



S.E.R.



- **Aeroevaporatori, condensatori e raffreddatori di liquido**
- **Evaporateurs, condenseurs et aero-refrigerants**
- **Unit coolers, condensers and dry cooler**
- **Испарители, конденсаторы и сухие градирни**

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SER srl è lieta di presentarVI la nuova gamma di Aeroevaporatori Condensatori Remoti Raffreddatori di liquido. Potete trovare l'evaporatore per ogni esigenza: Conservazione, Congelamento, Surgelazione e Condizionamento, per uso ad espansione diretta con gas refrigerante, o su richiesta per uso acqua glicolata; con bassa o alta ventilazione, motori aspiranti, prementi e a doppia velocità. **Su richiesta si eseguono: trattamenti anti corrosivi, circuitazioni per acqua refrigerata, circuiti multipli, e carrozzerie per diversi tipi di applicazioni.** Ogni prodotto viene spedito con una carica interna di circa 3 bar in azoto, per assicurare l'installatore da eventuali perdite. La **SER srl** da sempre molto attenta all'ambiente, offre prodotti completamente atossici, idonei all'utilizzo con i nuovi fluidi refrigeranti. L'impiego di materie prime di elevata qualità provenienti da fornitori selezionati, la continua ricerca di soluzioni innovative tecnicamente all'avanguardia, e i controlli sistematici sul processo di lavorazione, in ottemperanza con le vigenti normative Europee, sono la garanzia di un'azienda da sempre attenta alla qualità dei propri prodotti e alla salvaguardia dell'ambiente. Dal 2003, su richiesta della clientela, è stata introdotta la produzione di Aeroevaporatori con il tubo in Acciaio INOX.

2 ANNI DI GARANZIA

OGNI APPARECCHIO È GARANTITO 24 MESI DALLA DATA DI SPEDIZIONE PER QUALSIASI DIFETTO DI COSTRUZIONE. L'APPARECCHIO DEVE PERVENIRE AL NOSTRO STABILIMENTO DI PRODUZIONE IN PORTO FRANCO. LA GARANZIA SI ESTENDE SOLO ALLA RIPARAZIONE O, DOPO NOSTRO INSINDACABILE GIUDIZIO ALLA SOSTITUZIONE DEL PRODOTTO STESSO. SONO ESCLUSE DALLA GARANZIA EVENTUALI MANOMISSIONI DA PARTE DI PERSONALE NON AUTORIZZATO, IL CATTIVO USO E L'ERRATA INSTALLAZIONE DEL PRODOTTO.
LA S.E.R.SRL SI RISERVA IL DIRITTO DI APPORTARE MODIFICHE SUI MODELLI DEL PRESENTE CATALOGO IN OGNI MOMENTO E SENZA ALCUN AVVISO, DECLINA INOLTRE OGNI RESPONSABILITÀ PER POSSIBILI ERRORI DI STAMPA.



The Company **S.E.R. srl** is proud to offer the new models of Unit coolers (Evaporators) Condensers and Dry coolers. It is possible to find the evaporator for every kind of demand: positive temperature conservation, low temperature conservation, low temperature conservation and freezing, Conditioning, for using direct expansion with refrigerant gas, or on demand for using glycol water, with low or high ventilation, with double speed fans. **On request we manufacture anticorrosive treatments, chilled water circuits, and bodies for different types of applications** Each products is delivered with an internal nitrogen charge of abt 3 bars, to assure the customers from any leaks. The Company **S.E.R. srl** is always careful to the environment; we offer products completely nontoxic, suitable with the use of the new refrigerant fluids. The employment of very high quality raw materials from selected suppliers, the continuous research of innovating solutions and the systematic control on the working practice following the European Regulations, are the guarantee of a Company that is always careful to the quality of the products and of the protection of the environment. As from the year 2003, on demand of the customers, we manufacture Evaporators with Inox tube.

2 YEARS GUARANTEE

ALL OUR PRODUCTS ARE GUARANTEED AGAINST DEFECTIVE WORKMANSHIP FOR A PERIOD OF 24 MONTHS FROM THE DATE OF SHIPMENT. IF A DEFECT SHOULD DEVELOP WITHIN THE GUARANTEE PERIOD, RETURN THE PRODUCT IN FREIGHT PREPAID TO OUR FACTORY AND THEY WILL BE CHECKED AND REPAIRED OR REPLACED, ACCORDING TO OUR JUDGEMENT. NO RESPONSIBILITY IS TAKEN BY US FOR DAMAGE CAUSED BY USE OR MISUSE OF OUR PRODUCTS. THE GUARANTEE DOES NOT APPLY WHEN DEFECTS OF ANY KIND ARE DUE TO INAPPROPRIATE INSTALLATION OR NEGLIGENCE BY USER.

S.E.R. SRL RESERVES THE RIGHT TO MAKE MODIFICATIONS ON THE MODELS IN THIS CATALOGUE AT ANY TIME WITHOUT PRIOR NOTICE. AND DECLINES ANY RESPONSABILITY FOR PRINTING ERRORS.



Фирма **SER srl** с удовольствием представляет Вам новую гамму воздушных испарителей и дистанционных конденсаторов. Вы можете выбрать испаритель, удовлетворяющий любым задачам: хранения, замораживания, быстрой заморозки и кондиционирования, с использованием прямого расширения на охлаждающем газе, или, по заказу, на гликоловой воде; с низкой и высокой вентиляцией, всасывающими, нагнетательными и двухскоростными моторами. **По запросу мы можем «сделать контурах охлажденной воды или более» схем и специальных органов.** Все изделия поставляются с внутренней заправкой азотом под давлением приблизительно 3 бар, чтобы гарантировать заказчику отсутствие утечек. Фирма **SER srl** всегда уделяет большое внимание экологии, поэтому она предлагает полностью нетоксичные изделия, пригодные для использования с новыми охлаждающими жидкостями. Применение высококачественного сырья, поступающего от известных производителей, непрестанный поиск передовых инновационных решений и систематический контроль производственного процесса согласно требованиям действующих европейских стандартов являются залогом высокого качества продукции и исключают ущерб для окружающей среды. С 2003, по заказу клиентов, выпускаются воздушные испарители с трубой из нержавеющей стали.

2 ГОДА ГАРАНТИИ

ГАРАНТИЯ РАСПРОСТРАНЯЕТСЯ НА ВСЕ ПРОИЗВОДСТВЕННЫЕ ДЕФЕКТЫ ПРИБОРОВ В ТЕЧЕНИЕ 24 МЕСЯЦЕВ СО ДНЯ ОТПРАВКИ.
ПРИБОР ДОЛЖЕН БЫТЬ ДОСТАВЛЕН НА НАШЕ ПРОИЗВОДСТВЕННОЕ ПРЕДПРИЯТИЕ ЗА СЧЕТ КЛИЕНТА. ГАРАНТИЯ ПРЕДУСМАТРИВАЕТ ТОЛЬКО РЕМОНТ, ИЛИ, ПО ВЫНЕСЕНИИ НАШЕГО ОКОНЧАТЕЛЬНОГО РЕШЕНИЯ, ЗАМЕНУ. ГАРАНТИЯ НЕ РАСПРОСТРАНЯЕТСЯ НА ИЗДЕЛИЯ, ПОВРЕЖДЕННЫЕ В РЕЗУЛЬТАТЕ ДЕЙСТВИЙ НЕКВАЛИФИЦИРОВАННОГО ПЕРСОНАЛА, НЕПРАВИЛЬНОГО ИСПОЛЬЗОВАНИЯ ИЛИ НЕПРАВИЛЬНОЙ УСТАНОВКИ.
SERSRL ОСТАВЛЯЕТ ЗА СОБОЙ ПРАВО ВНОСИТЬ ИЗМЕНЕНИЯ В МОДЕЛИ В ДАННОМ КАТАЛОГЕ, БЕЗ ПРЕДВАРИТЕЛЬНОГО УВЕДОМЛЕНИЯ, И НЕ НЕСЕТ НИКАКОЙ ОТВЕТСТВЕННОСТИ ЗА ЛЮБЫЕ ОПЕЧАТКИ.

CR**14**

Aeroevaporatori ridotti per armadi e piccole celle
 Evaporateur pour armoires et petites chambres à froid
 Unit coolers for cabinets and for small rooms
 Воздушные испарители, уменьшенные для шкафов и небольших камер

VA - VP - VS**17**

Aeroevaporatori per cassetiere e piccoli armadi
 Petit Evaporateur pour chiffonier réfrigérant et petites chambres à froid
 Evaporator for small cabinets
 Воздушные испарители для кассетниц и небольших шкафов

MP**20**

Aeroevaporatori a parete
 Evaporateur de mur
 Wall coolers
 Настенные воздухоохладители

MA**24**

Aeroevaporatori angolari serie commerciale
 Evaporateur angulaires avec dimensions réduites
 Commercial angular ceiling unit coolers
 Угловые воздушные испарители коммерческой серии

TCR**27**

Aeroevaporatori serie commerciale cubici ridotti
 Evaporateur cubique avec dimensions réduites
 Unit coolers with reduced dimensions
 Испарители коммерческой серии кубические уменьшенные

SR**30**

Aeroevaporatori ridotti a doppio flusso d'aria
 Evaporateur à double flux d'air avec dimensions réduites
 Dual discharge unit coolers with reduced dimensions
 Воздушные испарители с двойной циркуляцией воздуха

MD**34**

Aeroevaporatori angolari a doppio flusso d'aria D.315
 Evaporateur angulaires D.315
 Angular ceiling unit cooler D.315
 Воздушные испарители с двойной циркуляцией воздуха

TC/e - TC**37**

Aeroevaporatori cubici commerciali
 Evaporateur commercial cubique
 Cubic commercial unit cooler
 Воздушные испарители с двойной циркуляцией воздуха

TS/e - TS**42**

Aeroevaporatori a doppio flusso d'aria
 Evaporateur à double flux d'air
 Dual discharge unit coolers
 Воздушные испарители с двойной циркуляцией воздуха

TSU**46**

Aeroevaporatori a doppio flusso d'aria
 Evaporateur à double flux d'air
 Dual discharge unit coolers
 Воздушные испарители с двойной циркуляцией воздуха

LA**50**

Aeroevaporatori a doppio flusso d'aria
 Evaporateur à double flux d'air
 Dual discharge unit coolers
 Воздушные испарители с двойной циркуляцией воздуха

ST 35 - ST 40 - ST 45 - ST 50**53**

Aeroevaporatori serie super kompakt
 Evaporateur super compact
 Semi-industrial unit coolers
 Воздушные распылители серии супер компакт

KA 50 - KA 56 - KA 63 - KA 80**59**

Aeroevaporatori serie industriale
 Evaporateur cubique industriel
 Industrial unit coolers
 Воздушные испарители промышленной серии

KD**68**

Aeroevaporatori a doppio flusso serie industriale
 Evaporateur à double flux d'air industriel
 Industrial unit dual discharge unit cooler
 Воздушные испарители промышленной серии с двойной циркуляцией воздуха

EP**71**

Aeroevaporatori a pavimento ad alta capacità
 Evaporateur Blast freezer
 Blast freezer unit coolers
 Воздушные испарители напольные высокопроизводительные

**HBU***Aeroevaporatori cubici per mezzi navali a norme U.S.P.H.S.**Evaporateur cubique pour employ naval U.S.P.H.S.**Cubic ceiling cooler for vessels and boats U.S.P.H.S.**Кубические воздухоохладители для морских судов согласно норме U.S.P.H.S.***WBU***Aeroevaporatori a parete per mezzi navali a norme U.S.P.H.S.**Evaporateur de mur pour employ naval U.S.P.H.S.**Wall cooler for vessels and boats U.S.P.H.S.**Настенные воздухоохладители для морских судов согласно норме U.S.P.H.S.***W***Aeroevaporatori da muro a pavimento ad alta capacità**Evaporateur mur plancher**Blast freezer unit coolers**Воздушные испарители напольные высокопроизводительные***CS***Condensatori ad aria silenziati con vano compressore e accessori insonorizzato**Condenseur à air avec compartiment sourdine**Silenced air condensers with hole for compressor and equipments, completely free of noise**Малошумный конденсатор воздушного охлаждения в кожухе с местом для установки компрессорного агрегата***CV 45***Condensatori remoti serie commerciale per ingombri ridotti**Condenseur à air réduit V**Remote air condensers commercial series with reduced space**Дистанционные конденсаторы коммерчески серии для малых размеров***CF 40***Condensatori remoti serie commerciale**Condenseur à air commercial d.40**Remote air condensers commercial series**Дистанционные конденсаторы коммерческия серия***CF 50 - CF 50x2***Condensatori remoti serie commerciale**Condenseur à air d.50**Remote air condensers**Дистанционные конденсаторы***CF 63 - CF 63x2***Condensatori remoti serie industriale**Condenseur à air d.63**Remote air condensers industrial serie**Дистанционные конденсаторы коммерческия серия***CF 80 - CF 80x2***Condensatori remoti serie industriale**Condenseur à air d.80**Remote air condensers industrial serie**Дистанционные конденсаторы***CAV***Condensatori remoti**Condenseur à air**Remote air condensers**Дистанционные конденсаторы***CAVD***Condensatori remoti**Condenseur à air**Remote air condensers**Дистанционные конденсаторы***DCF 50***Raffreddatori di liquido**Aero Refrigerant**Dry coolers**Сухие градины***DCF 63 - DCF 63x2***Raffreddatori di liquido**Aero Refrigerant**Dry coolers**Сухие градины***DCF 80 - DCF 80x2***Raffreddatori di liquido**Aero Refrigerant**Dry coolers**Сухие градины***DCAV***Raffreddatori di liquido**Aero Refrigerant**Dry coolers**Сухие градины*



SCAMBIATORI DI CALORE:

Gli Aeroevaporatori e Condensatori **S.E.R.** sono dotati di una batteria con geometrie del tubo ad alta efficienza, con alette di alluminio dal profilo con corrugazione speciale, e tubi in rame LWC 99,9% studiati per una ottimale evaporazione e condensazione dei nuovi fluidi refrigeranti, le batterie sono tutte collaudate secondo specifica Direttiva PED 97/23/CE con aria secca in immersione sgrassate e consegnate con una carica di 3 bar d'azoto. Tutte i batterie (ecc.VA/VP-CR) sono predisposte di valvola per controllo della pressione di aspirazione. Per una completa protezione dei tubi, Tutti i condensatori remoti sono costruiti con spalle speciali (flottanti).

SBRINAMENTO:

Per ottenere uno sbrinamento efficiente sulle batterie sono consigliate diverse opzioni in base all'uso dell'evaporatore

2°C sbrinamento ad aria = **SS** - sbrinamento con pioggia ad acqua = **WD** (Solo KA)

0° - 40°C sbrinamento elettrico = **ED o HG** = sbrinamento a gas caldo con resistenza elettrica nella bacinella

RESISTENZE ELETTRICHE:

Le resistenze elettriche di sbrinamento sono in acciaio inox corazzato con terminali vulcanizzati e sono posizionate in modo d'avere uno sbrinamento uniforme e veloce della batteria, sono cablate in scatole di derivazione separate IP55, è disponibile su richiesta resistenza elettrica per convogliatore aria o resistenza a filo per scarico condensa.

MOTOVENTILATORI:

Tutti i modelli sono forniti con motori ad alta efficienza secondo le più aggiornate norme europee, con protezione termica incorporata e cablati in scatole di derivazione IP55, su richiesta si possono fornire con motori **EC** (tecnologia elettronica) che consente una riduzione drastica di consumi elettrici.

GRIGLIE:

Le griglie di protezione sono conformi alle norme di sicurezza EN294 e sono in acciaio verniciato con trattamento epossidico (serie HBU-WBU in inox) (serie CR in poliamide caricato in fibra di vetro).

CARROZZERIA:

La carrozzeria degli evaporatori è realizzata in alluminio preverniciato in polvere epossidica RAL9010 è predisposta per avere una migliore accessibilità su attacchi e cablaggi elettrici, è dotata nei modelli previsti di cerniere per una apertura agevolata dello sgocciolatoio, tutti gli aeroevaporatori sono dotati di doppia bacinella in alluminio, inoltre è resistente alle basse temperature atossica e infrangibile e totalmente riciclabile.

La carrozzeria dei condensatori remoti è in acciaio zincato preverniciato in polvere epossidica RAL9002

La viteria usata per gli aeroevaporatori ed i condensatori è totalmente in acciaio inox e alluminio.

IMBALLO:

Tutti gli evaporatori e condensatori remoti sono imballati singolarmente in cartoni con opportuni rinforzi o gabbie di legno con polietilene termoretraibile, accompagnati da Manuale di installazione uso e manutenzione-Attestato di controllo- Certificazione CE- e Garanzia.(L'imballo dei prodotti è riciclabile(Resy)

VARIANTI COSTRUTTIVE:

- Disponibile versione con batteria per circuitazione Glicole-NH3-CO2
- Doppie circuitazioni o circuitazioni speciali
- Tubi in acciaio Inox
- Alette in CU-Rame
- Passo alette speciali
- Trattamento Cataforesi o verniciatura epossidica
- Carrozzeria in acciaio Inox
- Bacinelle di raccolta condensa isolate
- Versione per montaggio a pavimento (KA)
- Motori EC (tecnologia elettronica)
- Motori ATEX (antideflagranti)
- Resistenze elettriche per i boccagli (solo KA-EP)
- Doppie resistenze di sbrinamento
- Resistenza a filo per scarico condensa
- Progettazioni speciali (su richiesta)

SISTEMA DI QUALITÀ'

La **SER** ha ottenuto il sistema di Qualità che include anche le procedure riguardanti la progettazione i sistemi di produzione ed il controllo della qualità ottenendo la certificazione **UNI EN ISO 9001:2015**.



HEAT EXCHANGER

Evaporators and Condensers S.E.R. have high-efficiency coils, with a special wrinkled profile aluminium fins, and copper tubes LWC 99,9 %, studied for the best evaporation and condensation of the new refrigerant fluids. The coils are all tested following Dir. PED 97/23/CE, at appropriate pressure, with dry air immersion and delivered with a charge 3 bar azote. All the heat exchangers (with exception of mod. VS, VP, VS, CR) are prepared for the suction control. For the completely protection of the tubes, all the remote Condensers are manufactured with floating coils.

DEFROST

To obtain an efficient defrost on the coils we offer different options on the base of the use of the Evaporator.

2°C air defrost = **SS**; water defrost = **WD** (only for Ka model);

0°C / -40°C electric defrost = **ED** or **HG** = hot gas defrost with electric heater on the drain tray.

ELECTRIC HEATERS

Stainless steel electric heaters for defrost are placed to get the best and quickest defrost performances, are in separate connection boxes IP55; on demand it is possible to get the electric heater for the drain tray and the fan guards.

FAN MOTORS

All the Heat exchangers are supplied with high-efficiency fan motors on the base of the new European rules, with internal thermal protection and wired in connection boxes IP55, on demand it is possible to have the **EC** (electronic technology) fan motors, with reduced electrical consumption.

FAN GUARDS

Fan guards comply the most severe safety standards, to guarantee maximum protection(EN294), are in painted steel, with epoxy treatment. For mod. HBU, WBU stainless steel, and in polyamide for CR model.

CASING

The body of the evaporators is in aluminium, with epoxy-polyester powder coating RAL 9010. All the evaporators have a double drain tray, nontoxic and recycled completely.

The body of the condensers is in galvanized steel with epoxy-polyester powder coating RAL9002.

Screws are in stainless steel and aluminium only.

PACKING

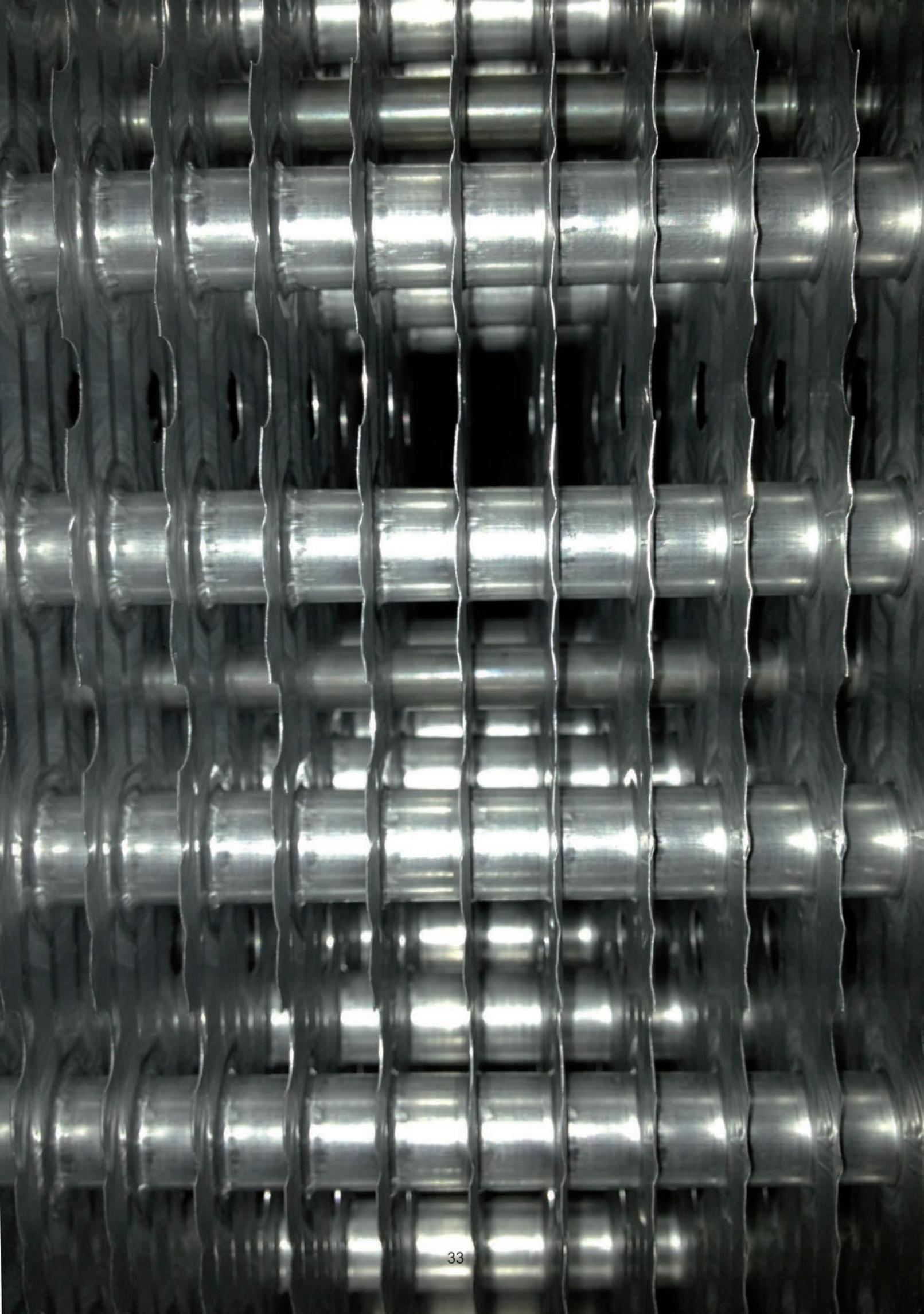
All Evaporators and condensers are single packed in reinforced cartons or wooden cage with Polyethylene shrink wrap; the goods are delivered together with Instruction Use Manual, declaration of Conformity CE, Guarantee. All the employed materials are completely recycled (Resy)

CONSTRUCTION VARIANT

- glycol coil – NH3-CO2
- special circuits or double circuits
- stainless steel tubes
- CU-copper fins
- coils with epoxy paint or with cataphoresis treatment
- stainless steel casing
- version for floor installed evaporators(KA)
- electronic technology fan motors(EC)
- ATEX fan motors(explosion proof)
- Electric heaters for fan mouth (KA, EP)
- double electric defrost heaters
- heater in the drain tray
- special projects (on demand)

QUALITY SYSTEM

SER SRL obtained Quality system that includes the procedures regarding the development, production methods and quality control, with Certificate **UNI EN ISO 9001:2015**.



Temperature di conservazione in celle frigorifere
Table of temperature and cold storage

Таблица температура хранения

Prodotti / Products / Продукция:	Temp. C° Freschi / Fresh Свежий	Umidità Humidity Влажность	Temp. C°	
			Congelamento Frozen / Замораживание	Conservazione Conservation Сохранение
		%	Congelamento Frozen Замораживание	Conservazione Conservation Сохранение
Burro / Butter / Масло	0°	80/85	-25°	-18°
Latte / Milk / Молоко	+0,5°	85/90		
Prodotti caseari / Dairy products / Молочные продукты	+4°	varies		
Carni rosse / Red meat / Красное мясо	-1° 0°	85/90	-25°	-15°
Carni bianche / White meat / Белое мясо	-1° 0°	90	-25°	-18°
Carni ovine / Lamb / Баранины	-1° 0°	85/90	-24°	-18°
Pollame / Poultry / Птица	0°	85/90	-24°	-18°
Maiale / Pork / Свинина	-1,5°- 1°	85/90	-25°	-18°
Selvaggina / Game / Игра	-1°	85/90	-25°	-18°
Salumi freschi / Fresh sausages / Свежее мясо	-1°+ 2°	80		
Pesce fresco / Fresh fish / Свежая рыба	-1,5°- 0°	90	-25°-30°	-18°
Pesce affumicato / Smoked fish / Копченая рыба	+4°+10°	50/60		
Ostriche / Oysters / Устрицы	0°+ 2°	85/90		
Crostacei / Crustaceans / Ракообразные	+0,5°	90/95	-25°	-18°
Verdura / Vegetable / Овощной	0°	90/95		
Patate / Potatos / Картофель	+4°+ 10°	85/90		
Fagioli / Beans / Фасоль	+4°+7°	85/90		
Cipolle / Onions / Лук	-3° 0°	70/75		
Pomodori / Tomatoes / Помидоры	+7 °+ 10°	85/90		
Verdura congelata / Frozen vegetable / Замороженные овощи			-25°-30°	-18°
Funghi / Mushrooms / Грибы	0°+ 1°	85/90		
Fiori recisi / Cut flowers / Срезанные цветы	-0,5°+ 4,5°	80/85		
Frutta / Fruit / Фрукты	-1°+ 2°	85/90		
Frutti di bosco / Soft fruits / Мягкие фрукты	+2°	90		
Ananas / Ananas / Ананас	+7°	85/90		
Banane / Bananas / Бананы	+14°+ 16°	90		
Limoni / Lemons / Лимоны	+9° + 10°	85/90		
Mango / Mango / Манго	+10°	90		
Pere / Pears / Груши	-1° 0°	85/90		
Meloni / Melons / Дыни	+4°+ 10°	85/90		
Uva / Grapes / Виноград	-1° 0°	85/90		
Fichi / Figs / Инжир	-2°	90		
Mandarini / Tangerines / Мандарины	+4°+ 7°	85/90		
Frutta congelata / Frozen fruit / Свежезамороженные фрукты			-25°-30°	-18°
Dolciumi/Confectionery / Кондитерские изделия				-18°
Gelato / Ice cream / Мороженое			-30°	-25°
Margarina / Margarine / Маргарин	+1,5°+ 2°	60/70		
Farina / Flour / Мука	0°		
Birra / Beer / Пиво	+1,5°+ 4°		
Vino / Wine / Вино	+7°+10°		
Lievito / Yeast / Дрожжи	0,5°+1°		
Uova / Eggs / Яйца	-1° 0°	85/90		
Pellicce / Fur / Меха	+1°+ 4°	45/55		
Pelli da concia/Leather tanning / Дубление кожи				-12°-18°
Pane / Bread / Хлеб			-18°-30°	-18°

Tabella di selezione aeroevaporatori / Evaporator selection



Le potenze degli aeroevaporatori sono provate secondo le norme ENV 328.

Refrigerante: R404A

Temperatura ingresso aria: 0°C

Temperatura di evaporazione : -8°C=Dt8K

Esempio di Selezione:

Ricerca di un modello TC in funzione della potenza richiesta:

- Pr = Potenza richiesta = KW 7

- Temperatura Cella = 2°C

- Dt = 7 K

- Refrigerante = R134A

- Modello selezionato = **TCH 5**

$$\frac{\text{Pr}}{\text{Fc1} \times \text{Fc2}} = \frac{7}{0,94 \times 0,92} = \frac{\text{Capacity}}{\text{ }} = \frac{8,1 \text{ KW}}{\text{ }} = \text{TCH 5}$$

Ricerca della capacità di un Evaporatore alle diverse condizioni di utilizzo:

- Modello selezionato: **TCL 6**

- Temperatura ingresso aria -25°C

- Dt 7K

- Refrigerante R507A

Nominal capacity x Fc1 x Fc2 = $7,4 \times 0,77 \times 0,97 = 5,5 \text{ KW}$



Evaporators performances are tested in accordance with ENV 328.

