basis.

3 – The delivery date is reckoned as from the moment of formalisation of the contract and after all the data, documents, licences or similar items required to execute the work have been provided to Centauro and after the payments have been made by the agreed dates.

4 – In the event that Centauro accepts temporary suspension of an order at the request of the customer, Centauro shall indicate another delivery date in accordance with delivery dates then current for similar products. Any additional costs arising from the suspension shall be borne by the customer.

5 – The Supply shall be considered as having been made when the products ordered are ready for shipment.

6 – If the order calls for partial deliveries, then each delivery shall be considered as a separate supply for all legal intents and purposes, and shall be invoiced and paid individually.

7 – Centauro is authorised to suspend compliance with the obligations arising from the contract provided that, following its formalisation, it receives information leading it to believe that the customer cannot meet its obligations.

Article 4 – Place of delivery

The Supply shall be made at the factory / warehouse gate unless otherwise agreed in writing by both parties.

Article 5 – Force majeure

1 – In the event that the execution of the supply contract is hindered by force majeure affecting Centauro or its suppliers, Centauro may suspend its contractual obligations. The delivery/supply date shall be postponed by a period of time equal to the delay caused by the force majeure, no payment of any indemnity by Centauro being due to the customer.

2 – In this connection "force majeure" is understood to be any circumstance by virtue of which Centauro cannot reasonably and fairly be required to comply with the contract in due time. Such circumstances are considered to include those arising from third-party intervention preventing Centauro from obtaining information essential to the execution of the contract, as well as situations such as war, danger of war, public disorder, revolutions, piracy, sabotage, terrorism, and natural disasters (storms, cyclones, earthquakes, floods), damage caused by water or lightning, explosions, fire, labour disorder, destruction of machinery, factory or other installations, boycotts, occupation of the company, strikes, measures taken by the authorities, obstruction to imports or exports, scarcity or delays to the delivery of raw materials, materials or components ordered by Centauro, power outages, significant shortage of employees or stoppage of work caused by weather conditions or other conditions not related with Centauro. Accordingly, whether such circumstances may be predictable or not, Centauro cannot be required meet the agreed delivery dates.

3 – Centauro may terminate the contract in the event that it finds that, owing to force majeure, it will be unable to meet its obligations towards the customer, and the latter shall not be entitled to indemnity of any type, despite being obliged to buy from and pay to Centauro the raw materials, materials and components of the order that are ready and/or are capable of being supplied autonomously. Should the customer not assume this responsibility, Centauro shall be entitled to store or to sell the goods for and on behalf of the customer.

Article 6 – Price

1 – In the event that other prices shall not have been agreed and confirmed in writing, the ruling price shall be that set out in the Centauro pricelist on the date of supply.

2 – Unless otherwise indicated in the offer or in the order, prices shall be at the factory / warehouse gate and shall be subject to commercial taxes (VAT, among others) and to costs of special packing, cargo handling, containers and transport or additional costs.

Article 7 – Transmission of risk and ownership reservation

1 – Products supplied by Centauro shall continue to be its property until such time as the customer shall have met all its financial obligations towards Centauro stemming from the contract entered into by the parties, including interest and bank charges.

2 – Transfer of the risk to the customer is automatic, taking place on formal communication to the customer of the readiness for delivery of the object of the supply, or on its delivery to the transportation company or the customer.

3 – Without prejudice to Centauro's other rights, Centauro shall have ownership reservation over all materials and equipment transacted up to the time of their full payment, the customer granting Centauro irrevocable power to repossess, without judicial intervention, the products supplied by it or to dismantle them and repossess them in the event of being installed in immovables or in a movable, provided that customer shall not meet its obligations in terms of timely payment.

4 – In the event that the legislation of the customer's country is contrary to the application of the provisions of number 2 of this article, the customer shall have due regard for the rights indicated by Centauro or that can be claimed under the laws of the country in question.

5 – The customer is obliged to provide such support as may be necessary for Centauro to be able to exercise its rights as stated in number 3 of this article.

6 – Should Centauro so require, the customer shall be obliged to provide sufficient guarantee to ensure compliance with its obligations, in a form acceptable to Centauro. In this case right of ownership of the products shall be transferred to the customer as soon as the guarantee is provided.

7 – In the event of Centauro exercising its ownership reservation right it cannot be required to pay any indemnity for any losses or loss of profits resulting from the repossession measures and from the possible dismantling of the equipment supplied.