Refrigerant Fluid: R404A

Air entering temperature: 0°C

Evaporating temperature : -8°C=Dt8K

Selection example:

to find TC model based on requested capacity:

- Pr = requested capacity = KW 7

- cold room temperature = 2°C

- Dt = 7 K

- refrigerant = R134A

- selected model = **TCH 5**

$$\frac{\text{Pr}}{\text{Fc1} \times \text{Fc2}} = \frac{7}{0,94 \times 0,92} = \frac{\text{Capacity}}{\text{ }} = \frac{8,1 \text{ KW}}{\text{ }} = \text{TCH 5}$$

To find an Evaporator capacity with different use condition:

- selected model: **TCL 6**

- inlet air temperature -25°C

- Dt 7K

- refrigerant: R507A

Nominal capacity x Fc1 x Fc2 = $7,4 \times 0,77 \times 0,97 = 5,5 \text{ KW}$

Tabella di selezione aeroevaporatori /
Unit coolers selection list / Таблица подбора воздушных испарителей

FC 1: fattore di correzione della capacita' nominale KW (R404A) per diverse temperature di cella e ΔT

FC 1: nominal capacity correction factor for different temperatures in cool room and ΔT

FC 1: коэффициент коррекции номинальной производительности КВ (R404A) для различных температур в камере и ΔT

FC 1:

$\Delta T(K)^*$	10	1,09	1,09	1,1	1,13	1,16	1,19	1,22	1,25	1,29	1,34	1,38	1,42	1,47	1,47	1,47	1,47
9	0,98	0,98	0,99	1,02	1,05	1,07	1,1	1,13	1,16	1,2	1,24	1,28	1,32	1,32	1,32	1,32	1,32
8	0,87	0,87	0,87	0,9	0,93	0,95	0,98	1	1,04	1,07	1,1	1,14	1,17	1,17	1,17	1,17	1,17
7	0,76	0,76	0,77	0,79	0,81	0,83	0,85	0,88	0,91	0,94	0,97	1	1,03	1,03	1,03	1,03	1,03
6	0,65	0,65	0,66	0,68	0,7	0,71	0,73	0,75	0,78	0,8	0,83	0,85	0,88	0,88	0,88	0,88	0,88
5	0,54	0,54	0,55	0,57	0,58	0,6	0,61	0,63	0,65	0,67	0,69	0,71	0,73	0,73	0,73	0,73	0,73
4	0,44	0,44	0,44	0,45	0,46	0,48	0,49	0,5	0,52	0,54	0,55	0,57	0,59	0,59	0,59	0,59	0,59
	-35	-30	-25	-20	-15	-10	-5	0	1	2	3	4	5	6	8	10	12

FC 2: fattore di correzione per fluidi refrigeranti

FC 2: correction factor for refrigerant fluids

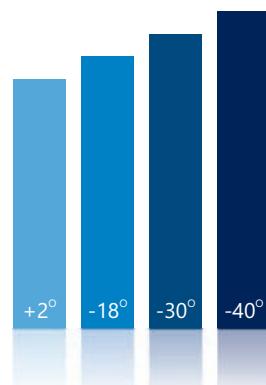
FC 2: коэффициент коррекции для охлаждающих жидкостей

FC 2:

T. room C°	-35	-30	-25	-20	-15	-10	-5	0	1	2	3	4	5	6	8	10	12
R404A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R134A					0,86	0,88	0,89	0,91	0,91	0,92	0,92	0,92	0,92	0,92	0,93	0,93	0,93
R507A	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97
R407F	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03	1,03
R448A	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96
R449A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R452A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CO2 R744	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09

Legenda / Legend / Легенда

ΔT	Differenza tra la temperatura ingresso aria nell'evapor. E temperatura evaporazione del refrigerante
Δ^*T	Temperature difference between air inlet temp. In the cooler and refrigerant evaporating temperature
Δ^*T	Разница между температурой воздуха, поступающего в испаритель, и температурой испарения хладагента



*Aeroevaporatori ridotti per armadi e piccole celle
Evaporateur pour armoires et petites chambres à froid
Unit coolers for cabinets and for small rooms
Воздушные испарители, уменьшенные для шкафов и небольших камер*



Il **MOD. CR** è un evaporatore ridotto, studiato per applicazioni in piccole celle frigorifere, armadi frigoriferi e vetrine refrigerate. La serie **CR** è consigliata per la conservazione di prodotto fresco e congelato, il passo delle alette è differenziato mm. 4,5/9. **CR - SS** = versione senza sbrinamento (consigliato fina 2°C) **CR bt** = è adatto per conservazione prodotto surgelato, il passo delle alette è differenziato mm 5,5/11 **CR-CRbt ED** = versione con sbrinamento elettrico (consigliato fino a -18°C) predisposti per il collegamento 230v /1/50-60hz. **CR/P** = versione per il montaggio a parete, con sgocciolatoio fornito a parte.



Le **MOD. CR** est un petit Evaporateur, étudié pour petites chambres à froid et armoires. La série **CR** est pour la conservation du produit frais et congelé, double écartement ailettes mm. 4,5/mm. 9. **CR - SS** = sans dégivrage (jusqu'à 2°C) **CR bt** = pour la conservation du produit surgelé, double écartement ailettes mm 5,5/mm.11 **CR-CRbt ED** = avec dégivrage électrique (jusqu'à -18°C) predisposition pour la connexion 230v /1/50-60hz. **CR/P** = version pour le mur, avec égouttoir livré à part.



The **MOD. CR** is a cooler with reduced dimensions, for cabinets and small cold rooms, for fresh and frozen product storage, dual fin spacing mm.4,5/9. **CR - SS** = without defrost (recommended till 2 °C) **CR bt** = for freezing and frozen products storage, dual fin spacing mm 5,5/11 **CR-CRbt ED** = with electrical defrost (recommended till -18°C), arranged for the connection 230v/1/50-60hz. **CR/P** = wall mounting version, with drain tray supplied separated.



CR является уменьшенным испарителем, предназначенным для использования в небольших холодильных камерах, холодильных шкафах и охлаждаемых витринах. Серия **CR** рекомендуется для хранения свежих и замороженных продуктов, шаг лопастей в пределах 4,5/9 мм. **CR - SS** = вариант без размораживания (рекомендуется до 2°C) **CR bt** = Рекомендован для замораживания и хранения свежих и быстрозамороженных продуктов, шаг лопастей 5,5/11 мм. **CR-CRbt ED** = вариант с электрическим размораживанием (рекомендуется до -18°C), с для сети 230в /1/50-60Гц. **CR/P** = вариант для настенной сборки, с отдельно поставляемым стоком.

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
CR	10°C +2°C	mm 4,5/9
CR bt	+2°C -18°C	mm 5,5/11



ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

CR 1	1x200	0.35	280	4	1.6	0.4	33	0.2	250	10-10	16	4
CR 2	1x200	0.39	270	4	2.4	0.6	33	0.2	250	10-10	16	4.3
CR 3	1x200	0.46	270	4	3.2	0.8	33	0.2	350	10-10	16	5.2
CR 4	2x200	1.04	450	4	4.5	1.1	66	0.4	500	10-10	16	7.8
CR 5*	2x200	1.1	540	4	6.1	1.4	66	0.4	700	12-16	16	9.2
CR 6*	3x200	1.39	800	4	8.9	2	99	0.6	900	12-16	16	13.3
CR 7*	4x200	1.75	1010	4	11	2.4	132	0.8	1080	12-16	16	15.8

CR bt 1	1x200	0.3	280	4	1.4	0.4	33	0.2	250	10-10	16	3.8
CR bt 2	1x200	0.33	270	4	2	0.6	33	0.2	250	10-10	16	4.1
CR bt 3	1x200	0.4	270	4	2.8	0.8	33	0.2	350	10-10	16	4.9
CR bt 4	2x200	0.9	450	4	3.9	1.1	66	0.4	500	10-10	16	7.4
CR bt 5*	2x200	0.96	540	4	5.3	1.4	66	0.4	700	12-16	16	8.8
CR bt 6*	3x200	1.2	800	4	7.7	2	99	0.6	900	12-16	16	12.8
CR bt 7*	4x200	1.5	1010	4	9.6	2.4	132	0.8	1080	12-16	16	15.2



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

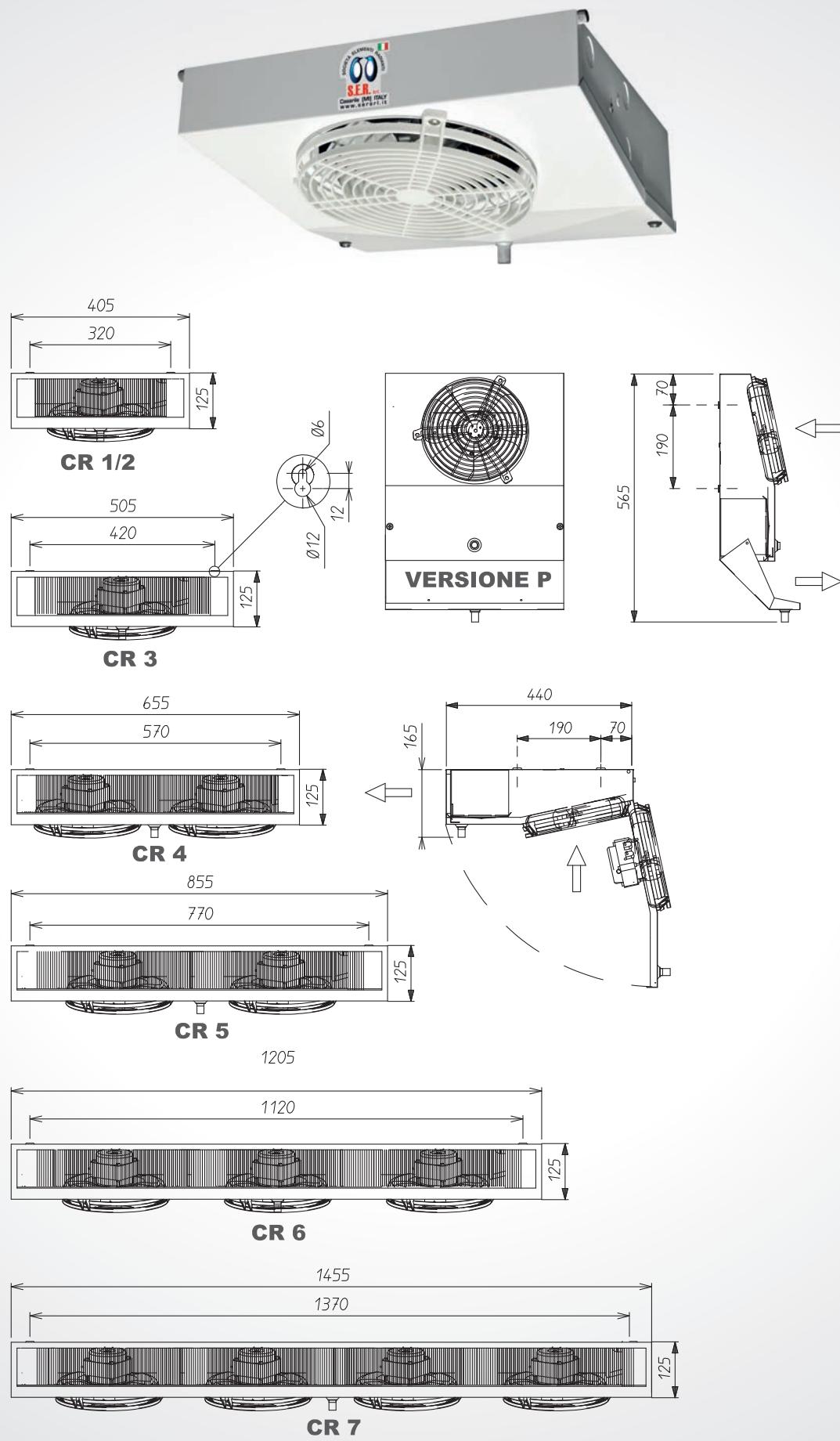
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

Real capacities whith following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8° C = DT8K

* usare valvola termostatica con equalizzatore esterno

*use externally equalized thermostatic expansion valve



Aeroevaporatori per cassetriere e piccoli armadi

Petit Evaporateur pour chiffonier réfrigérant et petites chambres à froid

Evaporator for small cabinets

Воздушные испарители для кассетниц и небольших шкафов



VA-VP-VS è un aeroevaporatore di piccole dimensioni, con uno spessore molto sottile. È adatto per cassettere, sottobanchi e armadi refrigerati. Il passo delle alette è di mm. 5,5. È disponibile in 3 versioni: **VA** = versione centrale a doppio flusso d'aria **VP** = versione a parete **VS** = versione a soffitto. Motori Ø 110 mm. 230v/1/50-60 hz



VA-VP-VS est un évaporateur de petites dimensions avec petit épaisseur. Il est recommandé pour chiffoniers, pour armoires réfrigérées et petite chambre à froid. Ecartement ailettes mm. 5,5. Il y a 3 versions: **VA** = version centrale à double flux d'air, **VP** = version murale **VS** = version à plafond. Moteurs Ø 110 mm. 230v/1/50-60hz



VA-VP-VS with small dimensions, with a very thin thickness. It is suitable for small cabinets, refrigerated furniture's. Fin spacing mm. 5,5 it is available in 3 versions: **VA** = central mounted with double air flow **VP** = wall mounted **VS** = ceiling mounted Motor Ø 110 mm. 230v/1/50-60 hz



VA-VP-VS - это испаритель небольшого размера и очень малой толщины, он предназначен для кассетных шкафов, прилавков и охлаждаемых шкафов. Шаг лопастей 5,5 мм, имеется 3 варианта: **VA** = центральный с двойной циркуляцией воздуха **VP** = настенный **VS** = потолочный. Моторов Ø 110 мм 230в/1/50-60 Гц

VA - VP - VS

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
VA-VP-VS	10°C +2°C	mm 5,5



ITALY UNITED KINGDOM	Motori	DT1=8K	Aria	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Refrig.	Scarico	Peso
MODEL	Motor	KW	Air	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
	N°Xd.	R404A	m³/h	m²	dm³	W	A	ED W	mm	D.mm	Kg

VA 1	2x110	0.46	190	2.2	0.4	0.4	0.24	300	10-10	16	4.5
VA 2	2x110	0.55	170	4.4	0.4	0.4	0.24	300	10-10	16	8.5
VP 1	1x110	0.28	95	2.2	0.8	0.2	0.12	300	10-10	16	4.5
VP 2	2x110	0.46	190	2.2	1.1	0.4	0.24	300	10-10	16	4.5
VP 3	2x110	0.55	170	4.4	1.4	0.4	0.24	300	10-10	16	8.5
VS 1	1x110	0.28	95	2.2	2	0.2	0.12	300	10-10	16	4.5
VS 2	2x110	0.46	190	2.2	2.4	0.4	0.24	300	10-10	16	4.5
VS 3	2x110	0.55	170	4.4	2.4	0.4	0.24	300	10-10	16	8.5



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO



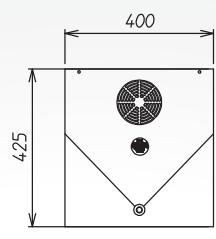
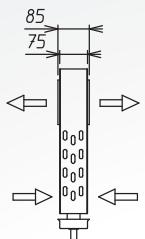
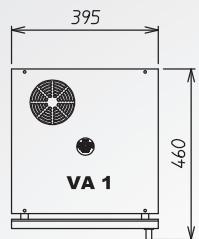
ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

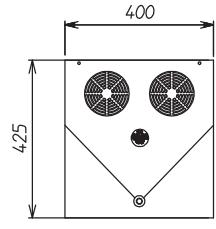
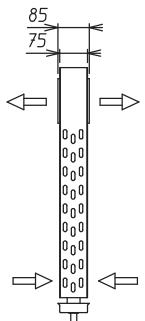
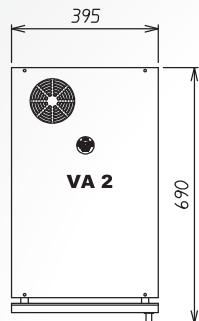
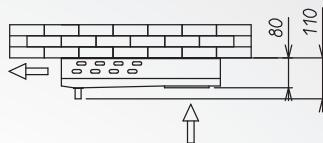
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

Real capacities whith following use conditions:

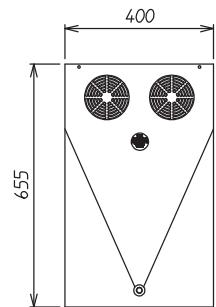
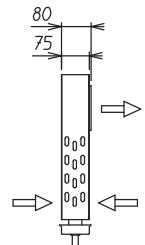
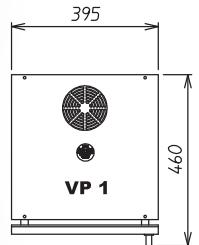
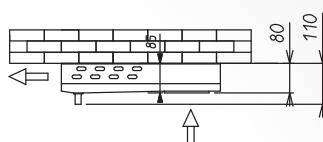
Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8° C = DT8K



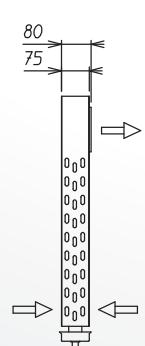
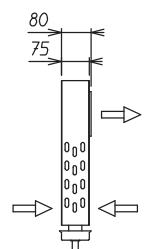
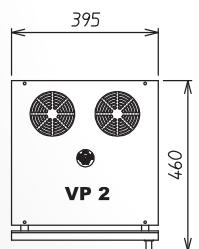
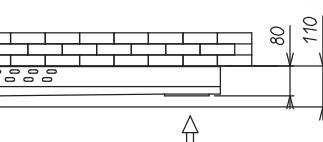
VS 1



VS 2



VS 3



Aeroevaporatori a parete

Evaporateur de mur

Wall coolers

Настенные воздухоохладители



Il **Mod. MP** è un aeroevaporatore a parete per celle frigorifere commerciali. Questo Evaporatore è adatto sia per la conservazione del prodotto fresco, sia per il congelamento o per la conservazione del prodotto surgelato. **MPH** = il passo delle alette è 4 mm **MP** = il passo delle alette è 5,5 mm. I motori del **Mod. MP** sono Ø 250 mm 230V- 1/50/60hz..**MP - SS** = versione senza sbrinamento elettrico (consigliato fino a 2°C). **MP - ED** = versione con sbrinamento elettrico (consigliato fino a -18°C) predisposti per il collegamento 230v 1/50-60hz.



Le **Mod. MP** est un évaporateur au mur pour chambre à froid, étudié pour chambre à froid commerciales. Cet évaporateur est: soit pour la conservation des produits frais que pour la congélation ou la conservation des produits congelés. **MPH** = écartement ailettes 4 mm **MP** = écartement ailettes 5,5 mm. Les moteurs du **Mod. MP** sont Ø 250 mm 230V- 1/50/60hz. **WBU - SS** = version sans dégivrage (recommandé jusqu'au 2°C). **WBU - ED** = version avec dégivrage électrique (recommandé jusqu'à -18°C), predisposition pour la connexion 230v 1/50-60hz.



The **MP MODELS** studied for commercial cold rooms with reduced space, for fresh and frozen product storage. The **MOD. MP** is used for fresh products storage, for freezing or frozen storage products. **MPH** = fin spacing is 4 mm **MP** = fin spacing is 5,5 mm . Fan motors are Ø 250 mm 230V, 1/50/60hz.**WBU - SS** = without defrost (recommended till 2 °C) **WBU - ED** = with electrical defrost (Recommended till -18°) Arranged for the connection 230V 1/50-60hz.



MP - это настенный воздушный испаритель для холодильных камер, предназначенный для использования на водном транспорте. **MPH** = Шаг лопастей 4 мм. **MP** = Шаг лопастей 5,5мм. Двигатели **МОДЕЛИ MP** имеют Ø 250 мм 230в-1/50/60гц. **MP - SS** = вариант без электрического размораживания (рекомендуется до 2°C). **MP - ED** = вариант с электрическим размораживанием (рекомендуется до -18°C).

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
MPH	10°C +2°C	mm 4
MP	2°C -18°C	mm 5,5



()	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
()	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

MPH 1	1x250	0,9	800	3	2,4	0,6	70	0,43	300	12-12	30	7
MPH 2*	2x250	1,8	1600	3	4,8	1,2	140	0,86	600	12-16	30	13
MPH 3*	3x250	2,7	2400	3	7,2	1,8	210	1,29	900	12-16	30	20
MPH 4*	4x250	3,6	3200	3	9,6	2,4	290	1,72	1200	12-16	30	27

MP 1	1x250	0,7	800	3,3	1,9	0,6	70	0,43	300	12-12	30	7
MP 2*	2x250	1,4	1600	3,3	3,8	1,2	140	0,86	600	12-16	30	13
MP 3*	3x250	2,1	2400	3,3	5,7	1,8	210	1,29	900	12-16	30	20
MP 4*	4x250	2,8	3200	3,3	7,6	2,4	290	1,72	1200	12-16	30	27



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO



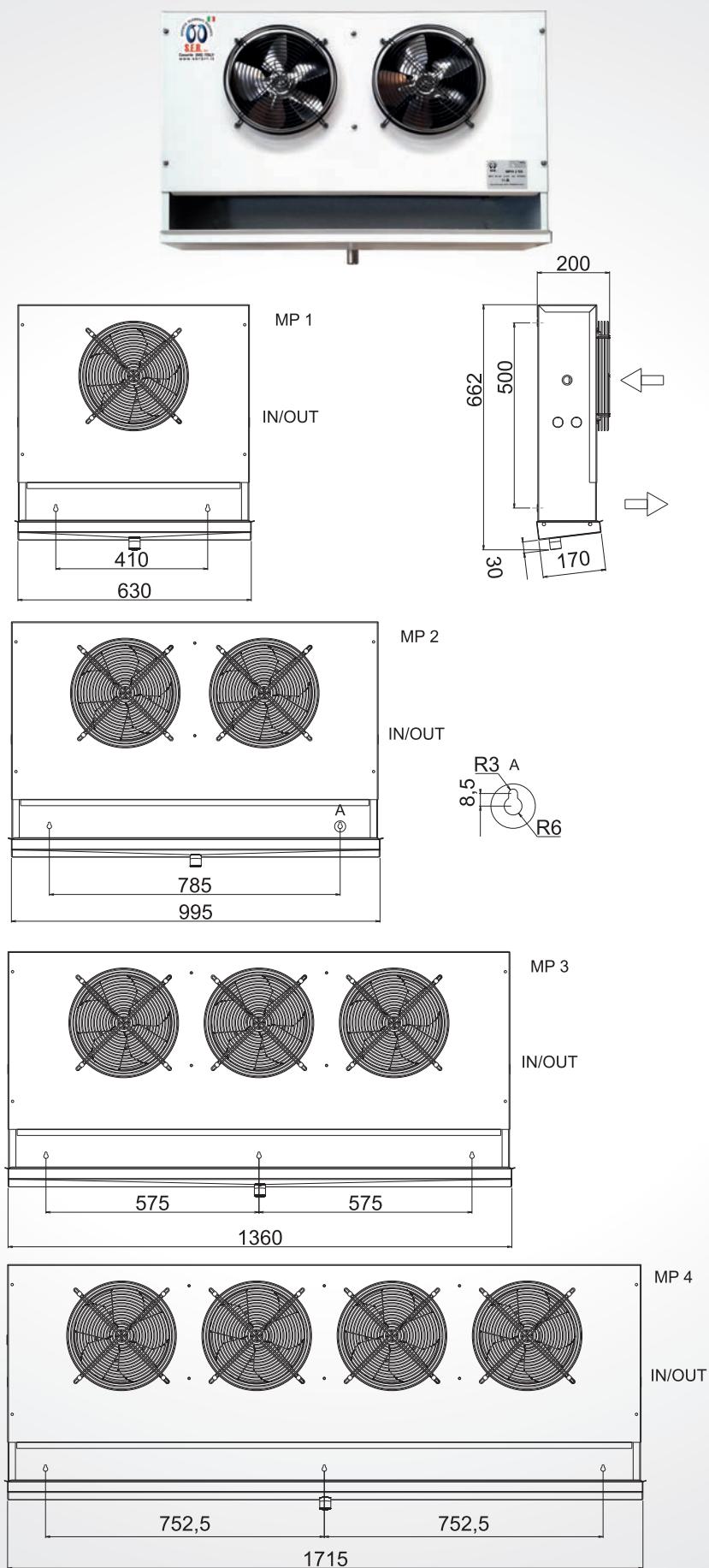
ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

Real capacities whith following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8° C = DT8K





Aeroevaporatori angolari serie commerciale
Evaporateur angulaires avec dimensions reduites
Commercial angular ceiling unit coolers
Угловые воздушные испарители коммерческой серии



Il **Mod. MA** è un evaporatore angolare ridotto studiato per applicazioni in celle frigorifere commerciali, dove lo spazio è ridotto. **MAH** è adatto per conservazione di prodotto fresco, passo alette 4 mm. **MA** è adatto per la conservazione del prodotto fresco e congelato, passo alette mm. 5,5. **MAbt** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 11. **MA-SS** = versione senza sbrinamento (consigliato fino a 2°C). **MA/MAbt-ED** = versione con sbrinamento elettrico (consigliato fino a -40°C) predisposti per il collegamento: Mod. **MA** 230V 1/50-60hz; Mod. **MAbt** 400V 3/50-60hz. Motori Ø 250mm. 230v/1/50-60hz.



Le **Mod. MA** est un évaporateur angulaire pour chambre à froid commerciales. **MAH** est pour la conservation du produit frais, écartement ailettes 4 mm. **MA** est pour la conservation du produit frais et congelé, écartement ailettes mm. 5,5. **MAbt** est pour la congélation et la conservation du produit surgelé, écartement ailettes mm. 11. **MA-SS** = sans dégivrage (jusqu'à 2°C). **MA/MAbt-ED** = avec dégivrage électrique (jusqu'à -40°C) préparés pour la connexion: Mod. **MA** 230V 1/50-60hz; Mod. **MAbt** 400V 3/50-60hz. Moteurs Ø 250mm. 230v/1/50-60hz.



Commercial angular ceiling cooler, studied for commercial cold rooms with reduced space, for fresh and frozen product storage. **MAH** is suitable for preservation of fresh product, fin spacing mm. 5.50. **MA - SS** = without defrost (recommended till 2°C). **MAbt** for freezing and frozen product storage, fin spacing mm. 11. **MA/MAbt-ED** = with electrical defrost(recommended till 40°C) arranged for the connection: Mod. **MA** 230V 1/50-60hz; Mod. **MAbt** 400V 3/50-60HZ. Motors Ø 250mm, 230v/1/50-60hz.



MA - угловой испаритель уменьшенный, предназначенный для использования в коммерческих холодильных камерах небольшого размера. **МАН** подходит для хранения свежих продуктов, мм расстояние между ребрами 4 мм. **МА** Рекомендован для хранения свежих и замороженных продуктов, шаг лопастей 5,50 мм. **МА - SS** = вариант без размораживания (рекомендуется до 2°C). **MAbt** Рекомендован для замораживания и хранения свежих и быстрозамороженных продуктов, шаг лопастей 11 мм. **MA/MAbt-ED** = вариант с электрическим размораживанием (рекомендуется до -40°C), для сети **MA** 230в /1/50-60Гц. Для сети **MAbt** 400в/1/50-60 Гц. Моторы Ø 250мм. 230в/1/50-60 Гц

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
MAH	10°C +2°C	mm 4
MA	10°C -18°C	mm 5,5
MAbt	0°C -40°C	mm 11



IT	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

MAH 1	1x250	1.3	800	6	3.5	0.77	70	0.43	600	10-10	30	6
MAH 2	1x250	1.45	800	6	4.3	0.9	70	0.43	600	10-10	30	6.5
MAH 3*	2x250	2.6	1600	6	7	1.5	140	0.86	1200	12-16	30	11
MAH 4*	2x250	2.9	1600	6	8.6	1.8	140	0.86	1200	12-22	30	12
MAH 5*	3x250	3.9	2400	6	10.5	2.2	210	1.29	1800	12-22	30	17
MAH 6*	3x250	4.35	2400	6	12.9	2.7	210	1.29	1800	12-22	30	18
MAH 7*	4x250	5.2	3200	6	14	3.5	280	1.72	2400	12-22	30	21
MAH 8*	4x250	5.8	3200	6	17.2	4.4	280	1.72	2400	12-22	30	23

MA 1	1x250	1	800	6	2.9	0.77	70	0.43	600	10-10	30	6
MA 2	1x250	1.1	800	6	3.5	0.9	70	0.43	600	10-10	30	6.5
MA 3*	2x250	1.9	1600	6	5.5	1.5	140	0.86	1200	12-16	30	11
MA 4*	2x250	2.3	1600	6	6.9	1.8	140	0.86	1200	12-22	30	12
MA 5*	3x250	2.9	2400	6	8	2.2	210	1.29	1800	12-22	30	17
MA 6*	3x250	3.4	2400	6	10	2.7	210	1.29	1800	12-22	30	18
MA 7*	4x250	3.9	3200	6	11	3.5	280	1.72	2400	12-22	30	21
MA 8*	4x250	4.5	3200	6	14	4.4	280	1.72	2400	12-22	30	23

MA bt 1	1x250	0.7	850	7	1.8	0.77	70	0.43	900	12-12	30	6
MA bt 2	1x250	0.9	850	7	2.4	0.9	70	0.43	900	12-12	30	6.5
MA bt 3*	2x250	1.4	1700	7	3.6	1.5	140	0.86	1800	12-16	30	11
MA bt 4*	2x250	1.8	1700	7	4.8	1.8	140	0.86	1800	12-22	30	12
MA bt 5*	3x250	2.1	2550	7	5.3	2.2	210	1.29	2700	12-22	30	17
MA bt 6*	3x250	2.7	2550	7	7	2.7	210	1.29	2700	12-22	30	18
MA bt 7*	4x250	3.2	3400	7	9.2	3.5	280	1.72	3600	12-22	30	21
MA bt 8*	4x250	4	3400	7	11.5	4.4	280	1.72	3600	12-22	30	23



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

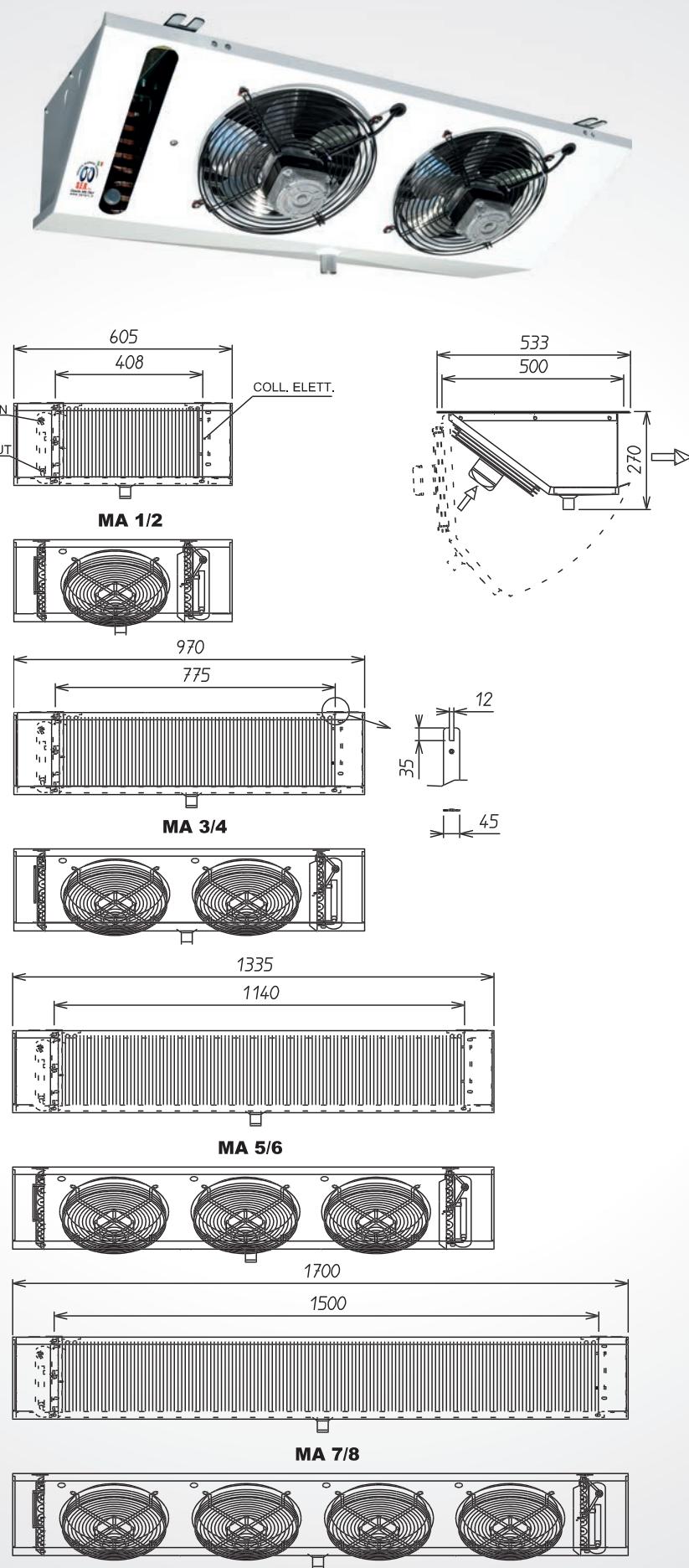
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

Real capacities with following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8°C = DT8K

*usare valvola termostatica con equalizzatore esterno

*use externally equalized thermostatic expansion valve



Aeroevaporatori serie commerciale cubici ridotti

Evaporateur cubique avec dimensions réduites

Unit coolers with reduced dimensions

Испарители коммерческой серии кубические уменьшенные



Il Mod. **TCR** è un evaporatore cubico molto compatto studiato per applicazioni in celle frigorifere commerciali, dove lo spazio è ridotto. **TCRH** è consigliato per la conservazione del prodotto fresco, passo alette 4.mm. **TCR** è consigliato per la conservazione del prodotto fresco e congelato, passo alette mm. 5,5. **TCRbt** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 11. **TCR-SS** = versione senza sbrinamento (consigliato fino a 2°C). **TCR ED - TCRbt ED** = versione con sbrinamento elettrico (consigliato fino a -40°C) predisposti per il collegamento 400V/3/50-60HZ. Motori ø 250mm 230v/1/50-60 hz.



Le Mod. **TCR** est un évaporateur cubique compact, pour chambres à froid commerciales, où il y a peu place. **TCRH** est pour la conservation du produit frais, écartement ailettes 4.mm. **TCR** est pour la conservation du produit frais et congelé, écartement ailettes mm. 5,5. **TCRbt** est pour la congélation et conservation du produit surgelé, écartement ailettes mm. 11. **TCR-SS** = sans dégivrage (recommandé jusqu'à 2°C). **TCR ED - TCRbt ED** = avec dégivrage électrique (recommandé jusqu'à -40°C) prédisposition pour la connexion 400V/3/50-60HZ. Moteurs ø 250mm 230v/1/50-60hz.



Cubic cooler, studied for commercial cold rooms with reduced space, **TCRH** is recommended for the storage of fresh produce, fin spacing 4.mm. **TCR** is recommended for fresh and frozen product storage, fin spacing mm. 5.50. **TCRbt** for freezing and frozen product storage, fin spacing mm. 11. **TCR - SS** = without defrost (recommended till 2 °C). **TCR ED - TCRbt ED** = with electrical defrost (recommended till -40°C) arranged for the connection 400V/3/50-60HZ. Motors ø 250mm, 230v/1/50-60hz.



Корень испаритель, изучал для коммерческих холодильных камер с уменьшенным пространством. **TCRH** рекомендуется для хранения свежих продуктов, 4.mm расстояние между ребрами. **TCR** - в высшей степени компактный кубический испаритель, предназначенный для использования в коммерческих холодильных камерах небольшого размера. Рекомендован для хранения свежих и замороженных продуктов, шаг лопастей 5,50 мм. **TCR - SS** = вариант без размораживания (рекомендуется до 2°C). **TCRbt** = Рекомендован для замораживания и хранения свежих и быстрозамороженных продуктов, шаг лопастей 11 мм. **TCR ED - TCRbt ED** = вариант с электрическим размораживанием (рекомендуется до -40°C) для сети 400В/3/50-60Гц. Моторы ø 250мм. 230в/1/50-60 Гц.

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
TCRH	10°C +2°C	mm 4
TCR	10°C -18°C	mm 5,5
TCRbt	0°C -40°C	mm 11



ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

TCRH 1	1x250	1.6	850	6	4.4	1.05	70	0.43	900	12-12	30	8
TCRH 2	1x250	1.8	800	6	5.4	1.25	70	0.43	900	12-12	30	8.5
TCRH 3*	2x250	3.2	1700	6	8.4	2.03	140	0.86	1800	12-22	30	13.5
TCRH 4*	2x250	3.6	1600	6	10.8	2.5	140	0.86	1800	12-22	30	14.5
TCRH 5*	3x250	4.8	2550	6	13.2	3.1	210	1.29	2700	12-22	30	19.5
TCRH 6*	3x250	5.4	2500	6	16.2	3.7	210	1.29	2700	12-22	30	21
TCRH 7*	4x250	7.2	3400	6	21.6	4.9	280	1.72	3600	12-22	30	25

TCR 1	1x250	1.2	850	6	3.7	1.05	70	0.43	900	12-12	30	8
TCR 2	1x250	1.4	800	6	4.6	1.25	70	0.43	900	12-12	30	8.5
TCR 3*	2x250	2.4	1700	6	7.4	2.03	140	0.86	1800	12-22	30	13.5
TCR 4*	2x250	2.8	1600	6	9.2	2.5	140	0.86	1800	12-22	30	14.5
TCR 5*	3x250	3.6	2550	6	11.1	3.1	210	1.29	2700	12-22	30	19.5
TCR 6*	3x250	4.2	2500	6	13.8	3.7	210	1.29	2700	12-22	30	21
TCR 7*	4x250	5.6	3400	6	18.4	4.9	280	1.72	3600	12-22	30	25

TCR bt 1	1x250	0.9	875	6	2.5	0.9	70	0.43	900	12-12	30	8
TCR bt 2	1x250	1	850	6	3.3	1.2	70	0.43	900	12-12	30	8.5
TCR bt 3*	2x250	1.8	1750	6	5	1.8	140	0.86	1800	12-22	30	13.5
TCR bt 4*	2x250	2	1700	6	6.6	2.4	140	0.86	1800	12-22	30	14.5
TCR bt 5*	3x250	2.7	2625	6	7.4	2.7	210	1.29	2700	12-22	30	19.5
TCR bt 6*	3x250	3	2600	6	9.8	3.6	210	1.29	2700	12-22	30	21
TCR bt 7*	4x250	4.1	3500	6	13	4.7	280	1.72	3600	12-22	30	25



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO



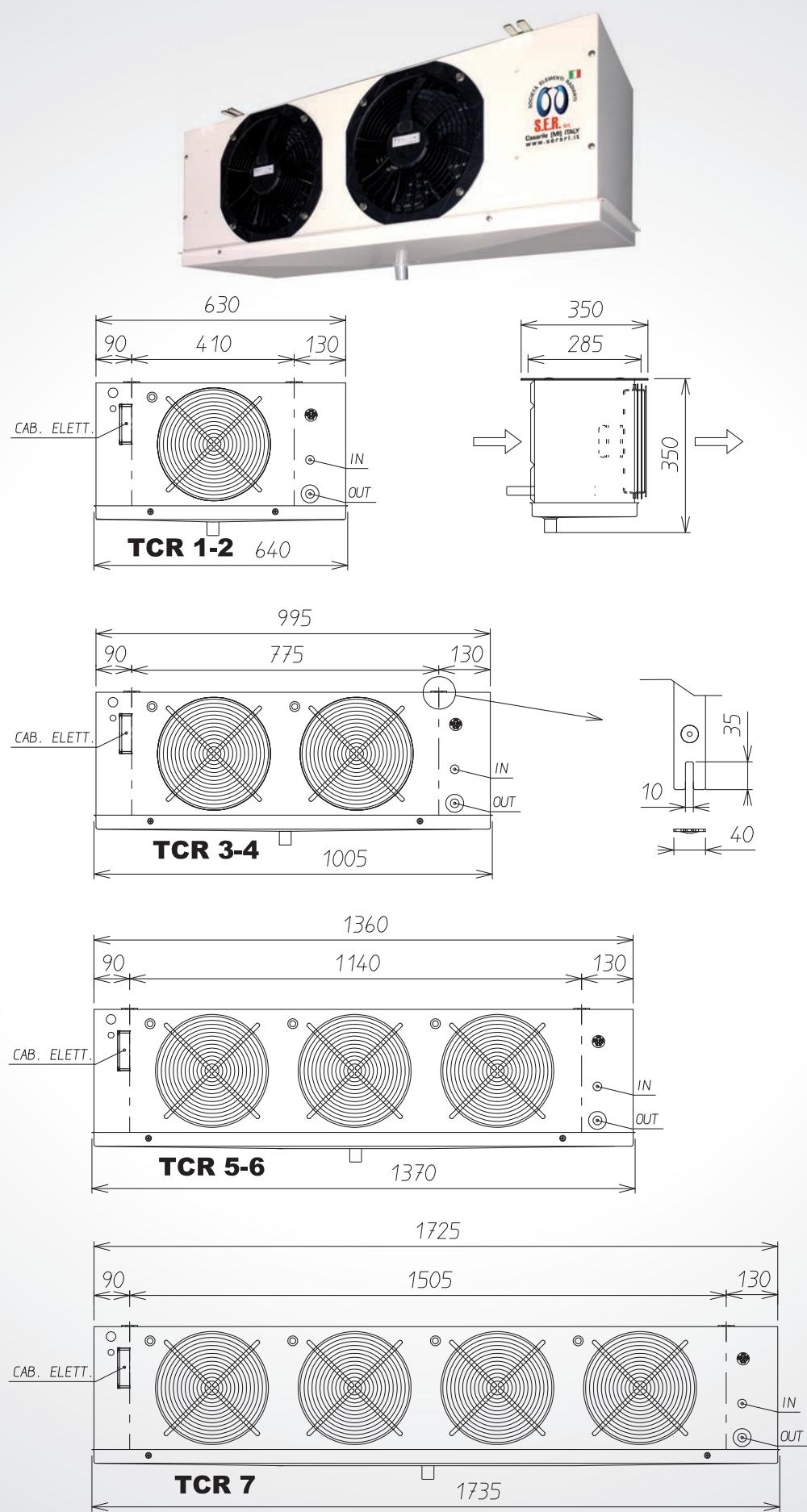
ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST

Capacità reali di impiego alle condizioni di utilizzo:
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

Real capacities whith following use conditions:
Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8°C = DT8K

* usare valvola termostatica con equalizzatore esterno

*use externally equalized thermostatic expansion valve



*Aeroevaporatori ridotti a doppio flusso d'aria
Evaporateur à double flux d'air avec dimensions réduites
Dual discharge unit coolers with reduced dimensions
Воздушные испарители с двойной циркуляцией воздуха*



Mod. SR è un evaporatore a doppio flusso d'aria studiato per applicazioni in celle frigorifere commerciali, dove lo spazio è ridotto, e per armadi frigoriferi e vetrine refrigerate. **SRH** è consigliato per la conservazione del prodotto fresco, passo alette mm. 4. **SR** è consigliato per la conservazione del prodotto fresco e congelato, passo alette mm. 5,50. **SR - SS** = versione senza sbrinamento (consigliato fino a 2°C) **SR - ED** = versione con sbrinamento elettrico (consigliato fino a -18°C) predisposti per il collegamento 230v/1/50-60hz. Motori ø 250mm. 230v/1/50-60hz.



Le **Mod. SR** est un évaporateur à double flux d'air étudié pour les applications dans les chambres à froid commerciales, où il n'y a beaucoup de place, et pour armoires frigorifiques et vitrines réfrigérées. **SRH** est pour la conservation du produit frais, écartement ailettes mm. 4. **SR** est pour la conservation du produit frais et congelé, écartement ailettes mm. 5,50. **SR - SS** = sans dégivrage (jusqu'à 2°C) **SR - ED** = avec dégivrage électrique (jusqu'à -18°C) prédéposition pour la connexion 230v/1/50-60hz. Moteurs ø 250mm. 230v/1/50-60hz.



The **SR MODEL** is a dual discharge cooler, studied for commercial cold rooms with reduced space and for cabinets. The **MOD. SRH** is recommended for the storage of fresh produce, fin spacing mm. 4. The **MOD. SR** is for fresh and frozen product storage, fin spacing mm. 5.50. **SR - SS** = without defrost (recommended till 2 °C) **SR - ED** = with electrical defrost (recommended till -18°C), arranged for the connection 230v/1/50-60hz. Motors ø 250mm, 230v/1/50-60hz.



MOD. SRH рекомендуется для хранения свежих продуктов, мм расстояние между ребрами. 4. **MOD.SR** - испаритель с двойной циркуляцией воздуха, предназначенный для использования в коммерческих холодильных камерах небольшого размера, холодильных шкафах и охлаждаемых витринах. Рекомендован для хранения свежих и замороженных продуктов, шаг лопастей 5,50 мм. **SR - SS** = вариант без размораживания (рекомендуется до 2°C) **SR - ED** = вариант с электрическим размораживанием (рекомендуется до -35°C), с электрическими сопротивлениями, бронированными нержавеющей сталью и вулканизированными оконечностями, для сети 230в / 1/50-60Гц. Моторы ø 250мм. 230в/1/50-60 Гц.

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
SRH	10°C +2°C	mm 4
SR	2°C -18°C	mm 5,5



ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

				x2								
SRH 1	1x250	1.3	800	3.3	4.8	1	70	0.43	600	12-16	30	8.5
SRH 2*	2x250	2.6	1600	3.3	9.4	1.96	140	0.86	1200	12-16	30	16
SRH 3*	3x250	3.8	2400	3.3	15	3	210	1.29	1800	16-22	30	23
SRH 4*	4x250	5.1	3200	3.3	18.9	3.9	290	1.72	2400	16-22	30	30

SR 1	1x250	1	800	3.5	3.7	1	70	0.43	600	12-16	30	8.5
SR 2*	2x250	2	1600	3.5	7.2	1.96	140	0.86	1200	12-16	30	16
SR 3*	3x250	3.1	2400	3.5	11.5	3	210	1.29	1800	16-22	30	23
SR 4*	4x250	4.1	3200	3.5	14.5	3.9	290	1.72	2400	16-22	30	30



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

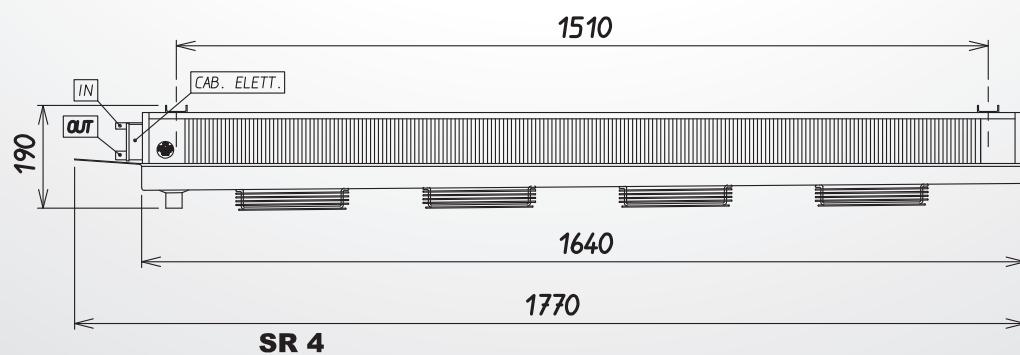
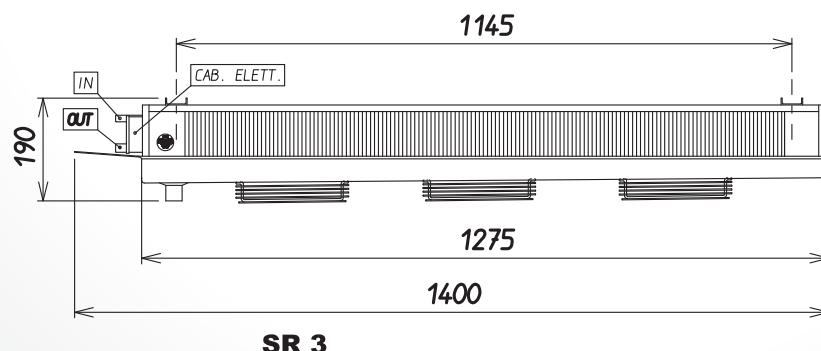
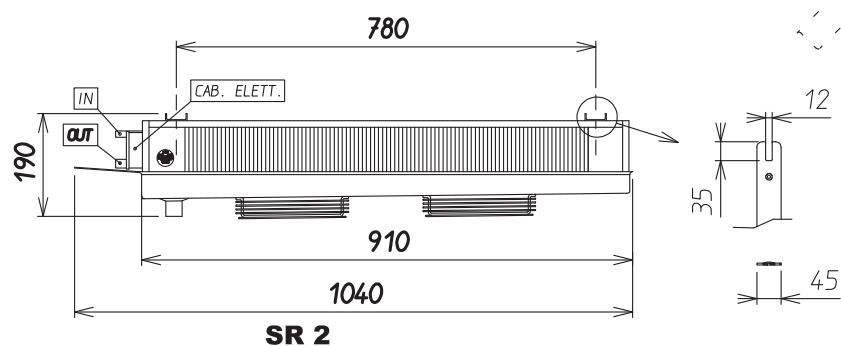
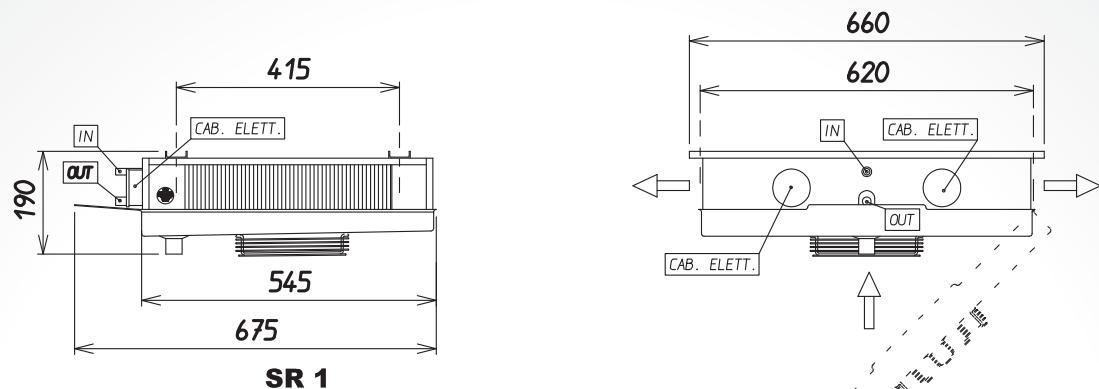
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

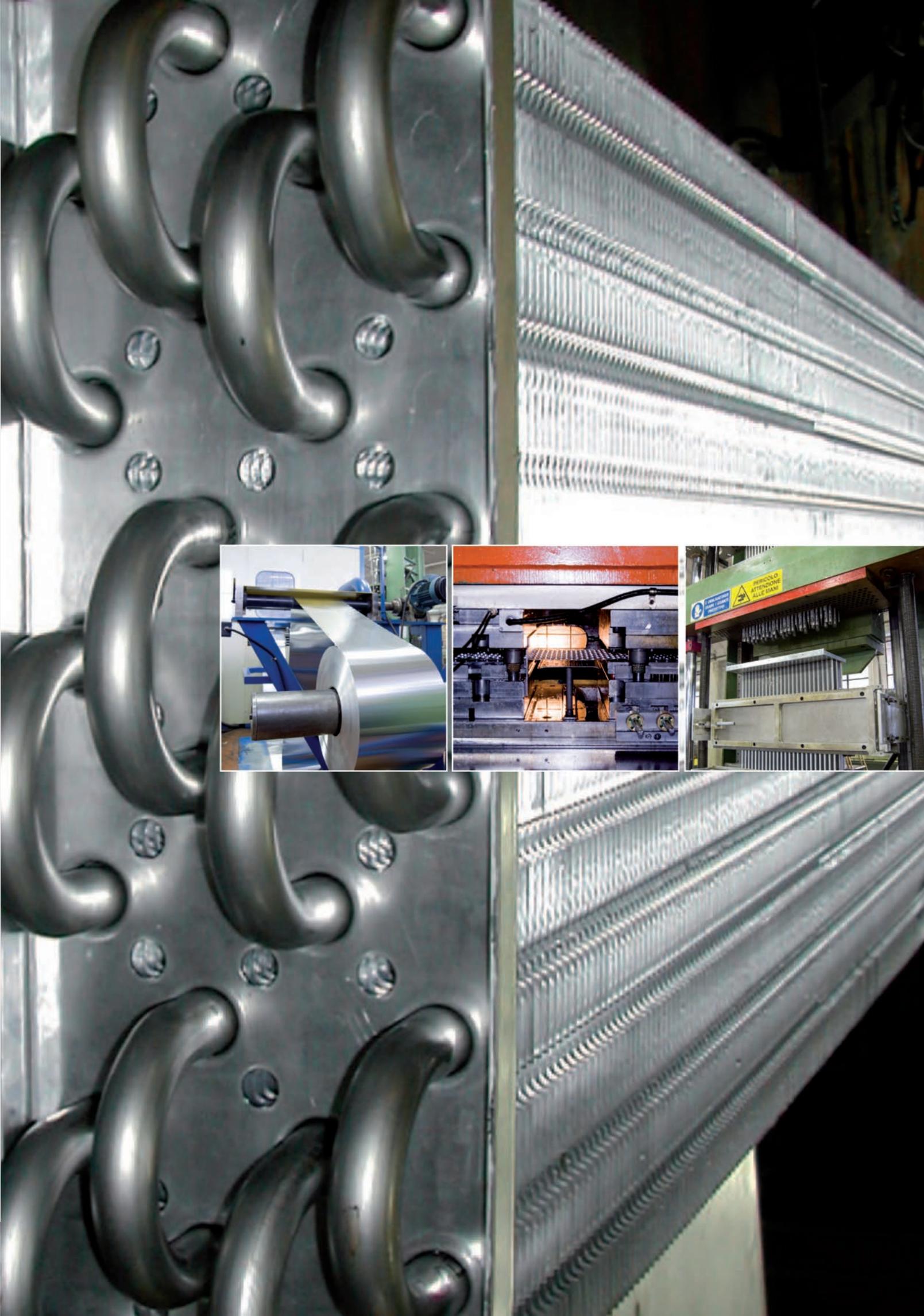
Real capacities whith following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8° C = DT8K

* usare valvola termostatica con equalizzatore esterno

*use externally equalized thermostatic expansion valve







MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS



Il **Mod. MD** è un evaporatore angolare studiato per applicazioni in celle frigorifere commerciali. Il **Mod. MDH** è adatto per conservazione di prodotto fresco, passo alette mm. 3,5. Il **Mod. MDM** è adatto per congelamento e conservazione prodotto fresco e surgelato, passo alette mm. 6. Il **Mod. MDL** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 7,5. Il **Mod. MDZ** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 11. **MD** hanno i motori ø 315 a doppia velocità monofase, 230v 1/50-60hz. **MD - SS** = versione senza sbrinamento (consigliato fino a 2°C) **MD - ED** = versione con sbrinamento elettrico (consigliato fino a -40°C), predisposti per il collegamento 400v/3/50-60hz.



Le **Mod. MD** est un évaporateur angulaire étudié pour l'application dans les chambres à froid commerciales. **Mod. MDH** est pour la conservation du produit frais, écartement ailettes mm. 3,5. **Mod. MDM** est pour congélation et conservation du produit frais et surgelé, écartement ailettes mm. 6. **MDL** est pour la congélation et conservation du produit surgelé, écartement ailette mm. 7,5. **Mod. MDZ** est pour la congélation et conservation du produit surgelé, écartement ailettes mm. 11. **MD** avec moteurs ø 315 double vitesse monophase, 230v 1/50-60hz. **MD - SS** = sans dégivrage (recommandé jusqu'à 2°C) **MD - ED** = avec dégivrage électrique (recommandé jusqu'à -40°C), prédisposition pour la connexion 400v/3/50-60hz.



MOD. MD is a cubic commercial cooler with high rendering and with high air volume, recommended for cold rooms. **MOD. MDH**: for fresh product storage, fine spacing mm. 3,5. **MOD. MDM**: for fresh and frozen product storage, fin spacing mm. 6. **MOD. MDL**: for freezing and frozen product storage, fine spacing mm. 7,5. **MOD. MDZ**: for freezing and frozen product storage, fine spacing mm. 11. **MOD. MD** with motor ø 315mm., monophase, 230v/ 1/50-60 hz, **MD - SS** = without defrost (recommended till 2 °C) **MD - ED** = with electrical defrost(recommended till -40°C),arranged for the connection 400v /3/50-60hz.



МОД. МD Использования в холодильных камерах. Имеет компактные размеры и может использоваться в камерах среднего размера и малой высоты. **МОД. МDH** Рекомендован для хранения свежих продуктов, шаг лопастей 3,5 мм. **МОД. МDM** Рекомендован для хранения свежих продуктов, шаг лопастей 6 мм. **МОД. MDL** Рекомендован для замораживания и хранения свежих и быстрозамороженных продуктов, шаг лопастей 7,5 мм. **МОД. MDZ** Рекомендован для замораживания и хранения свежих и быстрозамороженных продуктов, шаг лопастей 11 мм. СЕРИЯ **MD** подразделяется на 2 типа: **МОД. МD** с мотором ø 315 мм, монофазным, 230в 1/50-60Гц, **MD - SS** = вариант без размораживания (рекомендуется до 2°C) **MD - ED** = вариант с электрическим размораживанием (рекомендуется до -40°C, для сети 400в /3/50-60Гц).