Article 8 – Dispatch

1 – Transport and insurance shall be for the account and at the risk of the customer, unless the parties shall have agreed other conditions in writing.

2 – The Supply shall be considered as having been made even if Centauro provides the customer with free transport, and, in the event of any accident, the limit of any indemnity owed to the customer shall be the value received from Centauro's insurer, which can be demanded only following its actual receipt.

3 – In the event that the customer does not pick up refuses to receive the products ordered Centauro shall be free to store the products for the account and at the risk of the customer and to demand that the customer pay the costs and damages arising therefrom.

4 – In the event that the customer does not collect or continues to refuse to receive the material ordered during a period of more than 30 days, it shall be obliged to indemnify Centauro in a sum equivalent to one and a half times the value of the merchandise invoiced and of all transport and storage costs. In this case, after more than 30 days have passed, Centauro shall be entitled to freely sell the merchandise for such price and other conditions as it may deem fit, the amount obtained being deducted from the amount of the indemnity.

Article 9 – Technical documentation

1 – Drawings, designs, prototype models, diagrams, copyright, brands and patents, software and similar items are the property of Centauro and may not, without its written consent, be copied, imitated, delivered to third parties or totally or partially displayed. The customer may not claim any right over them unless Centauro shall have explicitly agreed otherwise in its confirmation of acceptance of the order.

2 – Centauro shall retain copyright over all product engineering solutions not included in its catalogue, developed at the request of the customer, unless otherwise agreed in writing, and manufacture of the items in question may only be requested of third parties after written authorisation has been obtained.

3 – In the event of the customer handing over its own manufacturing specifications, drawings or prototypes together with the order it will be responsible for ensuring that the manufacture and supply of the products, their respective brands and patents, do not affect the rights of third parties. Should a third party oppose the manufacture by Centauro of the said products, Centauro may immediately cancel production and supply without being obliged to pay any indemnity to the customer. The customer shall release Centauro from any claims made by third parties and shall have due regard for Centauro's right to demand compensation for costs incurred, without prejudice to the right of recourse to full indemnity, a right to which it shall be entitled at all times.

Article 10 – Payment

1 – Unless other payment conditions shall have been agreed in writing, the customer shall pay amounts owed to Centauro in full immediately – with no discount or other type of compensation – all invoices falling due on the date of their issue.

Centauro considers that payment has been made on the date on which the respective value has been credited to one of its bank accounts.

2 – Any existing warranty rights shall not exempt the customer from its obligations in terms of payments to Centauro, and only customer complaints duly communicated in writing shall be considered relevant.

3 – In the event of the customer not paying by the agreed deadline it shall immediately be in default with no need for any claim or information by Centauro, and for this reason default interest shall be applied to the value of the outstanding invoice at the legally prevailing rate.

4 – All costs incurred with collection, through the court or otherwise, shall be for the account of the customer, including costs incurred with entities requested by Centauro to make the collection. Such costs shall automatically be debited to the customer with no other justification by Centauro provided they do not exceed 15% of the amount in debt. In the event of late payment, Centauro may also debit the customer for any foreign exchange costs calculated as from the maturity date.

5 – In the event of the customer not meeting the payment conditions, Centauro may immediately claim the full value of the sale in respect of which payment by the customer is overdue, regardless of any manufacturing delay. Centauro may also demand immediate payment and postpone or cancel other orders accepted, and for this fact no indemnity or compensation may be demanded of it.

6 – Payments to Centauro shall in the first place be set off against interest, next against expenses, and only then against the value of the Supply invoice.

7 – In the event of non-compliance with the payment conditions any discounts shown on the invoice shall be cancelled.

Article 11 – Termination

1 – In the event of the customer not meeting one or more obligations, not complying with them by the deadline or not complying with them completely, in the event of his/her decease or of declaration of bankruptcy, sale of the company, being submitted to legal control or oversight, and also in the event of some or all the products being seized, or if it is declared in any way insolvent, Centauro may unilaterally terminate the contract in that part not yet fulfilled, with no legal proceedings of any sort. Centauro may also repossess those products delivered but not paid for or suspend execution of the contract for such time as it may deem fit.

2 – In all the cases mentioned in the foregoing number indemnity shall be due to Centauro in respect of that part of the order not supplied, though never less than 50% of the agreed price, without prejudice to Centauro are being able to claim full indemnity provided the nature of the supply so warrants.

3 – Under these conditions the customer undertakes to release Centauro from any claims by third parties stemming from termination of the contract.