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO

Capacità reali di impiego alle condizioni di utilizzo:
 Umidità in cella 85%
 Refrigerante R404A
 Temperatura ingresso aria 0°C
 Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST

Real capacities whith following use conditions:
 Humidit in the cold room 85%
 Refrigerant fluid R404A
 Air entering temp. 0°C
 Evaporating temp. -8° C = DT8K

use externally equalized thermostatic expansion valve

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
MDH	10°C +2°C	mm 3,5
MDM	2°C -18°C	mm 6
MDL	0°C -30°C	mm 7,5
MDZ	0°C -40°C	mm 11

MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS



	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

RPM 1340												
MDH 1	1x315	2.3	1500	8	12	1.8	140	0.62	1440	12-12	30	17
MDH 2	2x315	4.7	3000	9	23	3.5	280	1.24	2040	12-22	30	33
MDH 3	3x315	6.9	4500	11	34	5.3	420	1.86	3240	16-28	30	50
MDH 4	4x315	9.4	6000	13	45	6.9	560	2.48	4500	16-28	30	67

MDM 1	1x315	2	1500	8	7	1.8	140	0.62	1440	12-12	30	16
MDM 2	2x315	4	3000	9	14	3.5	280	1.24	2040	12-22	30	32
MDM 3	3x315	6	4500	11	21	5.3	420	1.86	3240	16-28	30	48
MDM 4	4x315	8	6000	13	28	6.9	560	2.48	4500	16-28	30	65

MDL 1	1x315	1.9	1550	9	6.7	1.8	140	0.62	1440	12-12	30	16
MDL 2	2x315	3.7	3100	10	12.5	3.5	280	1.24	2040	12-22	30	31
MDL 3	3x315	5.3	4650	12	18	5.3	420	1.86	3240	16-28	30	47
MDL 4	4x315	7.4	6200	14	24	6.9	560	2.48	4500	16-28	30	63

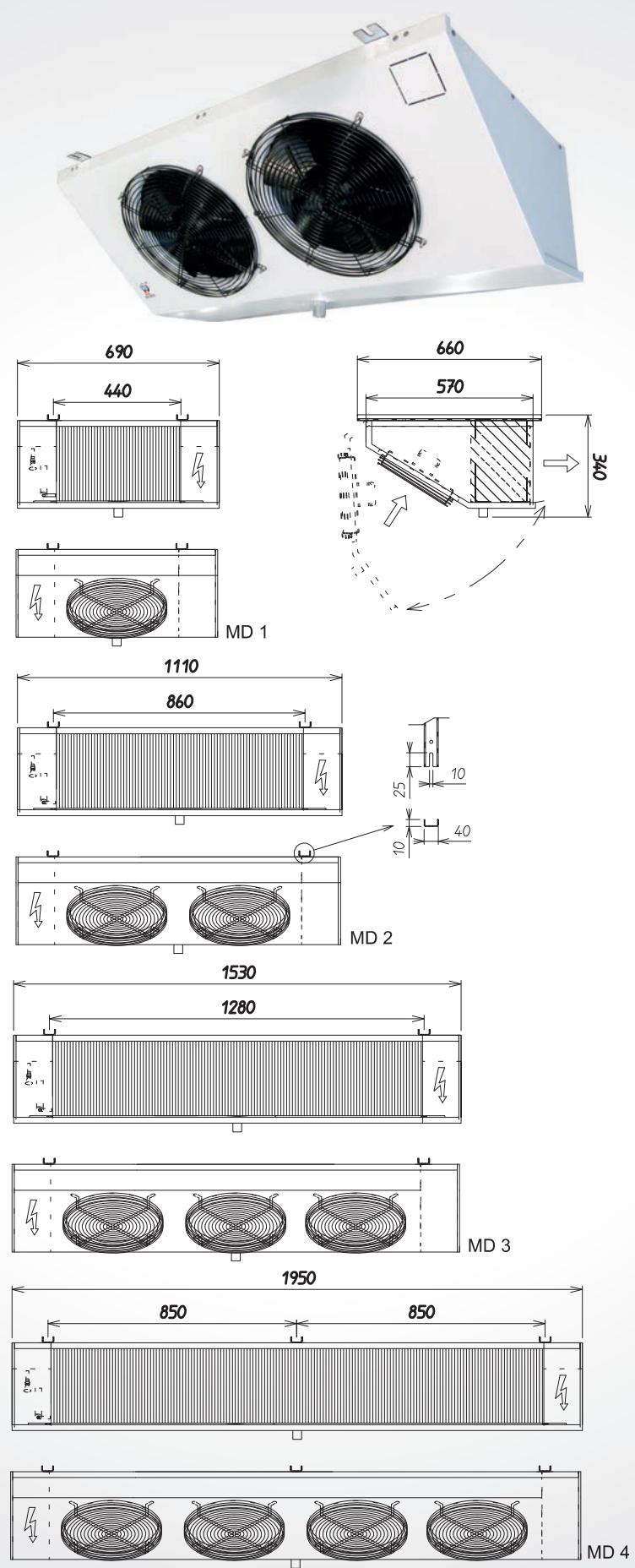
MDZ 1	1x315	1.5	1600	10	5.5	1.8	140	0.62	1440	12-12	30	15
MDZ 2	2x315	3	3200	11	9.8	3.5	280	1.24	2040	12-22	30	29
MDZ 3	3x315	4.5	4800	13	14.2	5.3	420	1.86	3240	16-28	30	44
MDZ 4	4x315	6.3	6400	15	18.5	6.9	560	2.48	4500	16-28	30	59

RPM 1100												
MDH 1	1x315	1.9	1200	6	12	1.8	110	0.5	1440	12-12	30	17
MDH 2	2x315	4	2400	7	23	3.5	220	1	2040	12-22	30	33
MDH 3	3x315	5.9	3600	8	34	5.3	330	1.5	3240	16-28	30	50
MDH 4	4x315	8	4800	9	45	6.9	440	2	4500	16-28	30	67

MDM 1	1x315	1.7	1200	6	6	1.8	110	0.5	1440	12-12	30	16
MDM 2	2x315	3.4	2400	7	14	3.5	220	1	2040	12-22	30	32
MDM 3	3x315	5.1	3600	8	21	5.3	330	1.5	3240	16-28	30	48
MDM 4	4x315	6.8	4800	9	28	6.9	440	2	4500	16-28	30	65

MDL 1	1x315	1.6	1250	7	6.7	1.8	110	0.5	1440	12-12	30	16
MDL 2	2x315	3.2	2500	8	12.5	3.5	220	1	2040	12-22	30	31
MDL 3	3x315	4.5	3750	9	18	5.3	330	1.5	3240	16-28	30	47
MDL 4	4x315	6.3	5000	10	24	6.9	440	2	4500	16-28	30	63

MDZ 1	1x315	1.3	1300	7.5	5.5	1.8	110	0.5	1440	12-12	30	15
MDZ 2	2x315	2.6	2600	8.5	9.8	3.5	220	1	2040	12-22	30	29
MDZ 3	3x315	3.9	3900	9.5	14.2	5.3	330	1.5	3240	16-28	30	44
MDZ 4	4x315	5.4	5200	10.5	18.5	6.9	440	2	4500	16-28	30	59



Aeroevaporatori cubici commerciali

Evaporateur commercial cubique

Commercial unit coolers

Воздушные испарители с двойной циркуляцией воздуха



TC/e



TC



Il **Mod. TC** è un evaporatore cubico commerciale ad alto rendimento, con una elevata portata d'aria, per applicazioni in celle frigorifere. Ha una struttura molto compatta per adattarsi anche a celle medio basse. Il **Mod. TCH** è adatto per conservazione di prodotto fresco, passo alette mm. 3,5. Il **Mod. TCM** è adatto per conservazione prodotto fresco e congelato, passo alette mm. 5,5. Il **Mod. TCL** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 7,5. Il **Mod. TCZ** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 11 La **SERIE TC** ha 2 tipologie: **Mod. TC/e** con motore ø 300mm, monofase a poli schermati 230v 1/50-60hz. **Mod. TC** con motore ø 315 monofase, 230v 1/50- 60hz, **TC - SS** = versione senza sbrinamento (consigliato fino a 2°C) **TC - ED** = versione con sbrinamento elettrico (consigliato fino a -40°C), predisposti per il collegamento 400v/3/50-60hz. **TC-HG** = versione con sbrinamento gas caldo.



Mod. TC est un évaporateur cubique commercial à haut rendement, pour application dans chambres à froid. L'évaporateur est très compact pour l'adaptation dans petites chambres à froid. Le **Mod. TCH** est pour la conservation du produit frais , écartement ailettes mm. 3,5. Le **Mod. TCM** est pour la conservation du produit frais et congelé, écartement ailettes mm. 5,5. Le **Mod. TCL** est pour la congélation et conservation du produit surgelé, écartement ailettes mm. 7,5. Le **Mod. TCZ** est pour la congélation et la conservation du produit surgelé, écartement ailettes mm. 11 La **SERIE TC** a 2 versions: **Mod. TC/E** avec moteur ø 300mm, monophase avec poles masqués 230v 1/50-60hz. **Mod. TC** avec ø 315 monophase, 230v 1/50- 60hz, **TC - SS** = sans dégivrage (jusqu'à 2°C) **TC - ED** = avec dégivrage électrique (jusqu'à -40°C),prédisposition pour la connexion 400v/3/50-60hz. **TC-HG** = version avec dégivrage gaz chaud.



The **MOD. TC** is a cubic commercial cooler with high rendering and with high air volume, recommended for cold rooms. **MOD. TCH**: for fresh product storage, fin spacing mm. 3,5 **MOD. TCM**: for fresh and frozen product storage, fin spacing mm. 5,5. **MOD. TCL**: for freezing and frozen product storage, fin spacing mm. 7,5. **MOD. TCZ**: for freezing and frozen product storage, fin spacing mm. 11. The **SERIE TC** is in 2 versions: **MOD. TC/e** with motor ø 300mm. , monophase, 230v/1/50-60hz . **MOD. TC** with motor ø 315mm., monophase, 230v/ 1/50-60 hz, **TC - SS** = without defrost (recommended till 2 °C) **TC - ED** = with electrical defrost(recommended till -40°C), arranged for the connection 400v /3/50-60hz. **TC-HG** = with hot gas defrost.



TC - испаритель кубический для торговой сети, высоко производительный, с повышенным объемом воздуха, для использования в холодильных камерах. Имеет компактные размеры и может использоваться в камерах среднего размера и малой высоты. Мод. **TCH** Рекомендован для хранения свежих продуктов, шаг лопастей 3,5 мм. Мод. **TCM** Рекомендован для хранения свежих и замороженных продуктов, шаг лопастей 5,5 мм. Мод. **TCL** Рекомендован для замораживания и хранения свежих и быстрозамороженных продуктов, шаг лопастей 7,5 мм. Мод. **TCZ** Рекомендован для замораживания и хранения свежих и быстрозамороженных продуктов, шаг лопастей 11 мм. **СЕРИЯ TC** подразделяется на 2 типа: Мод. **TC/e** с мотором ø 300 мм, монофазным с экранированными полюсами 230в 1/50-60Гц. Мод. **TC** с мотором ø 315 мм, монофазным, 230в 1/50-60Гц. **TC - SS** = вариант без размораживания (рекомендуется до 2°C) **TC - ED** = вариант с электрическим размораживанием (рекомендуется до -40°C), для сети 400в /3/50-60Гц. **TC-HG** = размораживание горячим газом.

TC/e

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 3,5
M	2°C -18°C	mm 5,5
L	0°C -30°C	mm 7,5
Z	0°C -40°C	mm 11



ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

TCH/e 1	1x300	1.9	1400	9	10	1.9	130	0.85	1440	12-22	30	19
TCH/e 2	1x300	2.5	1400	9	13.3	2.3	130	0.85	1440	12-22	30	23
TCH/e 3	2x300	3.9	2800	9	20	3.7	260	1.7	2040	16-22	30	30
TCH/e 4	2x300	5	2800	9	26.65	4.6	260	1.7	2040	16-22	30	35
TCH/e 5	3x300	7.6	4200	9	40	6.9	390	2.55	3240	22-28	30	49
TCH/e 6	4x300	10	5600	9	53.3	9.2	520	3.4	4500	22-28	30	62
TCH/e 7	5x300	12.2	7000	9	63.64	10.98	650	4.25	5400	22-28	30	74
TCH/e 8	6x300	14.8	8400	9	76.4	13.13	780	5.1	6780	22-28	30	88
TCH/e 9	6x300	17.5	8200	8	95.51	16.41	780	5.1	6780	22-28	30	110

TCM/e 1	1x300	1.5	1450	10	6.57	1.9	130	0.85	1440	12-22	30	18
TCM/e 2	1x300	2	1450	10	8.76	2.3	130	0.85	1440	12-22	30	22
TCM/e 3	2x300	3	2900	10	13.12	3.7	260	1.7	2040	16-22	30	29
TCM/e 4	2x300	4	2900	10	17.5	4.6	260	1.7	2040	16-22	30	34
TCM/e 5	3x300	6	4350	10	26.3	6.9	390	2.55	3240	22-28	30	48
TCM/e 6	4x300	8	5800	10	35	9.2	520	3.4	4500	22-28	30	60
TCM/e 7	5x300	9.6	7250	10	41.85	10.98	650	4.25	5400	22-28	30	70
TCM/e 8	6x300	11.8	8700	10	50.2	13.13	780	5.1	6780	22-28	30	85
TCM/e 9	6x300	14.3	8500	9	62.75	16.41	780	5.1	6780	22-28	30	105

TCL/e 1	1x300	1.2	1500	10	4.96	1.9	130	0.85	1440	12-22	30	17
TCL/e 2	1x300	1.8	1500	10	6.62	2.3	130	0.85	1440	12-22	30	21
TCL/e 3	2x300	2.3	3000	10	9.92	3.7	260	1.7	2040	16-22	30	28
TCL/e 4	2x300	3.3	3000	10	13.23	4.6	260	1.7	2040	16-22	30	33
TCL/e 5	3x300	4.7	4500	10	19.85	6.9	390	2.55	3240	22-28	30	47
TCL/e 6	4x300	7	6000	10	26.46	9.2	520	3.4	4500	22-28	30	58
TCL/e 7	5x300	8	7500	10	31.61	10.98	650	4.25	5400	22-28	30	67
TCL/e 8	6x300	10	9000	10	37.93	13.13	780	5.1	6780	22-28	30	82
TCL/e 9	6x300	12.3	8800	9	47.42	16.41	780	5.1	6780	22-28	30	100

TCZ/e 1	1x300	1.1	1500	10	3.9	1.9	130	0.85	1440	12-22	30	17
TCZ/e 2	1x300	1.6	1500	10	5.2	2.3	130	0.85	1440	12-22	30	21
TCZ/e 3	2x300	2.1	3000	10	7.8	3.7	260	1.7	2040	16-22	30	28
TCZ/e 4	2x300	3	3000	10	10.4	4.6	260	1.7	2040	16-22	30	33
TCZ/e 5	3x300	4.1	4500	10	15.5	6.9	390	2.55	3240	22-28	30	47
TCZ/e 6	4x300	6	6000	10	20.7	9.2	520	3.4	4500	22-28	30	58
TCZ/e 7	5x300	7	7500	10	24.7	10.98	650	4.25	5400	22-28	30	67
TCZ/e 8	6x300	8.4	9000	10	29.6	13.13	780	5.1	6780	22-28	30	82
TCZ/e 9	6x300	10.6	8800	9	37	16.41	780	5.1	6780	22-28	30	100

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 3,5
M	2°C -18°C	mm 5,5
L	0°C -30°C	mm 7,5
Z	0°C -40°C	mm 11



ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

TCH 1	1x315	2.1	1600	11	10	1.9	102/120	0,52/0,53	1440	12-22	30	19
TCH 2	1x315	2.7	1600	11	13.3	2.3	102/120	0,52/0,53	1440	12-22	30	23
TCH 3	2x315	4.2	3200	11	20	3.7	204/240	1,04/1,06	2040	16-22	30	30
TCH 4	2x315	5.5	3200	11	26.65	4.6	204/240	1,04/1,06	2040	16-22	30	35
TCH 5	3x315	8.3	4800	11	40	6.9	306/360	1,56/1,59	3240	22-28	30	49
TCH 6	4x315	10.5	6400	11	53.3	9.2	408/480	2,08/2,12	4500	22-28	30	62
TCH 7	5x315	13.4	8000	11	63.64	10.98	510/600	2,6/2,65	5400	22-28	30	74
TCH 8	6x315	16.2	9600	11	76.4	13.13	612/720	3,12/3,18	6780	22-28	30	88
TCH 9	6x315	19	9600	11	95.51	16.41	612/720	3,12/3,18	6780	22-28	30	110

TCM 1	1x315	1.7	1650	12	6.57	1.9	102/120	0,52/0,53	1440	12-22	30	18
TCM 2	1x315	2.2	1650	12	8.76	2.3	102/120	0,52/0,53	1440	12-22	30	22
TCM 3	2x315	3.2	3300	12	13.12	3.7	204/240	1,04/1,06	2040	16-22	30	29
TCM 4	2x315	4.4	3300	12	17.5	4.6	204/240	1,04/1,06	2040	16-22	30	34
TCM 5	3x315	6.5	4950	12	26.3	6.9	306/360	1,56/1,59	3240	22-28	30	48
TCM 6	4x315	8.7	6600	12	35	9.2	408/480	2,08/2,12	4500	22-28	30	60
TCM 7	5x315	10.4	8250	12	41.85	10.98	510/600	2,6/2,65	5400	22-28	30	70
TCM 8	6x315	12.7	9900	12	50.2	13.13	612/720	3,12/3,18	6780	22-28	30	85
TCM 9	6x315	15.5	9900	12	62.75	16.41	612/720	3,12/3,18	6780	22-28	30	105

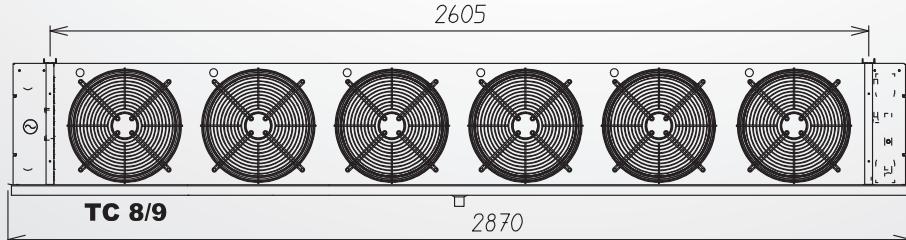
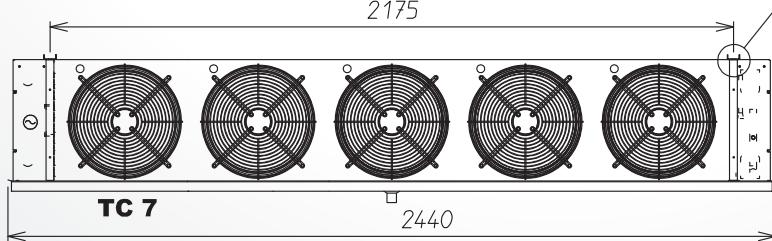
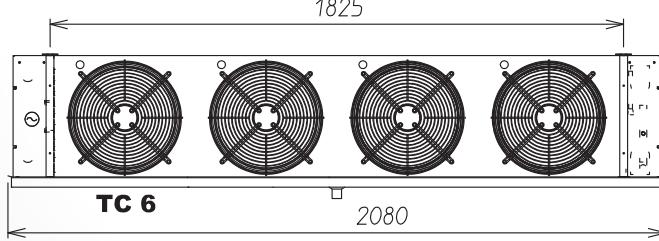
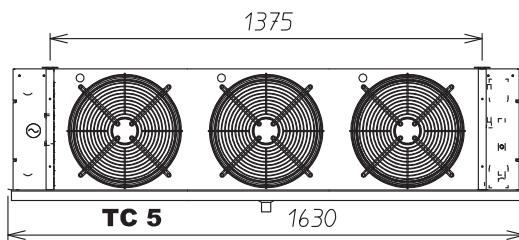
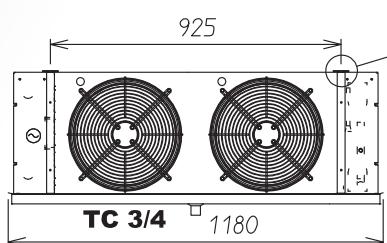
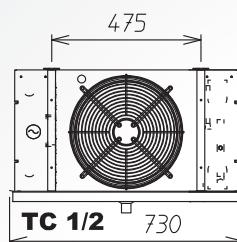
TCL 1	1x315	1.3	1700	13	4.96	1.9	102/120	0,52/0,53	1440	12-22	30	17
TCL 2	1x315	1.9	1700	13	6.62	2.3	102/120	0,52/0,53	1440	12-22	30	21
TCL 3	2x315	2.6	3400	13	9.92	3.7	204/240	1,04/1,06	2040	16-22	30	28
TCL 4	2x315	3.7	3400	13	13.23	4.6	204/240	1,04/1,06	2040	16-22	30	33
TCL 5	3x315	5.5	5100	13	19.85	6.9	306/360	1,56/1,59	3240	22-28	30	47
TCL 6	4x315	7.4	6800	13	26.46	9.2	408/480	2,08/2,12	4500	22-28	30	58
TCL 7	5x315	8.6	8500	13	31.61	10.98	510/600	2,6/2,65	5400	22-28	30	67
TCL 8	6x315	10.6	10200	13	37.93	13.13	612/720	3,12/3,18	6780	22-28	30	82
TCL 9	6x315	13.4	10200	13	47.42	16.41	612/720	3,12/3,18	6780	22-28	30	100

TCZ 1	1x315	1.2	1700	14	3.9	1.9	102/120	0,52/0,53	1440	12-22	30	17
TCZ 2	1x315	1.7	1700	14	5.2	2.3	102/120	0,52/0,53	1440	12-22	30	21
TCZ 3	2x315	2.2	3400	14	7.8	3.7	204/240	1,04/1,06	2040	16-22	30	28
TCZ 4	2x315	3.2	3400	14	10.4	4.6	204/240	1,04/1,06	2040	16-22	30	33
TCZ 5	3x315	4.8	5100	14	15.5	6.9	306/360	1,56/1,59	3240	22-28	30	47
TCZ 6	4x315	6.4	6800	14	20.7	9.2	408/480	2,08/2,12	4500	22-28	30	58
TCZ 7	5x315	7.5	8500	14	24.7	10.98	510/600	2,6/2,65	5400	22-28	30	67
TCZ 8	6x315	9.2	10200	14	29.6	13.13	612/720	3,12/3,18	6780	22-28	30	82
TCZ 9	6x315	11.2	10200	14	37	16.41	612/720	3,12/3,18	6780	22-28	30	100

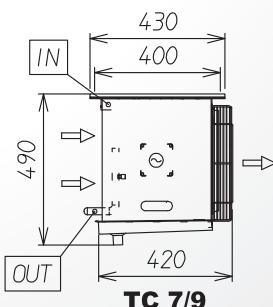
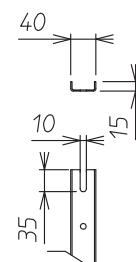
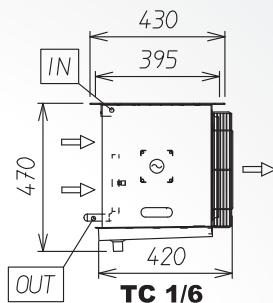
TC/e - TC



TC/e



TC





TS/e - TS

Aeroevaporatori a doppio flusso d'aria

Evaporateur à double flux d'air

Dual discharge unit coolers

Воздушные испарители с двойной циркуляцией воздуха



TS/e

MOTORI DOPPIA VELOCITA DOUBLE SPEED MOTORS



TS



Il Mod **TS** è un evaporatore a doppio flusso d'aria, per applicazioni in celle frigorifere di altezza ridotta e sale di lavorazione. Il **Mod. TSH** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 3,2. Il **Mod. TSM** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 5,5. Il **Mod. TSL** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 7,5. Il **Mod. TSZ** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 11. La serie **TS** si differenzia in 2 tipologie: **Mod. TS/e** con motore ø 300mm, monofase a poli schermati 230v 1/50-60hz. **Mod. TS HIGH/LOW CON MOTORE A DOPPIA VELOCITÀ** ø 315 monofase, 230v 1/50-60hz. **TS- SS** = versione senza sbrinamento (consigliato fino a 2°C) **TS- ED** = versione con sbrinamento elettrico (consigliato fino a -40°C), predisposti per il collegamento 400v/3/50-60hz. **TS - HG** = sbrinamento gas caldo.



Le Mod **TS** est un évaporateur à double flux de l'air, installation à plafond pour chambres à froid et salles de travail. Le Mod. **TSH** est pour la congélation et conservation du produit surgelé, écartement ailettes mm. 3,2. Le Mod. **TSM** est pour congélation et conservation du produit frais et surgelé, écartement ailettes mm. 5,5. Mod. **TSL** est pour congélation produit surgelé, écartement ailettes mm. 7,5. Mod. **TSZ** est pour congélation et conservation produit surgelé, écartement ailettes mm. 11. La série **TS** a 2 types : Mod. **TS/E** avec moteur ø 300mm, monophase avec poles masqués 230v 1/50-60hz. Mod. **TS HIGH/LOW avec moteurs a 2 vitesses** ø 315 monophase 230v 1/50-60hz. **TS- SS** = sans dégivrage (recommandé jusqu'à 2°C) **TS- ED** = avec dégivrage électrique (recommandé jusqu'à -40°C), prédisposition pour la connexion 400v/3/50-60hz. **TS - HG** = dégivrage à gaz chaud.



The **MOD. TS** is dual discharge cooler, recommended for cold rooms with reduced height and working rooms. **MOD. TSH**: for fresh and frozen product storage, fin spacing mm. 3,2. **MOD. TSM**: for fresh and frozen product storage, fin spacing mm. 5,5. **MOD. TSL**: for fresh and frozen product storage, fin spacing mm. 7,5. **MOD. TSZ**: for fresh and frozen product storage, fin spacing mm. 11. The series **TS** is in 2 versions: **MOD. TS/e** with motor ø 300mm, monophase, 230v/1/50-60hz. **MOD. TS HIGH/LOW WITH DOUBLE SPEED** motor ø 315mm., monophase ,230v/ 1/50-60 hz. **TS - SS** = without defrost (recommended till 2°C) **TS - ED** = with electrical defrost(recommended till -40°C),arranged for the connection 400v/3/50-60hz. **TS - HG** = hot gas defrost.



ОПИСАНИЕ ПРОДУКТА **TS** - испаритель с двойной циркуляцией воздуха, предназначенный для использования в холодильных камерах небольшой высоты и разделочных залах. МОД. **TSH** Рекомендован для хранения свежих продуктов, шаг лопастей 3,2 мм. МОД. **TSM** Рекомендован для хранения свежих продуктов, шаг лопастей 5,5 мм. МОД. **TSL** Рекомендован для хранения свежих продуктов, шаг лопастей 7,5 мм. МОД. **TSZ** Рекомендован для хранения свежих продуктов, шаг лопастей 11 мм. СЕРИЯ **TS** подразделяется на 2 типа: МОД. **TS/e** с мотором ø 300 мм, монофазным с экранированными полюсами 230в 1/50-60Гц, МОД. **TS HIGH/LOW С ДВУХСКОРОСТНЫМ МОТОРОМ** ø 315 мм, монофазным, 230в 1/50-60Гц **TS - SS** = вариант без размораживания (рекомендуется до 2°C) **TS - ED** = вариант с электрическим размораживанием (рекомендуется до -40°C), для сети 400в /3/50-60Гц. **TS - HG** = размораживание горячим газом.

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 3,2
M	2°C -18°C	mm 5,5
L	0°C -30°C	mm 7,5
Z	0°C -40°C	mm 11



IT	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

			x2									
TSH/e 1	1x300	2.4	1400	8	16	2.2	130	0.8	1440	12-16	30	24
TSH/e 2	2x300	4.3	2800	8	32	4.4	260	1.6	2040	12-22	30	40
TSH/e 3	3x300	7	4200	8	48	6.6	390	2.4	3240	16-28	30	56
TSH/e 4	4x300	8.6	5600	8	64	8.8	520	3.2	4500	16-28	30	75
TSH/e 5	5x300	11.5	7000	8	80	11	650	4	5400	16-42	30	92
TSH/e 6	6x300	13	8400	8	95	13.2	780	4.8	6780	16-42	30	112

TSM/e 1	1x300	1.8	1450	10	10	2.2	130	0.8	1440	12-16	30	22
TSM/e 2	2x300	3.6	2900	10	20	4.4	260	1.6	2040	12-22	30	37
TSM/e 3	3x300	5.4	4350	10	29	6.6	390	2.4	3240	16-28	30	50
TSM/e 4	4x300	7.2	5800	10	39	8.8	520	3.2	4500	16-28	30	63
TSM/e 5	5x300	9.5	7250	10	48	11	650	4	5400	16-42	30	84
TSM/e 6	6x300	11	8700	10	58	13.2	780	4.8	6780	16-42	30	100

TSL/e 1	1x300	1.6	1500	10	8	2.2	130	0.8	1440	12-16	30	21
TSL/e 2	2x300	3.1	3000	10	15	4.4	260	1.6	2040	12-22	30	35
TSL/e 3	3x300	4.5	4500	10	22	6.6	390	2.4	3240	16-28	30	48
TSL/e 4	4x300	6.3	6000	10	29	8.8	520	3.2	4500	16-28	30	64
TSL/e 5	5x300	8	7500	10	37	11	650	4	5400	16-42	30	78
TSL/e 6	6x300	9.5	9000	10	44	13.2	780	4.8	6780	16-42	30	92

TSZ/e 1	1x300	1.5	1500	10	7	2.2	130	0.8	1440	12-16	30	21
TSZ/e 2	2x300	2.7	3000	10	12	4.4	260	1.6	2040	12-22	30	35
TSZ/e 3	3x300	4	4500	10	18	6.6	390	2.4	3240	16-28	30	48
TSZ/e 4	4x300	5.3	6000	10	23	8.8	520	3.2	4500	16-28	30	64
TSZ/e 5	5x300	7	7500	10	29	11	650	4	5400	16-42	30	78
TSZ/e 6	6x300	8	9000	10	35	13.2	780	4.8	6780	16-42	30	92



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO
HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST
HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

Real capacities with following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8°C = DT8K

use externally equalized thermostatic expansion valve

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 3,2
M	2°C -18°C	mm 5,5
L	0°C -30°C	mm 7,5
Z	0°C -40°C	mm 11



MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS



ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

RPM	RPM	RPM-RPM
1100	1340	1100-1340 x2

TSH 1	1x315	2.1	2.5	1150/1550	6,5/8,5	16	2.2	110/140	0,52/0,62	1440	12-22	30	24
TSH 2	2x315	3.8	4.5	2300/3100	6,5/8,5	32	4.4	220/280	1/1,24	2040	12-22	30	40
TSH 3	3x315	6.5	8	3450/4650	6,5/8,5	48	6.6	330/420	1,51/1,86	3240	16-28	30	56
TSH 4	4x315	7.6	9	4600/6200	6,5/8,5	64	8.8	440/560	2/2,48	4500	16-28	30	75
TSH 5	5x315	10.1	12	5750/7750	6,5/8,5	80	11	550/770	2,5/3,10	5400	16-42	30	92
TSH 6	6x315	11.5	14	6900/9300	6,5/8,5	95	13.2	660/840	3/3,72	6780	16-42	30	112

TSM 1	1x315	1.7	2	1200/1600	7,5/9,5	10	2.2	110/140	0,52/0,62	1440	12-22	30	22
TSM 2	2x315	3.1	4	2400/3200	7,5/9,5	20	4.4	220/280	1/1,24	2040	12-22	30	37
TSM 3	3x315	5	5.5	3600/4800	7,5/9,5	29	6.6	330/420	1,51/1,86	3240	16-28	30	50
TSM 4	4x315	6.3	7.5	4900/6400	7,5/9,5	39	8.8	440/560	2/2,48	4500	16-28	30	63
TSM 5	5x315	8.2	10	6000/8000	7,5/9,5	48	11	550/770	2,5/3,10	5400	16-42	30	84
TSM 6	6x315	9.5	11.5	7200/9600	7,5/9,5	58	13.2	660/840	3/3,72	6780	16-42	30	100

TSL 1	1x315	1.4	1.8	1250/1650	8,5/10,5	8	2.2	110/140	0,52/0,62	1440	12-22	30	21
TSL 2	2x315	2.7	3.5	2500/3300	8,5/10,5	15	4.4	220/280	1/1,24	2040	12-22	30	35
TSL 3	3x315	4.3	5	3750/4950	8,5/10,5	22	6.6	330/420	1,51/1,86	3240	16-28	30	48
TSL 4	4x315	5.5	6.5	5000/6600	8,5/10,5	29	8.8	440/560	2/2,48	4500	16-28	30	64
TSL 5	5x315	7	8.5	6250/8250	8,5/10,5	37	11	550/770	2,5/3,10	5400	16-42	30	78
TSL 6	6x315	8.2	10	7500/9900	8,5/10,5	44	13.2	660/840	3/3,72	6780	16-42	30	92

TSZ 1	1x315	1.2	1.5	1250/1650	8,5/10,5	7	2.2	110/140	0,52/0,62	1440	12-22	30	21
TSZ 2	2x315	2.4	3	2500/3300	8,5/10,5	12	4.4	220/280	1/1,24	2040	12-22	30	35
TSZ 3	3x315	3.7	4.5	3750/4950	8,5/10,5	18	6.6	330/420	1,51/1,86	3240	16-28	30	48
TSZ 4	4x315	4.7	5.5	5000/6600	8,5/10,5	23	8.8	440/560	2/2,48	4500	16-28	30	64
TSZ 5	5x315	6.20	7.50	6250/8000	8,5/10,5	29	11	550/770	2,5/3,10	5400	16-42	30	78
TSZ 6	6x315	7.3	8.5	7500/9900	8,5/10,5	35	13.2	660/840	3/3,72	6780	16-42	30	92



ED = SBRINAMENTO ELETTRICO

SS = SENZA SBRINAMENTO

HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST

SS = WITHOUT DEFROST

HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

Umidità in cella 85%

Refrigerante R404A

Temperatura ingresso aria 0°C

Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

Real capacities with following use conditions:

Humidit in the cold room 85%

Refrigerant fluid R404A

Air entering temp. 0°C

Evaporating temp. -8°C = DT8K

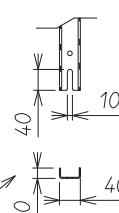
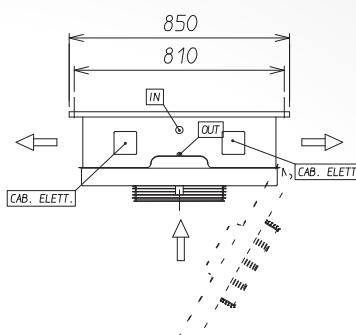
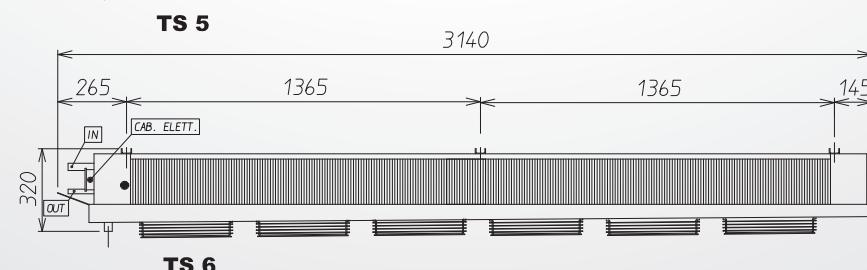
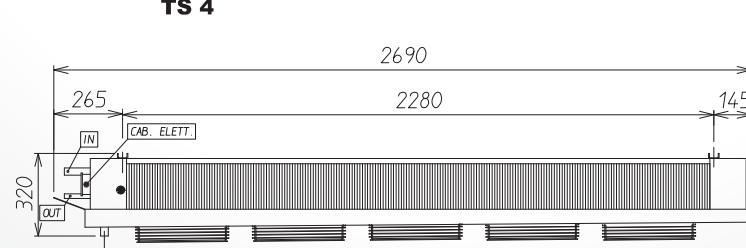
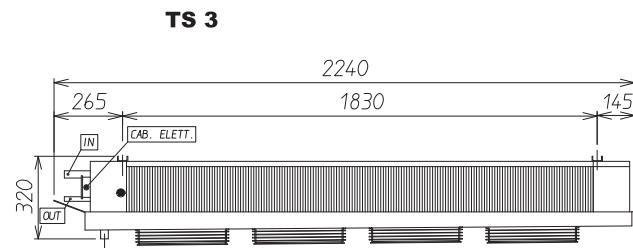
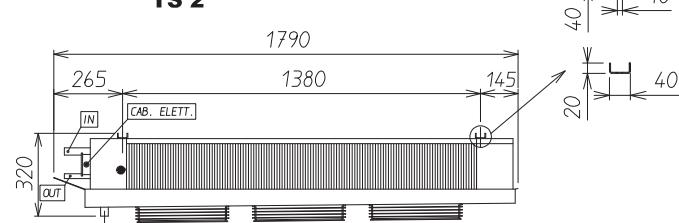
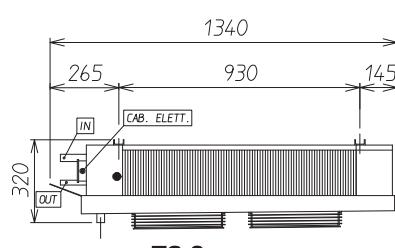
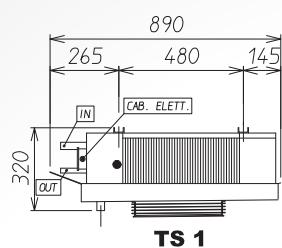
use externally equalized thermostatic expansion valve



TS/e



TS





MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS



Il Mod **TSU** è un evaporatore a doppio flusso d'aria, per applicazioni in celle frigorifere di altezza ridotta e sale di lavorazione. Il **Mod. TSHU** è adatto per congelamento e conservazione prodotto fresco, passo alette mm. 4,5. Il **Mod. TSUM** è adatto per congelamento e conservazione prodotto fresco e surgelato, passo alette mm. 6. Il **Mod. TSUZ** è adatto per congelamento e conservazione prodotto surgelato, passo alette mm. 11. **TSU HA MOTORE A DOPPIA VELOCITÀ HIGH/LOW** ø 350 monofase, 230v 1/50-60hz. **TSU- SS** = versione senza sbrinamento (consigliato fino a 2°C) **TSU- ED** = versione con sbrinamento elettrico (consigliato fino a -40°C), predisposti per il collegamento 400v/3/50-60hz. **TSU - HG** = sbrinamento gas caldo.



Le **Mod TSU** est un évaporateur à double flux de l'air, installation à plafond pour chambres à froid et salles de travail. Le **Mod. TSUH** est pour congélation et conservation du produit surgelé, écartement ailettes mm. 4,5. Le **Mod. TSUM** est pour congélation et conservation du produit frais et surgelé, écartement ailettes mm. 6. **Mod. TSUZ** est pour congélation et conservation produit surgelé, écartement ailettes mm. 11. **Mod. TSU HIGH/LOW AVEC MOTEURS À DOUBLE VITESSES** ø 315 monophase 230v 1/50-60hz. **TSU- SS** = sans dégivrage (recommandé jusqu'à 2°C) **TSU- ED** = avec dégivrage électrique (recommandé jusqu'à -40°C), prédisposition pour la connexion 400v/3/50-60hz. **TSU - HG** = dégivrage à gaz chaud.



The **MOD. TSU** is dual discharge cooler, recommended for cold rooms with reduced height and working rooms. **MOD. TSUH**: for fresh product storage, fin spacing mm. 4,5. **MOD. TSUM**: for fresh and frozen product storage, fin spacing mm. 6. **MOD. TSUZ**: for fresh and frozen product storage, fin spacing mm. 11. **MOD. TSU has HIGH/LOW fan WITH DOUBLE SPEED** motor ø 350mm., monophase ,230v/ 1/50-60hz. **TSU- SS** = without defrost (recommended till 2 °C) **TSU - ED** = with electrical defrost(recommended till -40°C),arranged for the connection 400v/3/50-60hz. **TSU - HG** = hot gas defrost



TSU - испаритель с двойной циркуляцией воздуха, предназначенный для использования в холодильных камерах небольшой высоты и разделочных залах. **МОД. TSUH** Рекомендован для хранения свежих продуктов, шаг лопастей 4,5 мм. **МОД. TSUM** Рекомендован для хранения свежих продуктов, шаг лопастей 6 мм. **МОД. TSUZ** Рекомендован для хранения свежих продуктов, шаг лопастей 11 мм. **МОД. TSU HIGH/LOW С ДВУХСКОРОСТНЫМ МОТОРОМ** ø 315 мм, монофазным, 230в 1/50-60Гц. **TSU - SS** = вариант без размораживания (рекомендуется до 2°C) **TSU - ED** = вариант с электрическим размораживанием (рекомендуется до -40°C), для сети 400в /3/50-60Гц. **TSU - HG** = размораживание горячим газом



ED = SBRINAMENTO ELETTRICO

SS = SENZA SBRINAMENTO

HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST

SS = WITHOUT DEFROST

HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

Umidità in cella 85%

Refrigerante R404A

Temperatura ingresso aria 0°C

Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

Real capacities with following use conditions:

Humidit in the cold room 85%

Refrigerant fluid R404A

Air entering temp. 0°C

Evaporating temp. -8°C = DT8K

use externally equalized thermostatic expansion valve


**MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS**


Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 4,5
M	2°C -18°C	mm 6,5
Z	0°C -40°C	mm 11

ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consu.	230V.	Sbrinam.	Attacchi	Scarico	db(A)	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consu.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.		Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm		Kg

RPM 1340 x2													
TSUH 135	1x350	4.8	2800	8	20	4	165	0.73	3900	12/22	30	71	30
TSUH 235	2x350	9.6	5600	9	40	8	330	1.46	5280	16/28	30	73	58
TSUH 335	3x350	14.4	8300	11	60	12	450	2.19	9000	22/35	30	76	84
TSUH 435	4x350	19.2	11200	11	80	16	660	2.92	10800	22/35	30	77	113
TSUH 535	5x350	24	14000	11	100	20	825	3.65	13560	22/35	30	78	142

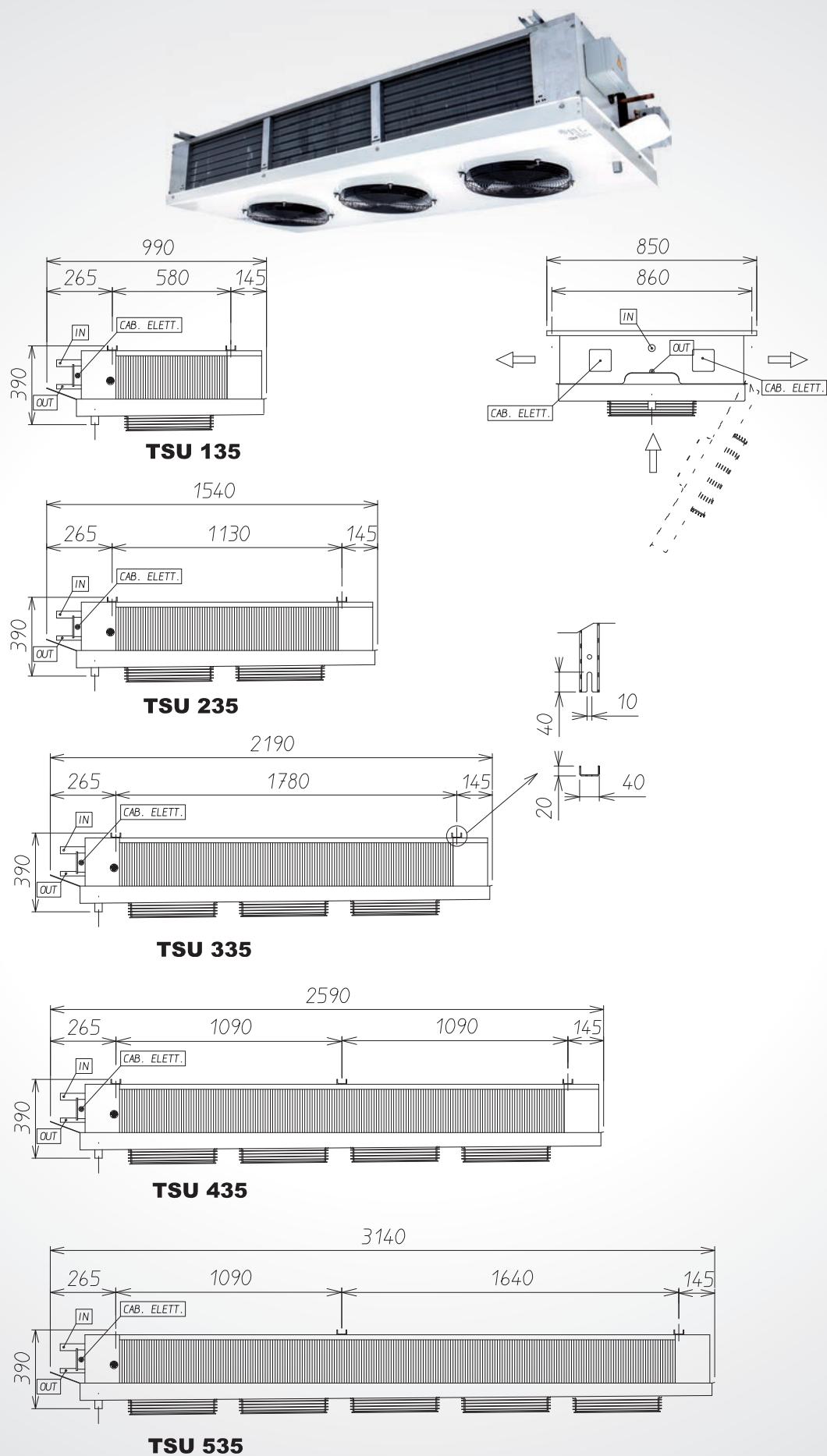
TSUM 135	1x350	4	2900	9	15	4	150	0.73	3900	12/22	30	71	28
TSUM 235	2x350	8	5800	10	30	8	300	1.46	5280	16/28	30	73	56
TSUM 335	3x350	12	8700	12	45	12	450	2.19	9000	22/35	30	76	80
TSUM 435	4x350	16	11600	12	60	16	600	2.92	10800	22/35	30	77	115
TSUM 535	5x350	20	14500	12	75	20	825	3.65	13560	22/35	30	78	139

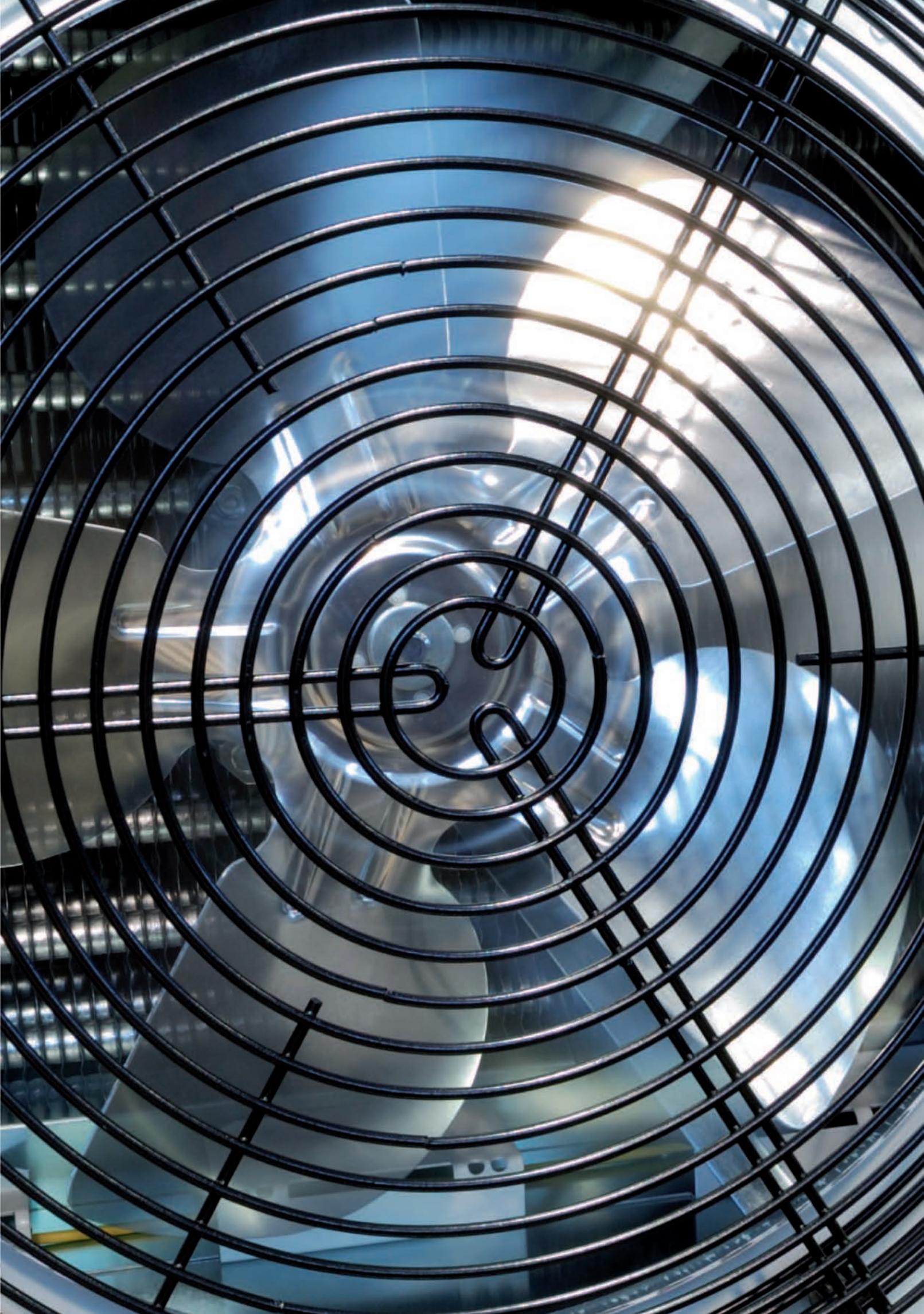
TSUZ 135	1x350	3	2900	9	10	4	150	0.73	3900	12/22	30	71	27
TSUZ 235	2x350	6	5800	10	20	8	300	1.46	5280	16/28	30	73	54
TSUZ 335	3x350	9	8700	12	30	12	450	2.19	9000	22/35	30	76	76
TSUZ 435	4x350	12	11600	12	40	16	600	2.92	10800	22/35	30	77	109
TSUZ 535	5x350	15	14500	12	50	20	825	3.65	13560	22/35	30	78	132

RPM 910 x2													
TSUH-L 135	1x350	3.9	2350	7	20	4	75	0.35	3900	12/22	30	64	30
TSUH-L 235	2x350	7.8	4700	8	40	8	150	0.7	5280	16/28	30	66	58
TSUH-L 335	3x350	11.7	7050	10	60	12	225	1.05	9000	22/35	30	69	84
TSUH-L 435	4x350	15.6	9400	10	80	16	300	1.4	10800	22/35	30	70	113
TSUH-L 535	5x350	19.5	11750	10	100	20	375	1.75	13560	22/35	30	71	142

Tsum-L135	1x350	3.5	2500	7	15	4	75	0.35	3900	12/22	30	64	28
Tsum-L235	2x350	7	5000	8	30	8	156	0.7	5280	16/28	30	66	56
Tsum-L335	3x350	10.5	7500	10	45	12	225	1.05	9000	22/35	30	69	80
Tsum-L435	4x350	14	10000	10	60	16	300	1.4	10800	22/35	30	70	115
Tsum-L535	5x350	17.5	12500	10	75	20	375	1.75	13560	22/35	30	71	139

TSUZ-L 135	1x350	2.5	2500	9	10	4	75	0.35	3900	12/22	30	64	27
TSUZ-L 235	2x350	5	5000	10	20	8	150	0.7	5280	16/28	30	66	54
TSUZ-L 335	3x350	7.5	7500	10	30	12	225	1.05	9000	22/35	30	69	76
TSUZ-L 435	4x350	10	10000	10	40	16	300	1.4	10800	22/35	30	70	109
TSUZ-L 535	5x350	12.5	12500	10	50	20	375	1.75	13560	22/35	30	71	132





Aeroevaporatori a doppio flusso d'aria

Evaporateur à double flux d'air

Dual discharge unit coolers

Воздушные испарители с двойной циркуляцией воздуха



L'evaporatore **Mod.LA** è un evaporatore a doppio flusso d'aria, per applicazioni in celle frigorifere ad altezza ridotta, per sale di lavorazione climatizzate che richiedano una bassa velocità di ricircolo d'aria. Il **Mod.LAH** è adatto per la conservazione del prodotto fresco, passo alette mm. 3,2. Il **Mod.LAM** è adatto per la conservazione del prodotto fresco e congelato, passo alette mm. 6. Il **Mod.LAL** è adatto per congelamento e conservazione di prodotto surgelato, passo alette mm. 8. **Mod. LA 1-2** con motore ø 250 monofase a poli schermati 230v 1/50-60 hz. **Mod. LA3-4-5-6**, con motore ø 300 monofase 230v 1/50-60 hz. **LA - SS** = versione senza sbrinamento (consigliato fino a 2°C) **LA - ED** = versione con sbrinamento elettrico (consigliato fino a -30°C) predisposti per il collegamento 400v/3/50-60hz.



Le Mod. **LA** est un évaporateur double flux d'air pour l'application dans chambres à froid , salles de travail pour une baisse vitesse de la circulation de l'air. Le Mod.**LAH** est pour la conservation du produit frais, écartement ailettes mm. 3,2. Le Mod.**LAM** est pour la conservation du produit frais et congelé, écartement ailettes mm. 6. Le Mod. **LAL** est pour congélation et conservation du produit surgelé , écartement ailettes mm. 8. Mod. **LA 1-2** avec moteur ø 250 monophase avec pôles masqués 230v 1/50-60 hz. Mod. **LA3-4-5-6**, avec moteur ø 300 monophase 230v 1/50-60 hz. **LA - SS** = sans dégivrage (jusqu'à a 2°C) **LA - ED** = avec dégivrage électrique (jusqu'à -30°C) arrangés pour la connexion 400v/3/50-60hz.

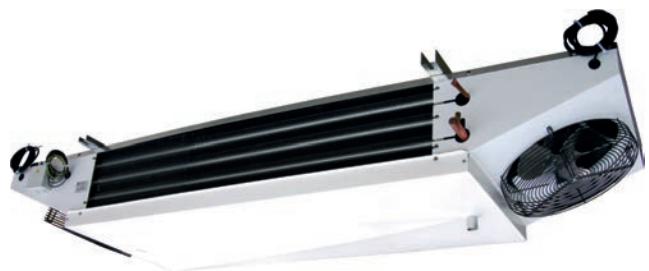


The **MOD.LA** is a dual discharge cooler, low velocity for cold rooms and working rooms air conditioning. **MOD.LAH** for fresh products storage , fin spacing mm. 3.2. **MOD.LAM** for fresh and frozen products storage, fin spacing mm. 6,00. **MOD.LAL** for freezing and frozen products storage fin spacing mm. 8,00. **MOD.LA 1-2** with ø 250 motors 1 phase with screened poles 230v 1/50- 60 hz. **MOD. LA 3-4-5-6** with ø 300 motors 1 phase with screened poles 230v 1/50-60 hz. **MOD. LA-SS**, without defrost (recommended till 2 °C) **MOD. LA-ED** with electrical defrost(recommended till -30°C), arranged for the connection 400v /3/50-60hz.



Испаритель **МОД.ЛА** является испарителем с двойной циркуляцией воздуха и предназначен для холодильных камер небольшой высоты, для разделочных залов с кондиционированием, где необходимо поддерживать низкую скорость циркуляции воздуха. **МОД.ЛАН** предназначена для хранения свежих продуктов, шаг лопастей 3,2 мм. **МОД.ЛАМ** рекомендуется для хранения свежих и замороженных продуктов, шаг лопастей 6,00 мм. **МОД.ЛАЛ** рекомендуется для замораживания и хранения быстрозамороженных продуктов, шаг лопастей 8,00 мм. **МОД. ЛА 1-2** с мотором ø 250 мм, монофазным с экранированными полюсами 230в 1/50-60Гц. **МОД.ЛА 3-4-5-6**, с мотором ø.300 мм, монофазным с экранированными полюсами 230в 1/50-60Гц. **ЛА - SS** = вариант без размораживания (рекомендуется до 2°C) **ЛА - ED** = вариант с электрическим размораживанием (рекомендуется до -30°C) для сети 400в/3/50-60Гц.