4 – Centauro is responsible towards the customer only for the indications, capacities, provision and technical data specified in writing. Customary and reasonable minor tolerance deviations shall not entitle the customer to submit claims, reject products, request replacement of equipment, request termination of the contract or request indemnity for damages.

Article 12 – Liability

1 – Centauro is legally liable for any defect existing in its products as of the date of the transfer of the risk and for damages arising therefrom, unless:

the product shall not have yet been put on the market (prototypes assigned or sold as such);

the defect stems from observance of special requirements of the customer or if the supply is made with reservations, accepted as such by the customer;

it is technically impossible to discover the defect in question;

the customer shall have recommended and/or supplied certain materials or installations that could cause the said defect; and they are the consequence of application without due regard for the manufacturer's technical specifications or for good practice.

2 – Centauro shall not be considered liable for Centauro parts or components incorporated into products that have not been marketed by Centauro as a "finished product".

3 – Centauro shall not be considered liable for damages of any type occurring in products in the possession of the customer as a result of execution of works ordered of it, unless there is fraud, negligence, all serious blame. This exclusion of liability is applied to the customer, to its employees and third parties, and the customer shall be obliged to release Centauro from all claims presented in respect of the matter by third parties.

4 – Within the context of the foregoing point, Centauro cannot be considered liable, at any level, for damage to or loss of material provided by the customer, the transport of the said materials be for the account and at the risk of the customer at all times.

5 – In the event of entitlement to indemnity it shall consist of the repair of the products supplied or financial compensation, at the option of Centauro, which shall not be liable for third-party damages or indirect damages, including compensation for liquid coolants (including primary and secondary coolant fluids). In no case may the indemnity be of a value greater than that of the corresponding order.

6 – The customer shall be liable for all claims arising from the supply by the customer of Centauro products to third parties (Centauro being at all times entitled to right of recourse in respect of all sums paid), with the exception of liabilities arising from legal rules on product liability.

7 – In the event of any occurrence that could potentially generate damage, the customer is obliged to take measures to limit losses to the extent possible, and shall be liable to Centauro and third parties for the results of any conduct omitted.

Article 13 – Warranty

1 – The Centauro warranty is applicable to all products supplied by Centauro, the warranty guaranteeing that they are delivered with no manufacturing defects and with the agreed characteristics. No warranty shall be given in respect of defects attributable to the nature or quality of the materials used that may be fully or partially the consequence of an administrative regulation. The defects of products supplied that are the direct consequence of a design, construction or erection error by Centauro arising from the use of defective materials shall be repaired and replaced by Centauro, provided the customer can demonstrate that the defects appeared within twelve months of the commissioning of the equipment or within 18 months of the supply. The customer is obliged to inform Centauro immediately, in writing, of any defects and to return to Centauro, carriage paid, the defective components or products, also undertaking to do everything possible to limit the damage. The warranty shall be considered null in any of the following cases:

if the customer undertakes or allows alterations to the equipment delivered without the consent of Centauro;

if the customer does not have due regard for the information or instructions provided by Centauro; and/or

if the equipment is used for a purpose other than that for which it was ordered.

The warranty shall also be considered null if the object of the supply is delivered by the customer to a country other than that mentioned in the supply invoice.

2 – If at the request of the customer used materials or products are supplied there shall be no warranty unless agreed in writing. In the event that the customer provides its own components be fitted to Centauro products, Centauro shall provide warranty only with regard to the erection.

3 – Allegation of non-conformities in complying with obligations concerning warranties shall not exempt the customer from full compliance with the contract.

4 – Centauro shall not be liable for errors, defects, deficiencies and breakdowns resulting from improper handling of the equipment by the customer, its employees or third parties, for lack of regard for the technical specifications provided by the manufacturer, for normal wear and tear, or for defective electric power supply, Centauro to be provided with the necessary records failing which it is liability shall be waived in full. This shall also apply in the event that the customer, its employees or third parties tamper with the equipment during the warranty period without the written consent of Centauro.

5 – All claims in respect of product defects that are directly visible or identifiable shall immediately be communicated (within 5 working days) to Centauro in writing following reception of the equipment, otherwise no entitlement to a claim against Centauro shall be recognised.

Article 14 – Disputes and applicable legislation

Portuguese legislation shall apply exclusively to the contract with the customer. The Castelo Branco District Court shall be competent to settle all disputes arising from the contract, all others being expressly excluded.

NOTAS NOTES



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