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 3,2
M	2°C -18°C	mm 6
L	0°C -30°C	mm 8



IT	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

				x2								
LAH 1	2x250	2.5	1700	3	16	3.3	140	0.86	1950	12-16	30	21
LAH 2	2x250	3.5	2000	3	24	4.8	140	0.86	2040	12-16	30	25
LAH 3	2x300	5	3400	3	32	6.4	260	1.6	2040	12-22	30	30
LAH 4	2x300	6	3500	3	43	8.3	260	1.6	3240	12-22	30	36
LAH 5	2x300	7.5	3650	3	64	12.1	260	1.6	4500	16-28	50	48
LAH 6	2x300	9	3600	3	96	18.01	260	1.6	4500	16-28	50	64

LAM 1	2x250	2	1900	3	9	3.3	140	0.86	1950	12-16	30	20
LAM 2	2x250	3	2150	3	13.4	4.8	140	0.86	2040	12-16	30	24
LAM 3	2x300	4	3550	3	17.08	6.4	260	1.6	2040	12-22	30	29
LAM 4	2x300	5	3650	3	23.8	8.3	260	1.6	3240	12-22	30	35
LAM 5	2x300	6	3700	3	35.7	12.1	260	1.6	4500	16-28	50	46
LAM 6	2x300	8	3670	3	53.5	18.01	260	1.6	4500	16-28	50	60

LAL 1	2x250	1.5	2000	4	7	3.3	140	0.86	1950	12-16	30	19
LAL 2	2x250	2	2200	4	10.3	4.8	140	0.86	2040	12-16	30	23
LAL 3	2x300	3	3600	4	13.08	6.4	260	1.6	2040	12-22	30	28
LAL 4	2x300	4	3700	4	18.4	8.3	260	1.6	3240	12-22	30	34
LAL 5	2x300	5	3750	4	27.6	12.1	260	1.6	4500	16-28	50	45
LAL 6	2x300	6	3700	4	41.4	18.01	260	1.6	4500	16-28	50	58



ED = SBRINAMENTO ELETTRICO

SS = SENZA SBRINAMENTO

HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST

SS = WITHOUT DEFROST

HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

Umidità in cella 85%

Refrigerante R404A

Temperatura ingresso aria 0°C

Temperatura evaporazione -8°C = DT8K

Real capacities with following use conditions:

Humidit in the cold room 85%

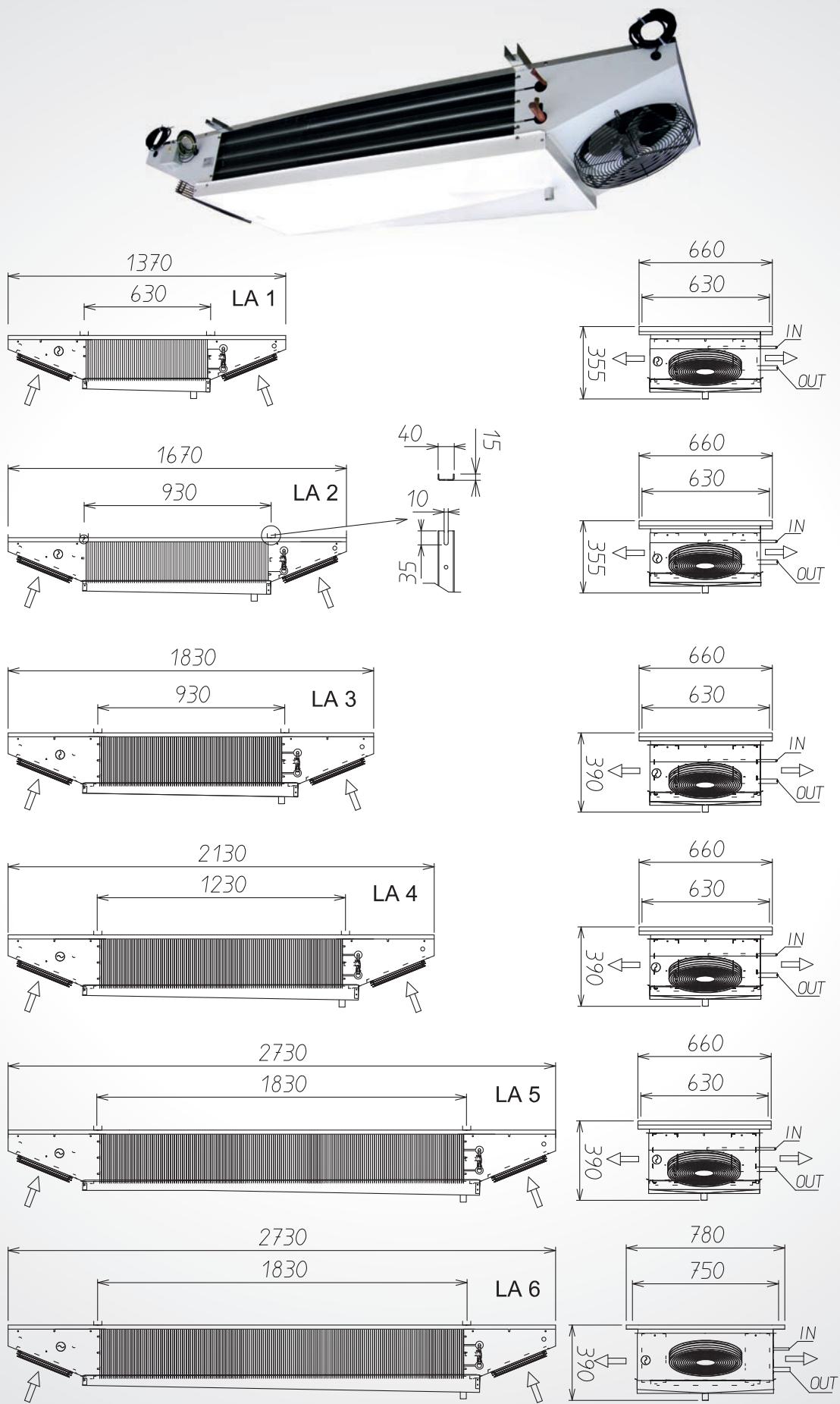
Refrigerant fluid R404A

Air entering temp. 0°C

Evaporating temp. -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

use externally equalized thermostatic expansion valve



Aeroevaporatori serie super kompakt

Evaporateur super compact

Semi-industrial unit coolers

Воздушные распылители серии супер компакт



Il **MODELLO ST** super Compact è un evaporatore semi industriale per celle frigorifere dove è richiesto il massimo rendimento in spazi contenuti. Il **MOD. STH** è adatto per la conservazione del prodotto fresco, passo alette mm. 4,00. Il **MOD. STM** è adatto per la conservazione del prodotto fresco e congelato, passo alette mm. 6,00. Il **MOD. STL** è adatto per il congelamento e conservazione del prodotto surgelato, passo alette mm. 8,00. Il **MOD. STZ** è adatto per il congelamento e conservazione del prodotto surgelato, passo alette mm. 11,00. **SERIE ST35:** con motore ø 350 mm. monofase 230v 1ph 50/60 hz **SERIE ST40:** con motore ø 400 mm. monofase 230v 1ph 50/60 hz. **SERIE ST45:** con motore ø 450 mm. 230v 1ph 50/60hz. **LA SERIE ST50:** con motore ø 500 mm. monofase 230v 1ph 50/60hz. **ST - SS** = versione senza sbrinamento (consigliato fino a 2°C) **ST - ED** = versione con sbrinamento elettrico (consigliato fino a -40°C), **ST-HG** = versione sbrinamento gas caldo più una resistenza elettrica nello sgocciolatoio.



Le mod. **ST** est un évaporateur semi-industriel pour chambre à froid, où on demande le maximum rendement dans petit espace. Le mod. **STH** pour la conservation du produit frais, écartement d'ailettes mm.4,00. Le mod. **STM** est pour la conservation du produit frais et congelé, écart. Ailettes mm. 6,00. Le mod. **STL** est pour la congélation et conservation du produit congelé, écart. Ailettes mm. 8,00. Le mod. **STZ** est pour la congélation et conservation du produit congelé, écart. Ailettes mm. 11. La **SERIE ST35** avec moteur diam 350 mm.monophase230v 1ph 50/60hz. La **SERIE ST40** avec moteur diam 400 mm.monophase230v 1ph 50/60hz La **SERIE ST50** avec moteur diam. 500 mm. Monophase 230v1ph 50/60hz. **ST-SS** = Sans dégivrage (recommandé jusqu'à 2°C); **ST-ED** = avec dégivrage électrique (recommandé jusqu'à -40°); **ST-HG** = avec dégivrage gaz chaud avec une résistance en plus dans l'égouttoir.



The **ST MODEL** is a semi-industrial cooler for cold rooms, where the maximum efficiency in reduced rooms is requested. **MOD. STH** for fresh products storage, fin spacing mm. 4,00. **MOD. STM** for fresh and frozen product storage, fin spacing mm. 6,00 **MOD. STL** for freezing and frozen product storage, fin spacing mm. 8,00.. **MOD. STZ** for freezing and frozen product storage, fin spacing mm. 11.**MODEL SERIE ST35** with motor ø 350 mm. 230v 1ph 50/60hz. **ST40** with motor ø 400 mm. 230v 1ph 50/60hz .**SERIE ST45** with motor ø 450 mm. 230v 1ph 50/60hz. **SERIE ST50** with motor ø 500 mm. 230v 1ph 50/60hz. **ST-SS** = without defrost (recommended till 2 °C) **SK/ST - ED** = with electrical defrost (recommended till -40°C), arranged for the connection 400v /3/50-60hz. **ST-HG** = hot gas defrost with one heater more in drip tray.



МОДЕЛЬ **ST** супер компакт полупромышленный испаритель для холодильных камер, в которых требуется максимально использовать ограниченный объем. **МОД. STH** предназначена для хранения свежих продуктов, шаг лопастей 4,00 мм. **МОД. STM** рекомендуется для хранения свежих и замороженных продуктов, шаг лопастей 6,00 мм **МОД. STL** рекомендуется для замораживания и хранения быстрозамороженных продуктов, шаг лопастей 8,00 мм. **МОД. STZ** рекомендуется для замораживания и хранения быстрозамороженных продуктов, шаг лопастей 11,00 мм. **СЕРИЯ ST350** с мотором ø 350 мм, монофазным, 230в 1/50-60Гц **СЕРИЯ ST40** с мотором ø 400 мм, монофазным, 230в 1/50-60Гц. **СЕРИЯ ST45** с мотором ø 450 мм, монофазным, 230в 1/50-60Гц. **СЕРИЯ ST50** с мотором ø 500 мм, монофазным, 230в 1/50/60Гц. **ST - SS**= вариант без размораживания (рекомендуется до 2°C). **ST - ED** = вариант с электрическим размораживанием (рекомендуется до -40°C для сети 400в /3/50-60Гц). **ST-HG** = размораживание горячим газом с одним нагревателем больше в поддон.



ED = SBRINAMENTO ELETTRICO

SS = SENZA SBRINAMENTO

HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST

SS = WITHOUT DEFROST

HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

Umidità in cella 85%

Refrigerante R404A

Temperatura ingresso aria 0°C

Temperatura evaporazione -8°C = DT8K

Real capacities with following use conditions:

Humidit in the cold room 85%

Refrigerant fluid R404A

Air entering temp. 0°C

Evaporating temp. -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

use externally equalized thermostatic expansion valve

ST 35

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
STH	10°C +2°C	mm 4
STM	2°C -18°C	mm 6
STL	0°C -30°C	mm 8
STZ	0°C -40°C	mm 11



ITALY UNITED KINGDOM	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Refrig.	Scarico	Peso
	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

STH 135-4	1x350	3.4	2450	15	15	2.6	175	0.77	1920	16/22	50	20
STH 135-6	1x350	4.5	2300	14	23	4	175	0.77	1920	16/22	50	22
STH 235-4	2x350	6.8	4900	15	30	5.2	350	1.54	2750	16/28	50	39
STH 235-6	2x350	9	4600	14	46	8	350	1.54	2750	16/28	50	42
STH 335-4	3x350	10.2	7350	15	45	7.8	525	2.31	4350	16/28	50	59
STH 335-6	3x350	13.5	6900	14	69	12	525	2.31	4350	16/28	50	63
STH 435-4	4x350	13.6	9800	15	60	10.4	700	3.08	6000	16/28	50	77
STH 435-6	4x350	18	9200	14	92	16	700	3.08	6000	16/28	50	82

STM 135-4	1x350	2.8	2450	15	10.6	2.6	175	0.77	1920	16/22	50	19
STM 135-6	1x350	3.8	2300	14	16	4	175	0.77	1920	16/22	50	21
STM 235-4	2x350	5.6	4900	15	21.2	5.2	350	1.54	2750	16/28	50	37
STM 235-6	2x350	7.6	4600	14	32	8	350	1.54	2750	16/28	50	40
STM 335-4	3x350	8.4	7350	15	31.8	7.8	525	2.31	4350	16/28	50	55
STM 335-6	3x350	11.4	6900	14	48	12	525	2.31	4350	16/28	50	59
STM 435-4	4x350	11.2	9800	15	42.4	10.4	700	3.08	6000	16/28	50	74
STM 435-6	4x350	15.2	9200	14	64	16	700	3.08	6000	16/28	50	79

STL 135-4	1x350	2.5	2600	17	8.7	2.6	175	0.77	1920	16/22	50	18
STL 135-6	1x350	3.4	2450	16	13	4	175	0.77	1920	16/22	50	20
STL 235-4	2x350	5	5200	17	17.4	5.2	350	1.54	2750	16/28	50	35
STL 235-6	2x350	6.8	4900	16	26	8	350	1.54	2750	16/28	50	38
STL 335-4	3x350	7.5	7800	17	26.1	7.8	525	2.31	4350	16/28	50	53
STL 335-6	3x350	10.2	7350	16	39	12	525	2.31	4350	16/28	50	57
STL 435-4	4x350	10	10400	17	34.8	10.4	700	3.08	6000	16/28	50	69
STL 435-6	4x350	13.6	9800	16	52	16	700	3.08	6000	16/28	50	74

STZ 135-4	1x350	2.1	2600	17	7.3	2.6	175	0.77	1920	16/22	50	18
STZ 135-6	1x350	2.9	2450	16	11	4	175	0.77	1920	16/22	50	20
STZ 235-4	2x350	4.2	5200	17	14.6	5.2	350	1.54	2750	16/28	50	35
STZ 235-6	2x350	5.8	4900	16	22	8	350	1.54	2750	16/28	50	38
STZ 335-4	3x350	6.3	7800	17	21.9	7.8	525	2.31	4350	16/28	50	53
STZ 335-6	3x350	8.7	7350	16	33	12	525	2.31	4350	16/28	50	57
STZ 435-4	4x350	8.4	10400	17	29.2	10.4	700	3.08	6000	16/28	50	69
STZ 435-6	4x350	11.6	9800	16	44	16	700	3.08	6000	16/28	50	74

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 4
M	2°C -18°C	mm 6
L	0°C -30°C	mm 8
Z	0°C -40°C	mm 11



IT	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

STH 140-4	1x400	3.7	3150	15	15	2.6	240	1.06	1920	16/22	50	21
STH 140-6	1x400	5.5	3150	14	23	4	240	1.06	1920	16/22	50	23
STH 240-4	2x400	7.4	6300	15	30	5.2	480	2.12	2750	16/28	50	40
STH 240-6	2x400	11	6300	14	46	8	480	2.12	2750	16/28	50	43
STH 340-4	3x400	11.1	9450	15	45	7.8	720	3.18	4350	16/28	50	60
STH 340-6	3x400	16.5	9450	14	69	12	720	3.18	4350	16/28	50	64
STH 440-4	4x400	14.8	12600	15	60	10.4	960	4.24	6000	16/28	50	78
STH 440-6	4x400	22	12600	14	92	16	960	4.24	6000	16/28	50	83

STM 140-4	1x400	3.3	3150	15	10.6	2.6	240	1.06	1920	16/22	50	20
STM 140-6	1x400	4.6	3150	14	16	4	240	1.06	1920	16/22	50	22
STM 240-4	2x400	6.6	6300	15	21.2	5.2	480	2.12	2750	16/28	50	38
STM 240-6	2x400	9.2	6300	14	32	8	480	2.12	2750	16/28	50	41
STM 340-4	3x400	9.9	9450	15	31.8	7.8	720	3.18	4350	16/28	50	56
STM 340-6	3x400	13.8	9450	14	48	12	720	3.18	4350	16/28	50	60
STM 440-4	4x400	13.2	12600	15	42.4	10.4	960	4.24	6000	16/28	50	75
STM 440-6	4x400	18.4	12600	14	64	16	960	4.24	6000	16/28	50	80

STL 140-4	1x400	2.8	3200	17	8.7	2.6	240	1.06	1920	16/22	50	19
STL 140-6	1x400	3.9	3200	16	13	4	240	1.06	1920	16/22	50	21
STL 240-4	2x400	5.6	6400	17	17.4	5.2	480	2.12	2750	16/28	50	36
STL 240-6	2x400	7.8	6400	16	26.1	8	480	2.12	2750	16/28	50	39
STL 340-4	3x400	8.4	9600	17	26	7.8	720	3.18	4350	16/28	50	54
STL 340-6	3x400	11.7	9600	16	39	12	720	3.18	4350	16/28	50	58
STL 440-4	4x400	11.2	12800	17	34.8	10.4	960	4.24	6000	16/28	50	70
STL 440-6	4x400	15.6	12800	16	52	16	960	4.24	6000	16/28	50	75

STZ 140-4	1x400	2.4	3200	17	7.3	2.6	240	1.06	1920	16/22	50	19
STZ 140-6	1x400	3.5	3200	16	11	4	240	1.06	1920	16/22	50	21
STZ 240-4	2x400	4.8	6400	17	14.6	5.2	480	2.12	2750	16/28	50	36
STZ 240-6	2x400	7	6400	16	22	8	480	2.12	2750	16/28	50	39
STZ 340-4	3x400	7.2	9600	17	21.9	7.8	720	3.18	4350	16/28	50	54
STZ 340-6	3x400	10.5	9600	16	33	12	720	3.18	4350	16/28	50	58
STZ 440-4	4x400	9.6	12800	17	29.2	10.4	960	4.24	6000	16/28	50	70
STZ 440-6	4x400	14	12800	16	44	16	960	4.24	6000	16/28	50	75

ST 45

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 4
M	2°C -18°C	mm 6
L	0°C -30°C	mm 8
Z	0°C -40°C	mm 11



ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

STH 145-4	1x450	6	4800	26	29	4.7	750	2.96	3600	16/28	50	39
STH 145-6	1x450	9	4800	25	43	7	750	2.96	3600	16/28	50	41
STH 245-4	2x450	12	9600	26	58	9.4	1500	5.92	6500	16/28	50	77
STH 245-6	2x450	18	9600	25	86	14	1500	5.92	6500	16/28	50	80
STH 345-4	3x450	18	14400	26	87	14	2250	8.88	9000	16/28	50	116
STH 345-6	3x450	27	14400	25	129	21	2250	8.88	9000	16/28	50	120
STH 445-4	4x450	24	19200	26	116	18.7	3000	11.84	13560	16/35	50	155
STH 445-6	4x450	36	19200	25	172	28	3000	11.84	13560	16/35	50	160
STH 545-4	5x450	30	24000	26	145	23.5	3750	14.8	13560	16/35	50	194
STH 545-6	5x450	45	24000	25	215	35	3750	14.8	13560	16/35	50	204

STM 145-4	1x450	4.9	4900	27	20	4.7	750	2.96	3600	16/28	50	35
STM 145-6	1x450	7.3	4900	26	30	7	750	2.96	3600	16/28	50	37
STM 245-4	2x450	9.8	9800	27	40	9.4	1500	5.92	6500	16/28	50	70
STM 245-6	2x450	14.6	9800	26	60	14	1500	5.92	6500	16/28	50	73
STM 345-4	3x450	14.7	14700	27	60	14	2250	8.88	9000	16/28	50	104
STM 345-6	3x450	21.9	14700	26	90	21	2250	8.88	9000	16/28	50	108
STM 445-4	4x450	19.6	19600	27	80	18.7	3000	11.84	13560	16/35	50	139
STM 445-6	4x450	29.2	19600	26	120	28	3000	11.84	13560	16/35	50	144
STM 545-4	5x450	24.5	24500	27	100	23.5	3750	14.8	13560	16/35	50	174
STM 545-6	5x450	36.5	24500	26	150	35	3750	14.8	13560	16/35	50	184

STL 145-4	1x450	4.2	5000	28	16	4.7	750	2.96	3600	16/28	50	34
STL 145-6	1x450	6.3	5000	27	23	7	750	2.96	3600	16/28	50	36
STL 245-4	2x450	8.4	10000	28	32	9.4	1500	5.92	6500	16/28	50	68
STL 245-6	2x450	12.6	10000	27	46	14	1500	5.92	6500	16/28	50	70
STL 345-4	3x450	12.6	15000	28	48	14	2250	8.88	9000	16/28	50	102
STL 345-6	3x450	18.9	15000	27	69	21	2250	8.88	9000	16/28	50	105
STL 445-4	4x450	16.8	20000	28	64	18.7	3000	11.84	13560	16/35	50	135
STL 445-6	4x450	25.2	20000	27	92	28	3000	11.84	13560	16/35	50	140
STL 545-4	5x450	21	25000	26	80	23.5	3750	14.8	13560	16/35	50	169
STL 545-6	5x450	31.5	25000	25	115	35	3750	14.8	13560	16/35	50	179

STZ 145-4	1x450	3.9	5000	28	13	4.7	750	2.96	3600	16/28	50	34
STZ 145-6	1x450	5.8	5000	27	19	7	750	2.96	3600	16/28	50	36
STZ 245-4	2x450	7.8	10000	28	26	9.4	1500	5.92	6500	16/28	50	68
STZ 245-6	2x450	11.6	10000	27	38	14	1500	5.92	6500	16/28	50	70
STZ 345-4	3x450	11.7	15000	28	39	14	2250	8.88	9000	16/28	50	102
STZ 345-6	3x450	17.4	15000	27	57	21	2250	8.88	9000	16/28	50	105
STZ 445-4	4x450	15.6	20000	28	52	18.7	3000	11.84	13560	16/35	50	135
STZ 445-6	4x450	23.2	20000	27	76	28	3000	11.84	13560	16/35	50	140
STZ 545-4	5x450	19.5	25000	26	65	23.5	3750	14.8	13560	16/35	50	169
STZ 545-6	5x450	29	25000	25	95	35	3750	14.8	13560	16/35	50	179

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 4
M	2°C -18°C	mm 6
L	0°C -30°C	mm 8
Z	0°C -40°C	mm 11



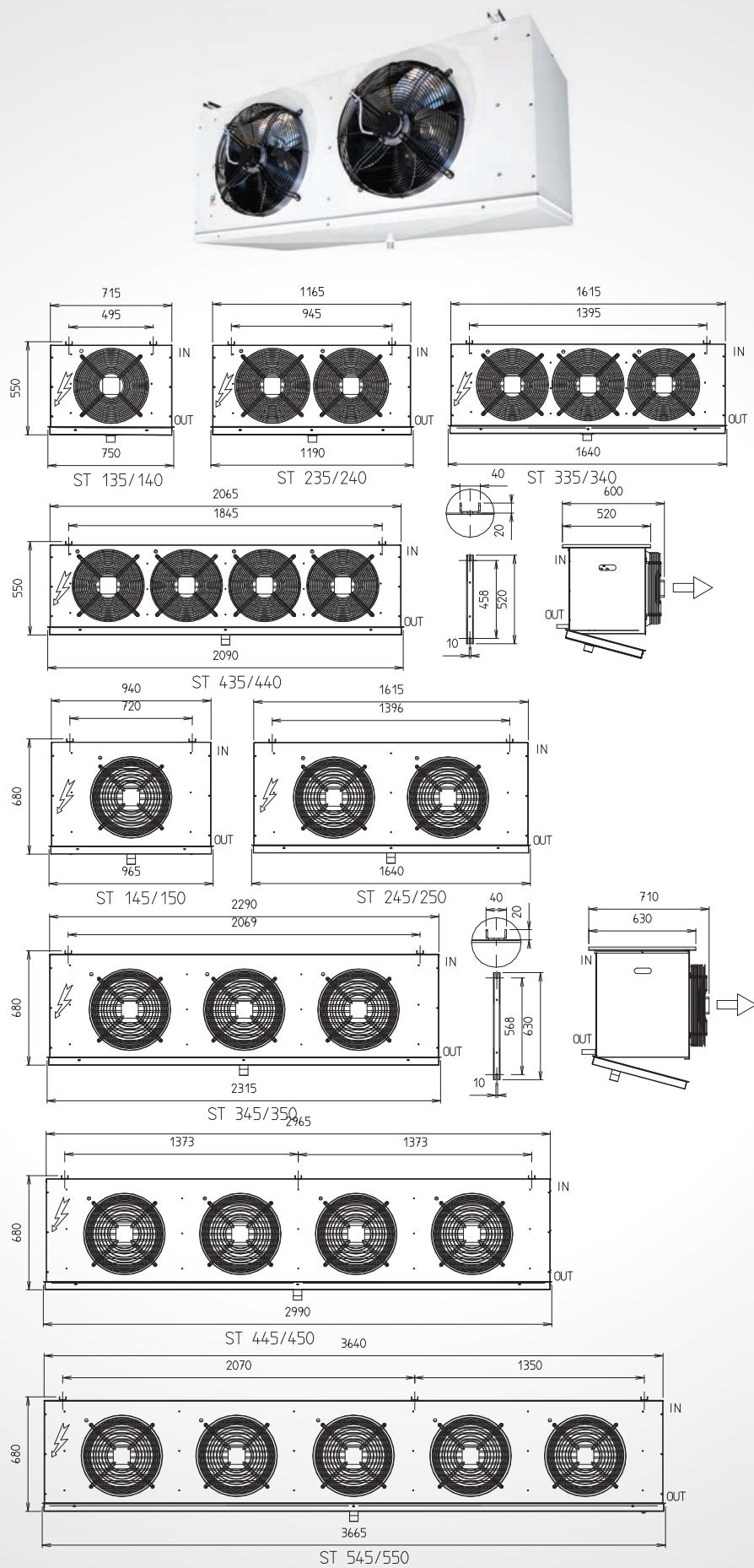
ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	230V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

STH 150-6	1x500	9.4	7500	31	43	7.5	880	3.88	3600	16/28	50	45
STH 150-8	1x500	12.5	7500	31	58	10	880	3.88	3600	16/28	50	47
STH 250-6	2x500	18.8	15000	31	86	15	1760	7.76	6500	16/28	50	89
STH 250-8	2x500	25	15000	31	116	20	1760	7.76	6500	16/28	50	92
STH 350-6	3x500	28.2	22500	31	129	22.5	2640	11.64	9000	16/35	50	132
STH 350-8	3x500	37.5	22500	31	174	30	2640	11.64	9000	16/35	50	136
STH 450-6	4x500	37.6	30000	31	172	30	3520	15.52	13560	16/35	50	179
STH 450-8	4x500	50	30000	31	232	40	3520	15.52	13560	16/35	50	184
STH 550-6	5X500	47	37500	31	215	37.5	4400	19.4	13560	16/35	50	224
STH 550-8	5X500	62.5	37500	31	290	50	4400	19.4	13560	16/35	50	234

STM 150-6	1x500	7.9	7600	33	30	7.5	880	3.88	3600	16/28	50	41
STM 150-8	1x500	10.5	7600	33	40	10	880	3.88	3600	16/28	50	43
STM 250-6	2x500	15.8	15200	33	60	15	1760	7.76	6500	16/28	50	82
STM 250-8	2x500	21	15200	33	80	20	1760	7.76	6500	16/28	50	85
STM 350-6	3x500	23.7	22800	33	90	22.5	2640	11.64	9000	16/35	50	118
STM 350-8	3x500	31.5	22800	33	120	30	2640	11.64	9000	16/35	50	121
STM 450-6	4x500	31.6	30400	33	120	30	3520	15.52	13560	16/35	50	164
STM 450-8	4x500	42	30400	33	160	40	3520	15.52	13560	16/35	50	168
STM 550-6	5X500	39.5	38000	33	150	37.5	4400	19.4	13560	16/35	50	204
STM 550-8	5X500	52.5	38000	33	200	50	4400	19.4	13560	16/35	50	214

STL 150-6	1x500	7.2	7800	34	23	7.5	880	3.88	3600	16/28	50	40
STL 150-8	1x500	9.5	7800	34	31	10	880	3.88	3600	16/28	50	42
STL 250-6	2x500	14.4	15600	34	46	15	1760	7.76	6500	16/28	50	79
STL 250-8	2x500	19	15600	34	62	20	1760	7.76	6500	16/28	50	82
STL 350-6	3x500	21.6	23400	34	69	22.5	2640	11.64	9000	16/35	50	116
STL 350-8	3x500	28.5	23400	34	93	30	2640	11.64	9000	16/35	50	120
STL 450-6	4x500	28.8	31200	34	92	30	3520	15.52	13560	16/35	50	160
STL 450-8	4x500	38	31200	34	124	40	3520	15.52	13560	16/35	50	164
STL 550-6	5x500	36	39000	34	115	37.5	4400	19.4	13560	16/35	50	199
STL 550-8	5x500	47.5	39000	34	155	50	4400	19.4	13560	16/35	50	209

STZ 150-6	1x500	6.4	7800	34	20	7.5	880	3.88	3600	16/28	50	40
STZ 150-8	1x500	8.5	7800	34	26	10	880	3.88	3600	16/28	50	42
STZ 250-6	2x500	12.8	15600	34	40	15	1760	7.76	6500	16/28	50	79
STZ 250-8	2x500	17	15600	34	52	20	1760	7.76	6500	16/28	50	82
STZ 350-6	3x500	19.2	23400	34	60	22.5	2640	11.64	9000	16/35	50	116
STZ 350-8	3x500	25.5	23400	34	78	30	2640	11.64	9000	16/35	50	120
STZ 450-6	4x500	25.6	31200	34	80	30	3520	15.52	13560	16/35	50	160
STZ 450-8	4x500	34	31200	34	104	40	3520	15.52	13560	16/35	50	164
STZ 550-6	5x500	32	39000	34	100	37.5	4400	19.4	13560	16/35	50	199
STZ 550-8	5x500	42.5	39000	34	130	50	4400	19.4	13560	16/35	50	209



Aeroevaporatori serie industriale

Evaporateur cubique industrial

Industrial unit coolers

Воздушные испарители промышленной серии

MOTORI DOPPIA VELOCITA DOUBLE SPEED MOTORS



Il **Modello KA** è un evaporatore industriale per grandi celle frigorifere e magazzini refrigerati per la conservazione di prodotti freschi e congelati. **Mod. KAH** è adatto per la conservazione del prodotto fresco, passo alette mm. 4,00. **Mod. KAM** è adatto per la conservazione di prodotto fresco e congelato, passo alette mm. 6,00. **Mod. KAL** è adatto per congelamento e conservazione di prodotto surgelato, passo alette mm. 10,00. **KA 1/2/3/4-50** con motore ø 500mm., trifase, 400V/3/50hz. **KA 1/2/3/4-56** con motore ø 560mm., trifase, 400V/3/50hz a doppia velocità . **KA 1/2/3/4-63** con motore ø 630mm., trifase, 400V/3/50hz a doppia velocità. **KA 1/2/3/4-80** con motore ø 800mm., trifase, 400V/3/50hz a doppia velocità. **KA - SS** = versione senza sbrinamento (consigliato fino a 2°C). **KA - ED** = versione con sbrinamento elettrico (consigliato fino a -40°C) predisposti per il collegamento 400V/ 3/50hz. **KA HG** = sbrinamento a gas caldo più una resistenza elettrica nello sgocciolatoio. **KA - WD** = versione con diffusore per sbrinamento a pioggia d'acqua.



le **Model KA** est un évaporateur industriel pour grandes chambres à froid et entrepôts pour la réfrigération pour la conservation des produits frais et congelés. **Mod. KAH** est pour la conservation du produit frais, écartement ailettes mm. 4,00 **Mod. KAM** est pour la conservation de produit frais et congelés, écartement ailettes mm. 6,00. **Mod. KAL** est pour la congélation et la conservation du produit congelé, écartement ailettes mm. 10,00. **KA 1/2/3/4-50** avec moteur ø 500mm., 3phase, 400V/3/50hz. **KA 1/2/3/4-56** avec motoventilateur ø 560mm., 3phase, 400V/3/50hz double vitesse . **KA 1/2/3/4-63** avec motoventilateur ø 630mm., 3phase, 400V/3/50hz double vitesse. **KA 1/2/3/4-80** avec motoventilateur ø 800mm., 3phase, 400V/3/50hz double vitesse. **KA - SS** = sans dégivrage (recommandé jusqu'à 2°C). **KA - ED** = avec dégivrage électrique (recommandé jusqu'à -40°C) prédisposition pour la connexion 400V/3/50hz. **KA HG** = Avec dégivrage à l'eau.



The **MODEL KA** is an industrial cooler for big cold rooms and refrigerating stores. **MOD. KAH** for fresh product storage, fin spacing mm. 4,00 **MOD. KAM** for fresh and frozen product storage, fin spacing mm. 6,00. **MOD. KAL** for freezing and frozen product storage, fin spacing mm. 10,00. **MOD. KA 1/2/3/4-50** with motor ø 500mm., 400v/3/50hz double speed. **MOD. KA 1/2/3/4-56** with ø diam. 560mm., 400v 3/50 hz double speed. **MOD. KA 1/2/3/4-63** with ø diam. 630mm., 400v/3/50 hz double speed. **MOD. KA KA 1/2/3/4-80** with ø diam. 800mm., 400v/3/50 hz double speed. **KA - SS** = without defrost (recommended till 2 °C) **KA - ED** = with electrical defrost (recommended till -40°C) arranged for the connection 400V/3/50hz. **KA HG** = hot gas defrost with one heater more in drip tray. **KA - WD** = water defrost



КА - промышленный испаритель для больших холодильных камер складов-холодильников, где хранятся свежие и замороженные продукты. **МОД. КАН** предназначена для хранения свежих продуктов, шаг лопастей 4,00 мм. **МОД. КАМ** рекомендуется для хранения свежих и замороженных продуктов, шаг лопастей 6,00 мм **МОД. КАЛ** рекомендуется для замораживания и хранения быстрозамороженных продуктов, шаг лопастей 10 мм. **СЕРИЯ КА 1/2/3/4-50** с трехфазным двухскоростным мотором ø 500 мм, 400в/3/50Гц, **СЕРИЯ КА 1/2/3/4-56** с трехфазным двухскоростным мотором ø 560 мм, 400в/3/50Гц. **СЕРИЯ КА 1/2/3/4-63** с трехфазным двухскоростным мотором ø 630 мм, 400в/3/50Гц. **СЕРИЯ КА 1/2/3/4-80** с трехфазным двухскоростным мотором ø 800 мм, 400в/3/50Гц. **КА - SS** = вариант без размораживания (рекомендуется до 2°C). **КА - ED** = вариант с электрическим размораживанием (рекомендуется до -40°C), для сети 400в /3/50-60Гц. **КА HG** = размораживание горячим газом с одним нагревателем больше в поддоне. **КА - WD** = вариант с диффузором для размораживания водяным дождем.

KA 50

MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
KAH	10°C +2°C	mm 4
KAM	2°C -18°C	mm 6
KAL	0°C -40°C	mm 10



ITALY	Motori	KW	Aria	Freccia	Superficie	Vol. Int.	Consumo	400V.	Sbrinam	Sbrin Acqua	Attacco WD	Attacchi	Scarico	Peso
UK	Motor	DT1=8K	Volume	Arrow	Surface	Volu.	Consum.	3ph 50hz	Defrost	Water Defrost	T.C.	In/Out	Drain	W.
MODEL	N° x D	R404A	m³/h	mt.	m²	dm³	W	A	ED W	WD I/h	WD gas	D.mm	D.mm	Kg

KAH 150-6	1x500	16	7400	36	70	12	780/550	1,35/0,94	4100	2000	1"1/4	16-35	50	69
KAH 250-4	2x500	21	15200	36	93	16	1560/1100	2,7/1,88	4200	2800	1"1/4	16-35	50	118
KAH 250-6	2x500	29	15000	36	140	24	1560/1100	2,7/1,88	6300	4000	1"1/4	22-42	50	139
KAH 250-8	2x500	35	14800	35	186	32	1560/1100	2,7/1,88	6300	5400	1"1/4	22-42	50	159
KAH 350-6	3x500	44	22800	36	211	36	2340/1650	4,05/2,82	13500	6800	1"1/4	28-54	70	197
KAH 350-8	3x500	52	22200	35	281	48	2340/1650	4,05/2,82	13500	8000	1"1/4	28-54	70	255
KAH 450-8	4x500	60	29600	35	281	48	3120/2200	5,4/3,76	13500	8000	1"1/4	28-54	70	265

KAM 150-6	1x500	14	7600	37	48	12	780/550	1,35/0,94	4100	2000	1"1/4	16-35	50	66
KAM 250-4	2x500	17	15600	37	64	16	1560/1100	2,7/1,88	4200	2800	1"1/4	16-35	50	114
KAM 250-6	2x500	24	15400	37	96	24	1560/1100	2,7/1,88	6300	4000	1"1/4	22-42	50	133
KAM 250-8	2x500	29	15200	36	128	32	1560/1100	2,7/1,88	6300	5400	1"1/4	22-42	50	151
KAM 350-6	3x500	36	23400	37	145	36	2340/1650	4,05/2,82	13500	6800	1"1/4	28-54	70	188
KAM 350-8	3x500	44	22800	36	193	48	2340/1650	4,05/2,82	13500	8000	1"1/4	28/54	70	215
KAM 450-8	4x500	50	30400	36	193	48	3120/2200	5,4/3,76	13500	8000	1"1/4	28/54	70	225

KAL 150-6	1x500	12	7800	38	34	12	780/550	1,35/0,94	4100	2000	1"1/4	16-35	50	65
KAL 250-4	2x500	14	16000	38	45	16	1560/1100	2,7/1,88	4200	2800	1"1/4	16-35	50	112
KAL 250-6	2x500	20	15800	38	67	24	1560/1100	2,7/1,88	6300	4000	1"1/4	22-42	50	130
KAL 250-8	2x500	23	15600	37	90	32	1560/1100	2,7/1,88	6300	5400	1"1/4	22-42	50	148
KAL 350-6	3x500	28	24000	38	93	36	2340/1650	4,05/2,82	13500	6800	1"1/4	28/54	70	184
KAL 350-8	3x500	37	23400	37	123	48	2340/1650	4,05/2,82	13500	8000	1"1/4	28/54	70	210
KAL 450-8	4x500	42	31200	37	123	48	3120/2200	5,4/3,76	13500	8000	1"1/4	28/54	70	220

Livello potenza sonora -Sound power level				
Motori/Motors				
N°	1	2	3	4
Db (A) Tot.	80	83	85	86

ED = SBRINAMENTO ELETTRICO
 SS = SENZA SBRINAMENTO
 HG = SBRINAMENTO GAS CALDO

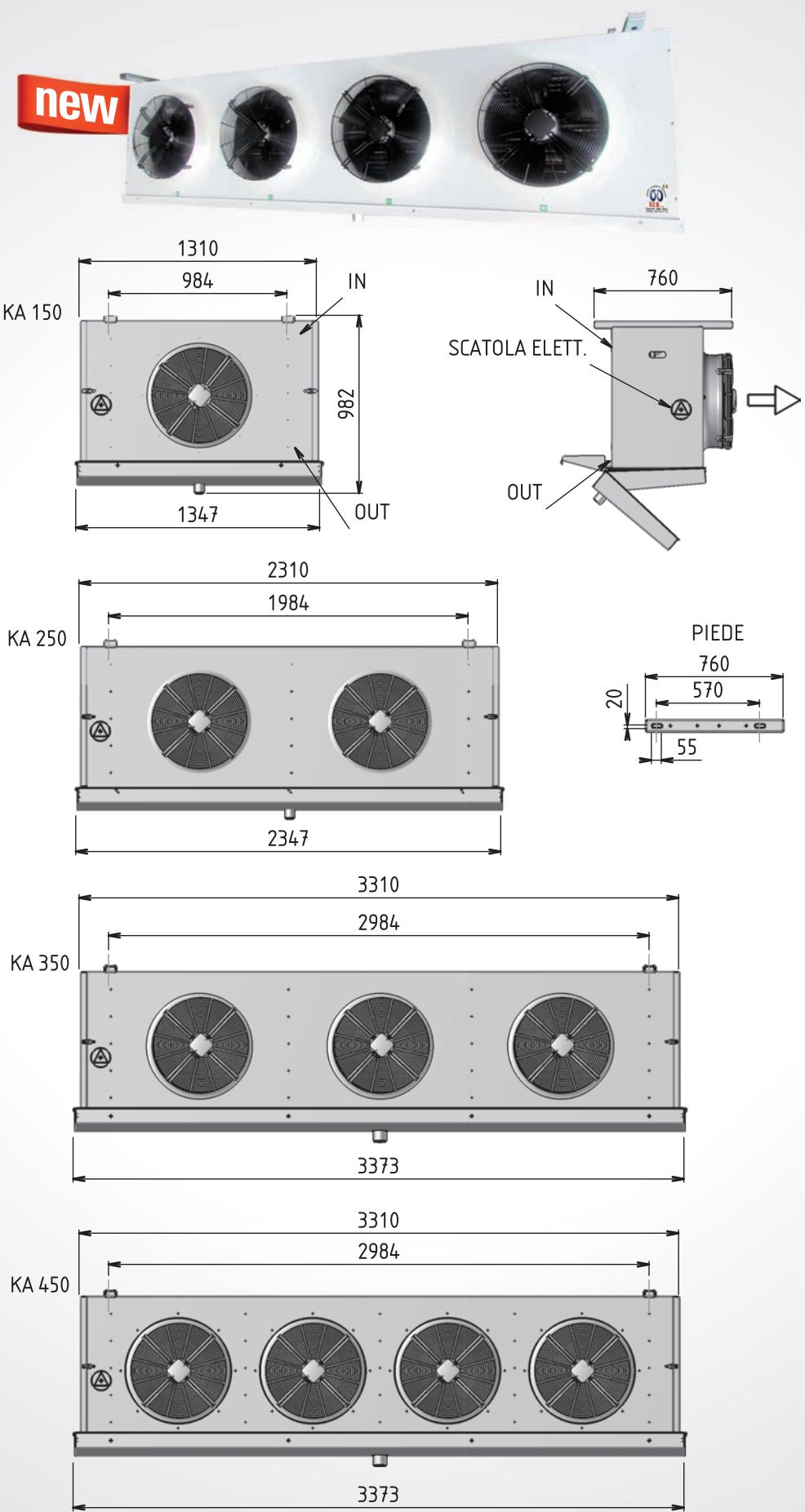
ED = ELECTRIC DEFROST
 SS = WITHOUT DEFROST
 HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno
WD Sbrinamento ad acqua

Real capacities with following use conditions:
Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8°C = DT8K

use externally equalized thermostatic expansion valve
WD Water defrost



KA 56

MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
KAH	10°C +2°C	mm 4
KAM	2°C -18°C	mm 6
KAL	0°C -40°C	mm 10



new



ITALY	Motori	KW	Aria	Freccia	Superficie	Vol. Int.	Consumo	400V.	Sbrinam	Sbrin Acqua	Attacco WD	Attacchi	Scarico	Peso
UK	Motor	DT1=8K	Volume	Arrow	Surface	Volu.	Consum.	3ph 50hz	Defrost	Water Defrost	T.C.	In/Out	Drain	W.
MODEL	N° x D	R404A	m³/h	mt.	m²	dm³	W	A	ED W	WD l/h	WD gas	D.mm	D.mm	Kg

KAH 156-8	1x560	23	10000	35	130	23	1000/600	1,80/0,95	6120	3150	1"1/4	28-54	70	160
KAH 256-8	2x560	47	20000	35	260	45	2000/1200	3,6/1,9	8400	7000	1"1/4	28-54	70	290
KAH 356-8	3x560	64	31000	35	393	67	3000/1800	5,4/2,85	18000	9500	1"1/4	35-54	70	326
KAH 356-10	3x560	81	30100	34	491	84	3000/1800	5,4/2,85	22500	10500	1"1/4	35-64	70	413
KAH 456-10	4x560	102	40100	34	566	97	4000/2400	7,2/3,8	22500	12500	2x1"1/4	35-64	70	500

KAM 156-8	1x560	20	10500	39	90	23	1000/600	1,80/0,95	6120	3150	1"1/4	25-54	70	143
KAM 256-8	2x560	39	21000	39	179	45	2000/1200	3,6/1,9	8400	7000	1"1/4	28-54	70	255
KAM 356-8	3x560	63	31500	39	270	67	3000/1800	5,4/2,85	18000	9500	1"1/4	35-54	70	310
KAM 356-10	3x560	70	30700	37	340	84	3000/1800	5,4/2,85	22500	10500	1"1/4	35-64	70	388
KAM 456-10	4x560	87	41000	37	390	97	4000/2400	7,2/3,8	22500	12500	2x1"1/4	35-64	70	470

KAL 156-8	1x560	18	10900	40	57	23	1000/600	1,80/0,95	6120	3150	1"1/4	28-54	70	140
KAL 256-8	2x560	35	21800	40	114	45	2000/1200	3,6/1,9	8400	7000	1"1/4	28-54	70	250
KAL 356-8	3x560	51	32700	40	173	67	3000/1800	5,4/2,85	18000	9500	1"1/4	35-54	70	303
KAL 356-10	3x560	62	31300	38	240	84	3000/1800	5,4/2,85	22500	10500	1"1/4	35-64	70	378
KAL 456-10	4x560	71	41800	38	272	97	4000/2400	7,2/3,8	22500	12500	2x1"1/4	35-64	70	460

		Livello potenza sonora -Sound power level					
Motori/Motors	N°	1	2	3	4		
	Db (A) Tot.	82	85	87	88		



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO
HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST
HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

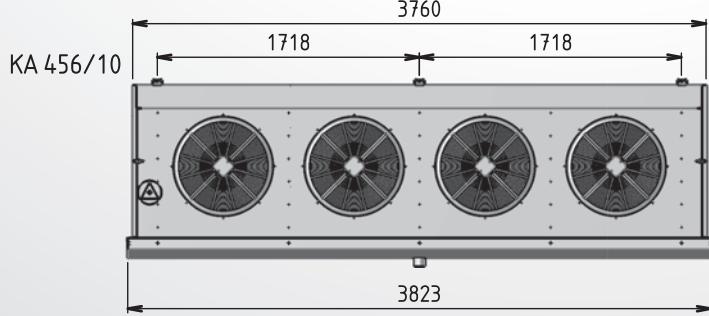
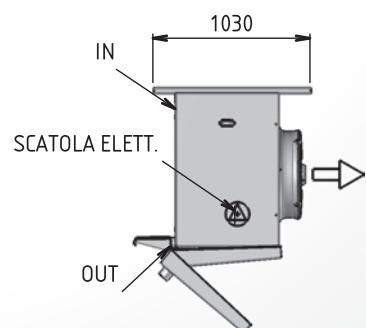
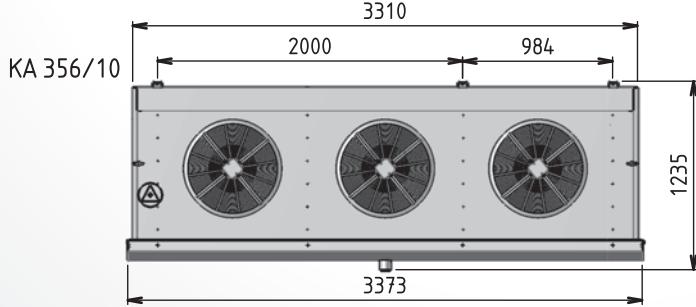
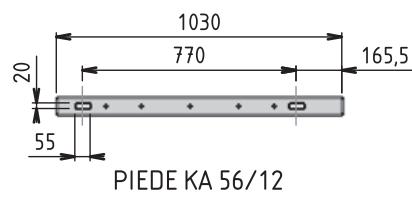
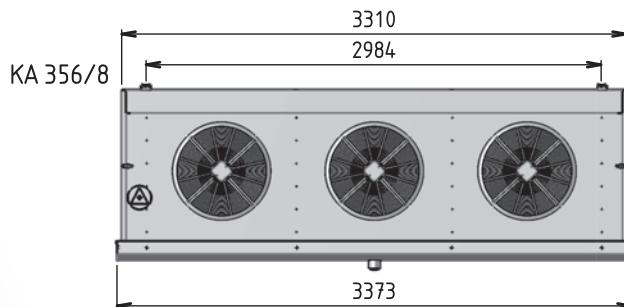
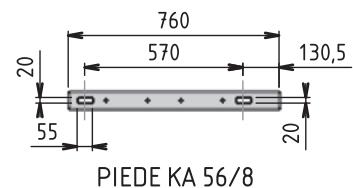
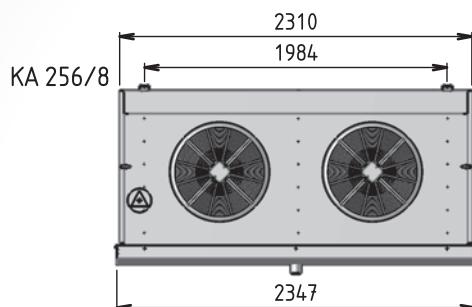
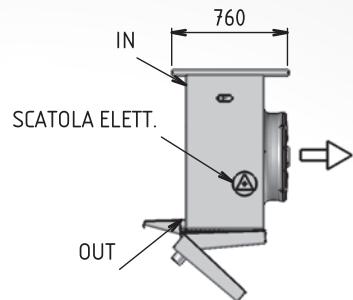
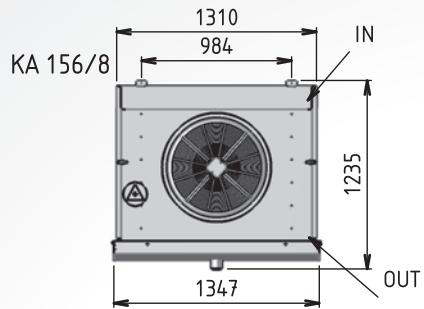
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno
WD Sbrinamento ad acqua

Real capacities whith following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8° C = DT8K

use externally equalized thermostatic expansion valve
WD Water defrost



Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
KAH	10°C +2°C	mm 4
KAM	2°C -18°C	mm 6
KAL	0°C -40°C	mm 10



new

MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS



IT	Motori	KW	Aria	Freccia	Superficie	Vol.Int.	Consumo	400V.	Sbrinam	Sbrin Acqua	Attacco WD	Attacchi	Scarico	Peso
UK	Motor	DT1=8K	Volume	Arrow	Surface	Volum.	Consum.	3ph 50hz	Defrost	Water Defrost	T.C.	In/Out	Drain	W.
MODEL	N° x D	R404A	m³/h	mt.	m²	dm³	W	A	ED W	WD I/h	WD gas	D.mm	D.mm	Kg

KAH 163-8	1x630	30	16000	50	130	23	2600/1600	4,8/2,7	6120	3150	1"1/4	28-54	70	170
KAH 163-10	1x630	36	15500	49	163	28	2600/1600	4,8/2,7	6120	3150	1"1/4	28-54	70	180
KAH 263-8	2x630	60	32000	50	260	45	5200/3200	9,6/5,4	8400	7000	1"1/4	28-54	70	300
KAH 263-10	2x630	71	31000	49	325	56	5200/3200	9,6/5,4	10500	7000	1"1/4	28-54	70	310
KAH 363-8	3x630	84	48000	50	393	67	7800/4800	14,4/8,1	18000	9500	1"1/4	35-54	70	350
KAH 363-10	3x630	102	46500	49	491	84	7800/4800	14,4/8,1	22500	10500	1"1/4	35-54	70	430
KAH 463-8	4x630	125	64000	50	550	94	10400/6400	19,2/10,8	22500	12600	2x1"1/4	35-64	70	480
KAH 463-10	4x630	147	62000	49	690	118	10400/6400	19,2/10,8	27000	12500	2x1"1/4	35-64	70	540

KAM 163-8	1x630	25	16250	53	90	23	2600/1600	4,8/2,7	6120	3150	1"1/4	25-54	70	150
KAM 163-10	1x630	31	15750	52	112	28	2600/1600	4,8/2,7	6120	3150	1"1/4	25-54	70	165
KAM 263-8	2x630	49	32500	53	180	45	5200/3200	9,6/5,4	8400	7000	1"1/4	28-54	70	270
KAM 263-10	2x630	61	31500	52	224	56	5200/3200	9,6/5,4	10500	7000	1"1/4	28-54	70	295
KAM 363-8	3x630	66	48750	53	270	67	7800/4800	14,4/8,1	18000	9500	1"1/4	35-54	70	340
KAM 363-10	3x630	86	47250	52	340	84	7800/4800	14,4/8,1	22500	10500	1"1/4	35-54	70	415
KAM 463-8	4x630	105	65000	53	380	94	10400/6400	19,2/10,8	22500	12600	2x1"1/4	35-64	70	460
KAM 463-10	4x630	125	63000	52	473	118	10400/6400	19,2/10,8	27000	12500	2x1"1/4	35-64	70	525

KAL 163-8	1x630	20	16500	54	57	23	2600/1600	4,8/2,7	6120	3150	1"1/4	28-54	70	145
KAL 163-10	1x630	26	16000	53	71	28	2600/1600	4,8/2,7	6120	3150	1"1/4	28-54	70	160
KAL 263-8	2x630	39	33000	54	114	45	5200/3200	9,6/5,4	8400	7000	1"1/4	28-54	70	265
KAL 263-10	2x630	53	32000	53	142	56	5200/3200	9,6/5,4	10500	7000	1"1/4	28-54	70	290
KAL 363-8	3x630	56	49500	54	188	67	7800/4800	14,4/8,1	18000	9500	1"1/4	35-54	70	330
KAL 363-10	3x630	71	48000	53	215	84	7800/4800	14,4/8,1	22500	10500	1"1/4	35-54	70	410
KAL 463-8	4x630	80	66000	54	241	94	10400/6400	19,2/10,8	22500	12600	2x1"1/4	35-64	70	450
KAL 463-10	4x630	101	64000	53	301	118	10400/6400	19,2/10,8	27000	12500	2x1"1/4	35-64	70	520

Livello potenza sonora -Sound power level

Motori/Motors	N°	1	2	3	4
	Db (A) Tot.	86	89	91	92



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO
HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST
HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

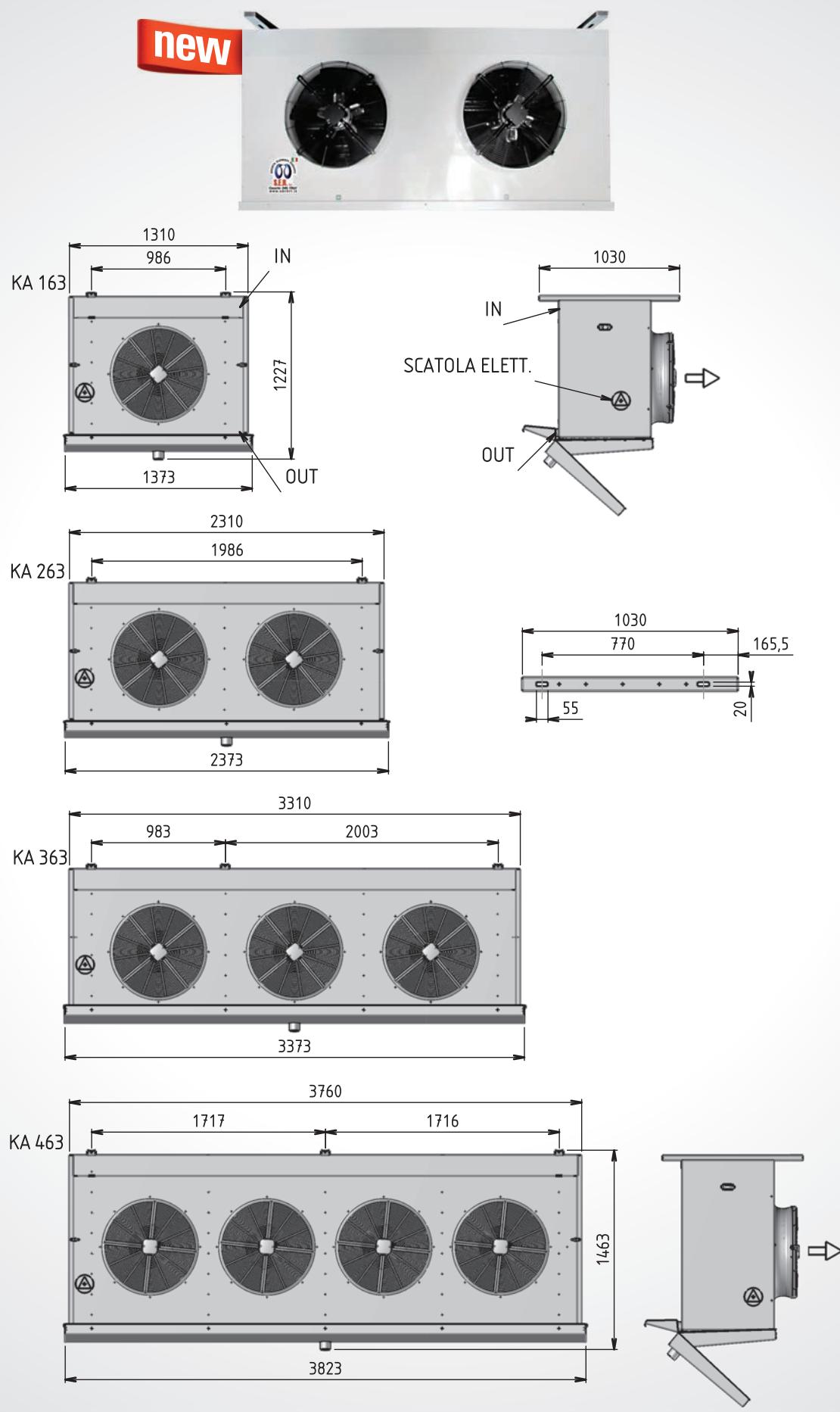
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno
WD Sbrinamento ad acqua

Real capacities whith following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8°C = DT8K

use externally equalized thermostatic expansion valve
WD Water defrost



KA 80

MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
KAH	10°C +2°C	mm 4
KAM	2°C -18°C	mm 6
KAL	0°C -40°C	mm 10



new



ITALY	Motori	KW	Aria	Freccia	Superficie	Vol. Int.	Consumo	400V.	Sbrinam	Sbrin Acqua	Attacco WD	Attacchi	Scarico	Peso
UK	Motor	DT1=8K	Volume	Arrow	Surface	Volu.	Consum.	3ph 50hz	Defrost	Water Defrost	T.C.	In/Out	Drain	W.
MODEL	N° x D	R404A	m³/h	mt.	m²	dm³	W	A	ED W	WD l/h	WD gas	D.mm	D.mm	Kg

KAH 180-8	1x800	41	19500	50	199	33	2000	4	13200	3600	1"1/4	22/42	70	200
KAH 180-10	1x800	48	19000	49	249	48	2000	4	15840	3600	1"1/4	22/42	70	210
KAH 280-8	2x800	82	39000	50	398	68	4000	8	18750	7200	1"1/4	35/64	70	350
KAH 280-10	2x800	96	38000	49	497	85	4000	8	22500	7200	1"1/4	35/64	70	370
KAH 380-8	3x800	117	58500	50	596	102	6000	12	22500	10800	2x1"1/4	35/80	70	480
KAH 380-10	3x800	143	57000	49	745	128	6000	12	27000	10800	2x1"1/4	35/80	70	510
KAH 480-8	4x800	167	78000	50	794	136	8000	16	30000	14400	2x1"1/4	35/80	70	640
KAH 480-10	4x800	194	76000	49	995	170	8000	16	36000	14400	2x1"1/4	35/80	70	700

KAM 180-8	1x800	35	20000	53	137	33	2000	4	13200	3600	1"1/4	22/42	70	190
KAM 180-10	1x800	42	19500	52	171	48	2000	4	15840	3600	1"1/4	22/42	70	200
KAM 280-8	2x800	70	40000	53	274	68	4000	8	18750	7200	1"1/4	35/64	70	330
KAM 280-10	2x800	84	39000	52	342	85	4000	8	22500	7200	1"1/4	35/64	70	350
KAM 380-8	3x800	106	60000	53	410	102	6000	12	22500	10800	2x1"1/4	35/80	70	455
KAM 380-10	3x800	123	58500	52	513	128	6000	12	27000	10800	2x1"1/4	35/80	70	495
KAM 480-8	4x800	140	80000	53	547	136	8000	16	30000	14400	2x1"1/4	35/80	70	630
KAM 480-10	4x800	169	78000	52	683	170	8000	16	36000	14400	2x1"1/4	35/80	70	680

KAL 180-8	1x800	28	20300	54	87	33	2000	4	13200	3600	1"1/4	22/42	70	185
KAL 180-10	1x800	34	20000	53	109	48	2000	4	15840	3600	1"1/4	22/42	70	195
KAL 280-8	2x800	55	40600	54	174	68	4000	8	18750	7200	1"1/4	35/64	70	325
KAL 280-10	2x800	68	40000	53	218	85	4000	8	22500	7200	1"1/4	35/64	70	345
KAL 380-8	3x800	86	60900	54	261	102	6000	12	22500	10800	2x1"1/4	35/80	70	450
KAL 380-10	3x800	102	60000	53	327	128	6000	12	27000	10800	2x1"1/4	35/80	70	490
KAL 480-8	4x800	109	81200	54	348	136	8000	16	30000	14400	2x1"1/4	35/80	70	625
KAL 480-10	4x800	136	80000	53	435	170	8000	16	36000	14400	2x1"1/4	35/80	70	675

Livello potenza sonora -Sound power level				
Motori/Motors				
N°	1	2	3	4
Db (A) Tot.	82	85	87	88



ED = SBRINAMENTO ELETTRICO

SS = SENZA SBRINAMENTO

HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST

SS = WITHOUT DEFROST

HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

Umidità in cella 85%

Refrigerante R404A

Temperatura ingresso aria 0°C

Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

Real capacities with following use conditions:

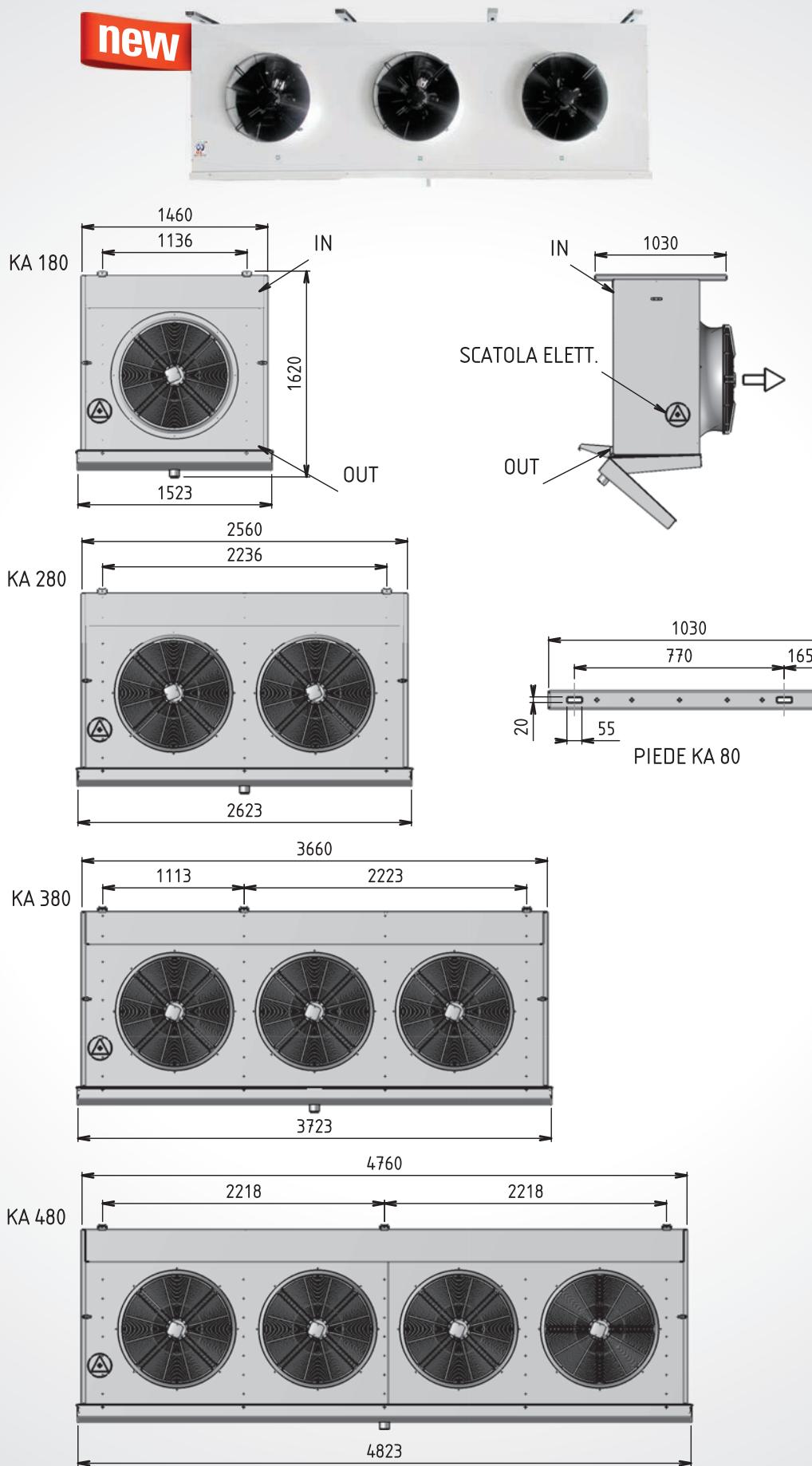
Humidit in the cold room 85%

Refrigerant fluid R404A

Air entering temp. 0°C

Evaporating temp. -8°C = DT8K

use externally equalized thermostatic expansion valve



MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS



Il MODELLO KD è un evaporatore industriale a doppio flusso d'aria per grandi celle frigorifere e magazzini refrigerati ad altezza ridotta per la conservazione di prodotto fresco e congelato. **Mod. KDH** è adatto per conservazione di prodotto fresco , passo alette 3,5 mm. **Mod. KDM** è adatto per conservazione prodotto fresco e congelato, passo alette 5,5 mm. **Mod. KDL** è adatto per congelamento e conservazione di prodotto surgelato, passo alette 8,00 mm. **Mod. KDZ** è adatto per congelamento e conservazione di prodotto surgelato, passo alette 11 mm. **Mod. KD 45** con motore a doppia velocità ø 450mm. 400v/3/50hz. **Mod. KD 50** con motore a doppia velocità ø. 500mm. 400V/3/50hz **KD - SS** = versione senza sbrinamento (consigliato fino a 2°C) **KD - ED** = versione con sbrinamento elettrico (consigliato fino a -40°C), predisposti per il collegamento 400v/3/50-60hz. **KD - HG** = versione sbrinamento gas caldo più una resistenza elettrica nello sgocciolatoio.



Le MOD. KD est un évaporateur à double flux pour grandes chambres à froid et entrepôts de réfrigération avec hauteur réduite pour la conservation du produit frais et surgelé. **Mod. KDH** pour la conservation du produit frais , écartement ailettes 3,5 mm. **Mod. KDM** pour la conservation produit frais et surgelé, écartement ailettes 5,5 mm. **Mod. KDL** pour la congélation et la conservation du produit surgelé, écartement ailettes 8,00 mm. **Mod. KDZ** pour la congélation et conservation du produit surgelé, écartement ailettes 11 mm. **Mod. KD 45** avec moteur double vitesse ø 450mm. 400v/3/50hz. **Mod. KD 50** avec moteur double vitesse ø. 500mm. 400V/3/50hz **KD - SS** = sans dégivrage (jusqu'à 2°C) **KD - ED** = avec dégivrage électrique (jusqu'à -40°C), arrangés pour la connexion 400v/3/50-60hz. **KD - HG** = Avec dégivrage gaz chaud avec 1 résistance en plus dans l'égouttoir.



The MODEL KD is an industrial dual discharge cooler for big cold rooms and refrigerating stores with reduced height **MOD. KDH** for fresh product storage., fin spacing mm. 3.5. **MOD. KDM** for fresh and frozen product storage, fin spacing mm. 5.50 **MOD. KDL** for freezing and frozen product storage, fin spacing mm. 8.00. **MOD. KDZ** for freezing and frozen product storage, fin spacing mm. 11.**MOD. KD 45** with motor ø 450mm, 3 phases, 400v/3/50 hz double speed. **MOD. KD 50** with motor ø 500mm.,400v /3/50 hz double speed, **KD - SS** = without defrost (recommended till 2 °C) **KD - ED** = with electrical defrost(recommended till -40°C), arranged for the connection 400v/3/50-60hz. **KD HG** = hot gas defrost with one heater more in the drip tray.



МОДЕЛЬ KD - промышленный испаритель с двойной циркуляцией воздуха для больших холодильных камер складов-холодильников низкой высоты, где хранятся свежие и замороженные продукты. **МОД. KDH** предназначена для хранения свежих продуктов, шаг лопастей 3,5 мм. **МОД. KDM** рекомендуется для хранения свежих и замороженных продуктов, шаг лопастей 5,5 мм **МОД. KDL** рекомендуется для замораживания и хранения быстрозамороженных продуктов, шаг лопастей 8,00 мм. **МОД. KDZ** рекомендуется для замораживания и хранения быстрозамороженных продуктов, шаг лопастей 11 мм. **МОД. KD 45** с двухскоростным мотором ø 450 мм, 400v/3/50 Гц.**МОД. KD 50** с двухскоростным мотором ø 500 мм, 400v/3/50 Гц.**KD - SS** = вариант без размораживания (рекомендуется до 2°C). **KD - ED** = вариант с электрическим размораживанием (рекомендуется до -40°C), для сети 400v/3/50-60Гц. **KD HG** = размораживание горячим газом с одним нагревателем больше в поддон.



ED = SBRINAMENTO ELETTRICO

SS = SENZA SBRINAMENTO

HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST

SS = WITHOUT DEFROST

HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

Umidità in cella 85%

Refrigerante R404A

Temperatura ingresso aria 0°C

Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

Real capacities whith following use conditions:

Humidit in the cold room 85%

Refrigerant fluid R404A

Air entering temp. 0°C

Evaporating temp. -8° C = DT8K

use externally equalized thermostatic expansion valve

MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
KDH	10°C +2°C	mm 3,5
KDM	2°C -18°C	mm 5,5
KDL	0°C -30°C	mm 8
KDZ	0°C -40°C	mm 11



ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	400V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	3ph 50hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

x2

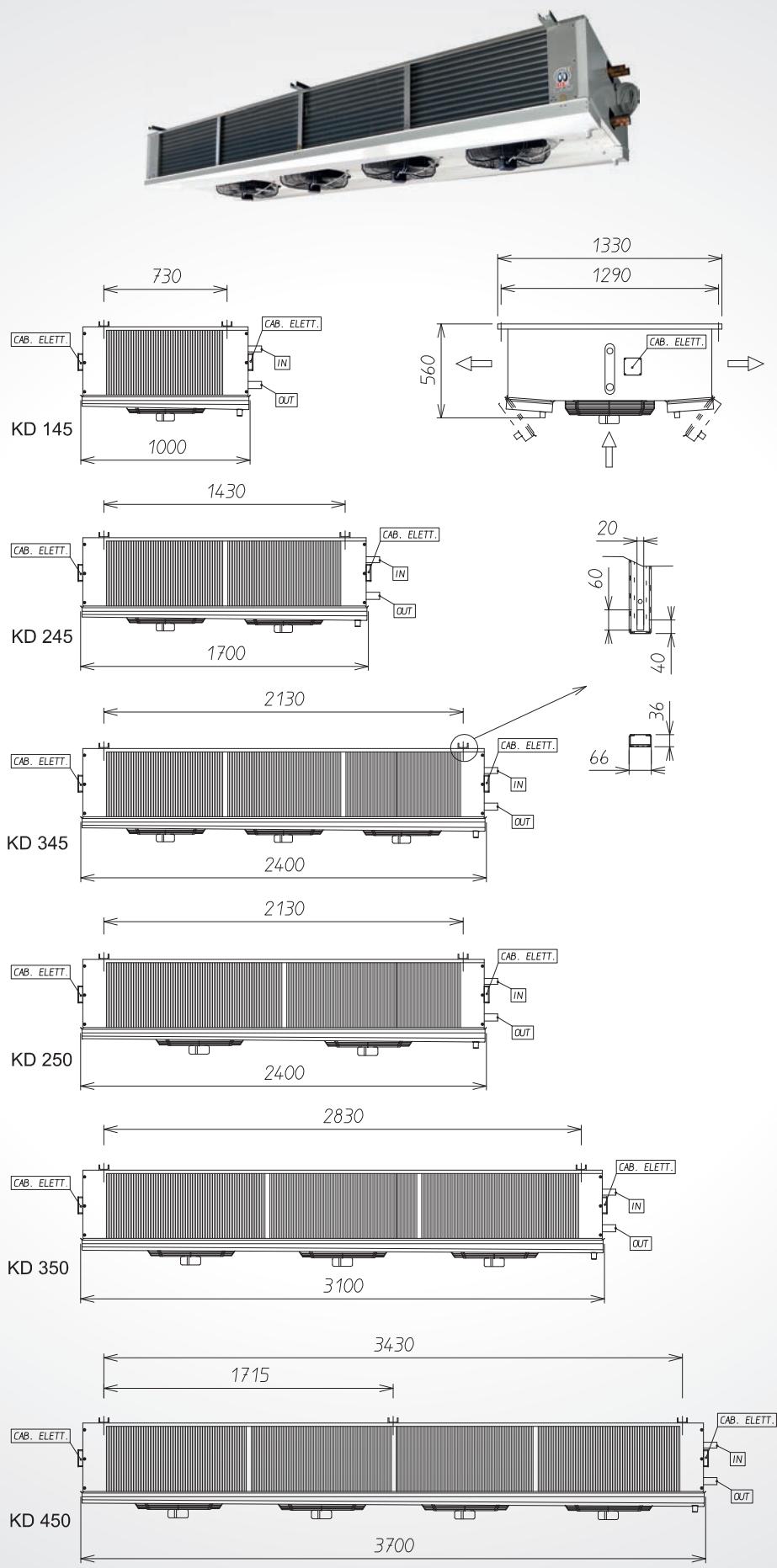
KDH 145	1x450	6.6	4200	9	46	7	200/285	0,48/0,53	3600	16-35	2x30	80
KDH 245	2x450	14.01	8400	10	91	14	400/570	0,96/1,06	7200	16-35	2x30	145
KDH 345	3x450	22	12600	11	136	21	600/855	1,44/1,59	10800	22-42	2x30	208
KDH 250	2x500	32	15200	12	205	31	1100/1560	1,88/2,70	10800	28-54	2x30	240
KDH 350	3x500	44.3	22800	13	272	41	1650/2340	2,82/4,05	13500	28-54	2x30	310
KDH 450	4x500	60	30400	14	340	52	2200/3120	3,76/5,4	18000	28-54	2x30	430

KDM 145	1x450	6.2	4400	10	30	7	200/285	0,48/0,53	3600	16-35	2x30	74
KDM 245	2x450	11.8	8800	11	60	14	400/570	0,96/1,06	7200	16-35	2x30	140
KDM 345	3x450	16.2	13300	12	90	21	600/855	1,44/1,59	10800	22-42	2x30	200
KDM 250	2x500	26	15600	13	134	31	1100/1560	1,88/2,70	10800	28-54	2x30	230
KDM 350	3x500	37	23400	14	179	41	1650/2340	2,82/4,05	13500	28-54	2x30	298
KDM 450	4x500	47.5	31200	15	223	52	2200/3120	3,76/5,4	18000	28-54	2x30	410

KDL 145	1x450	3.6	4600	11	22	7	200/285	0,48/0,53	3600	16-35	2x30	70
KDL 245	2x450	9	9200	12	43	14	400/570	0,96/1,06	7200	16-35	2x30	135
KDL 345	3x450	14	13800	13	64	21	600/855	1,44/1,59	10800	22-42	2x30	192
KDL 250	2x500	21.5	15800	14	96	31	1100/1560	1,88/2,70	10800	28-54	2x30	220
KDL 350	3x500	31	23700	15	128	41	1650/2340	2,82/4,05	13500	28-54	2x30	286
KDL 450	4x500	39	31600	16	160	52	2200/3120	3,76/5,4	18000	28-54	2x30	390

KDZ 145	1x450	3.2	4600	11	18	7	200/285	0,48/0,53	3600	16-35	2x30	70
KDZ 245	2x450	8	9200	12	34	14	400/570	0,96/1,06	7200	16-35	2x30	135
KDZ 345	3x450	12	13800	13	50	21	600/855	1,44/1,59	10800	22-42	2x30	192
KDZ 250	2x500	19	15800	14	75	31	1100/1560	1,88/2,70	10800	28-54	2x30	220
KDZ 350	3x500	27	23700	15	100	41	1650/2340	2,82/4,05	13500	28-54	2x30	286
KDZ 450	4x500	34	31600	16	125	52	2200/3120	3,76/5,4	18000	28-54	2x30	390

	Livello potenza sonora -Sound power level				
Motori/Motors	N°	1	2	3	4
d.450	Db (A) Tot.	78	81	83	
d.500		82	84	85	



Aeroevaporatori a pavimento ad alta capacita

Evaporateur Blast freezer

Blast freezer unit coolers

Воздушные испарители напольные высокопроизводительные



MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS



Il **MOD. EP** è un aeroevaporatore industriale (Blast freezer) a pavimento, per celle frigorifere e tunnel di surgelamento, dove è richiesto un veloce abbattimento delle temperature. Il **MOD. EPM** è adatto per la conservazione del prodotto fresco o congelato, passo alette 6 mm. Il **MOD. EPZ** è adatto per il surgelamento e conservazione del prodotto surgelato, passo alette 11mm. I motori del **MOD. EP-56** sono Ø 560 mm. trifase 400V/3/50hz a doppia velocità e **MOD. EP-63** sono Ø 630 mm. trifase 400V/3/50hz a doppia velocità. **EP - SS** = versione senza sbrinamento (consigliato fino a 2°C). **EP - ED** = versione con sbrinamento elettrico (consigliato fino a -40°C) predisposti per il collegamento 400V/ 3/50hz. **EP-HG** = versione sbrinamento gas caldo più una resistenza elettrica nello sgocciolatoio.



Le **MOD. EP** est un évaporateur industriel (blast freezer) au sol, pour chambre à froid et tunnel de congélation, pour une très vite descente de la température. Le **MOD. EPM** est pour la conservation du produit frais, écart. ailettes mm. 6,00. Le **MOD. EPZ** est pour la congélation et la conservation du produit frais et congelé, écart. Ailettes 11mm. Les moteurs du **MOD. EP-56** sont Ø 560 mm. 3phases 400V/3/50hz double vitesse, les moteurs du **MOD. EP-63** sont Ø 630 mm. 3phases 400V/3/50hz double vitesse. **EP - SS** = Sans dégivrage (jusqu'au 2°C); **EP-ED** = Avec dégivrage électrique (jusqu'à -40°C) predisposition pour la connexion 400V/ 3/50-60hz. **EP-HG** = Avec dégivrage gaz chaud avec une resistance en plus dans l'égouttoir.



The model **EP** is an industrial floor cooler (BLAST FREEZER), for cold room and deep-freezing tunnels, where a quick drop of the temperature is requested. **EPM** **MODEL** for fresh or frozen product storage, fin spacing 6 mm. **EPZ MODEL** for freezing and frozen product storage, fin spacing 11 mm. The fans of **EP-56** model are Ø 560 mm, 3-phases 400V/3/50hz double speed and The fans of **EP-63** model are Ø 630 mm, 3-phases 400V/3/50hz double speed **EP SS** = without defrost (recommended till 2° C) **EP ED** = with electrical defrost (recommended till -40° C), arranged for the connection 400V/3/50-60hz. **EP-HG** = hot gas defrost with one heater more in drip tray.



EP - это промышленный воздушный испаритель (Blast freezer) напольный для холодильных камер и туннелей быстрой заморозки, в которых требуется быстро понижать температуру. **МОД. ЕРМ** рекомендуется для хранения свежих и замороженных продуктов, шаг лопастей 6 мм **МОД. ЕРZ** рекомендуется для замораживания и хранения быстрозамороженных продуктов, шаг лопастей 11 мм. Двигатели **МОД. ЕР-56** имеют Ø 560 мм. Трехфазные 400в/3/50 Гц двухскоростные с внешним ротором, **МОД. ЕР-63** имеют Ø 630 мм. Трехфазные 400в/3/50 Гц двухскоростные с внешним ротором. **EP - SS** = вариант без размораживания (рекомендуется до 2°c). **EP - ED** = вариант с электрическим размораживанием (рекомендуется до -40°c), для сети 400в/3/50-60Гц. **EP-HG** = размораживание горячим газом с одним нагревателем больше в поддон.



MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
M	2°C -18°C	mm 6
Z	0°C -40°C	mm 11

ITALY	Moto.	DT1=8K	Aria	Freccia	Super.	Vol.Int.	Consumo	400V	Sbrinam.	Attacchi	Attacchi	Scarico	Db (A)	Peso
UK	Moto.	KW	Air	Arrow	Surf.	Int.Vol.	Consum.	3ph 50hz	Defrost	IN	OUT	C. Drain	5 mt	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	mm	D.mm		Kg

EP-56

EPM 256	2x560	28	16000	23	110	27	2000/1200	3,6/1,9	9000	2x22	35	50	86	160
EPM 456	4x560	56	32000	23	220	54	4000/2400	7,2/3,8	16200	2x28	42	50	89	280
EPM 656	6x560	84	48000	23	330	81	6000/3600	10,8/5,7	27000	2x35	54	50	91	390
EPM 856	8x560	112	64000	23	440	108	8000/4800	14,4/7,6	33900	2x35	54	50	92	490

EPZ 256

EPZ 256	2x560	21	16000	23	70	27	2000/1200	3,6/1,9	9000	2x22	35	50	86	145
EPZ 456	4x560	42	32000	23	140	54	4000/2400	7,2/3,8	16200	2x28	42	50	89	250
EPZ 656	6x560	63	48000	23	210	81	6000/3600	10,8/5,7	27000	2x35	54	50	91	350
EPZ 856	8x560	84	64000	23	280	108	8000/4800	14,4/7,6	33900	2x35	54	50	92	450

EP-63

EPM 263	2x630	44	30000	27	145	37	3940/2580	6,8/4,2	9000	2x22	35	50	88	180
EPM 463	4x630	88	60000	27	290	74	7880/5160	13,6/8,4	16200	2x28	42	50	91	310
EPM 663	6x630	132	90000	27	435	111	11820/7740	20,4/12,6	27000	2x35	54	50	93	430
EPM 863	8x630	176	120000	27	580	148	15760/10320	27,2/16,8	33900	2x35	54	50	94	540

EPZ 263	2x630	36	30000	27	92	37	3940/2580	6,8/4,2	9000	2x22	35	50	88	165
EPZ 463	4x630	72	60000	27	184	74	7880/5160	13,6/8,4	16200	2x28	42	50	91	280
EPZ 663	6x630	108	90000	27	276	111	11820/7740	20,4/12,6	27000	2x35	54	50	93	390
EPZ 863	8x630	144	120000	27	368	148	15760/10320	27,2/16,8	33900	2x35	54	50	94	500



ED = SBRINAMENTO ELETTRICO

SS = SENZA SBRINAMENTO

HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST

SS = WITHOUT DEFROST

HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

Umidità in cella 85%

Refrigerante R404A

Temperatura ingresso aria 0°C

Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

Real capacities with following use conditions:

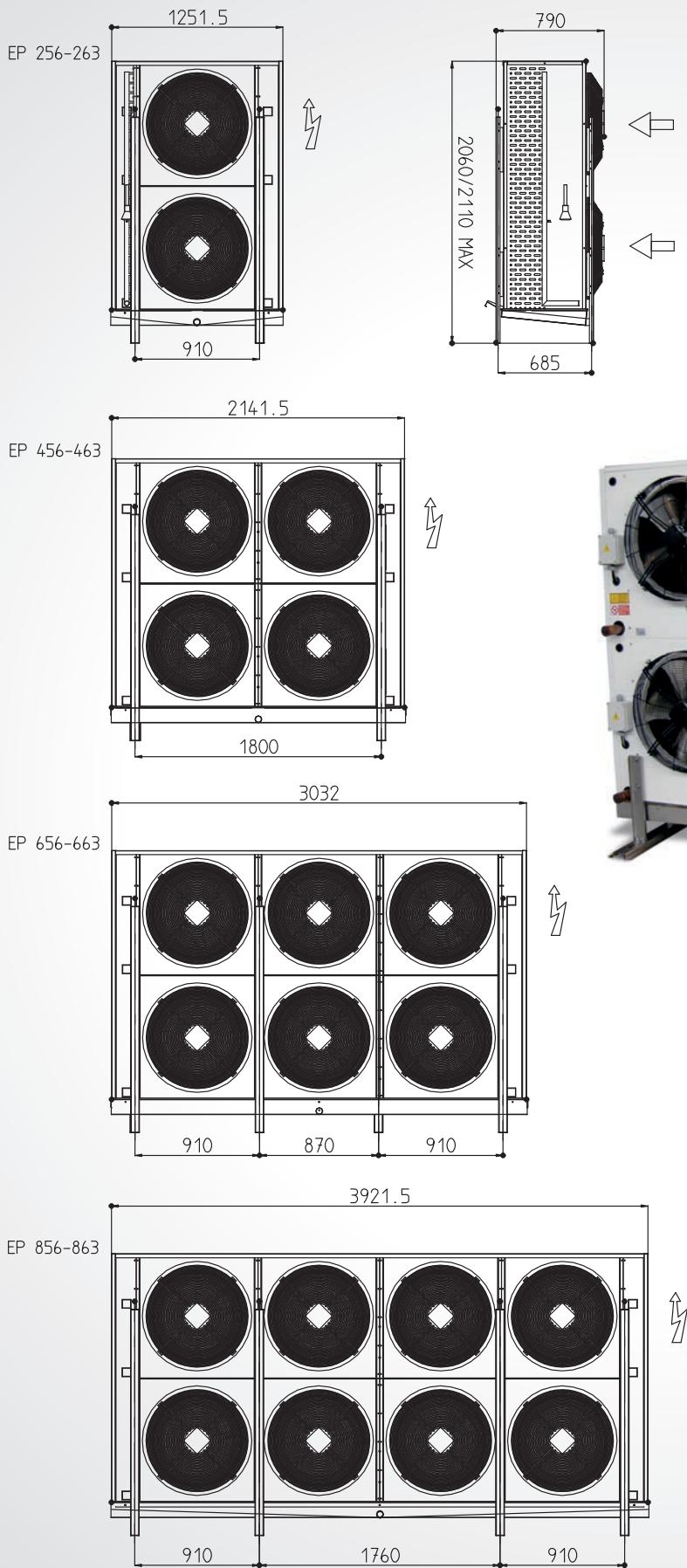
Humidit in the cold room 85%

Refrigerant fluid R404A

Air entering temp. 0°C

Evaporating temp. -8°C = DT8K

use externally equalized thermostatic expansion valve



Aeroevaporatori cubici per mezzi navali a norme U.S.P.H.S.

Evaporateur cubique pour employ navale U.S.P.H.S.

Evaporator cubic ceiling cooler for vessels and boats U.S.P.H.S.

Кубические воздухоохладители для морских судов согласно норме U.S.P.H.S.



Il Mod. HBU è un aeroevaporatore cubico a soffitto per celle frigorifere, studiato per l'utilizzo su mezzi navali. Questo evaporatore supera le severe normative U.S.P.H.S. Il Mod. HBU è adatto sia per la conservazione del prodotto fresco, sia per il congelamento o per la conservazione del prodotto surgelato. HBUH = il passo delle alette è di 4 mm. HBUL = il passo delle alette è di 7 mm. I motori del Mod. HBU 1-2-3 sono Ø 315 mm 1ph 230v 50-60hz. le griglie di protezione sono in acciaio inox secondo norme U.S.P.H.S. I motori del Mod. HBU 4-5-6 sono Ø 400 mm 1ph 230v 50-60hz. Le griglie di protezione sono in acciaio inox secondo norme U.S.P.H.S. HBU - SS = versione senza sbrinamento elettrico (consigliato fino a 2 °c). HBU - ED = versione con sbrinamento elettrico (consigliato fino a -30°C), predisposti per il collegamento 400v 3/50-60hz. in scatole di derivazione. La carrozzeria è realizzata totalmente in acciaio inox, ed è ispezionabile per eventuali controlli, secondo la normativa U.S.P.H.S.



Le Mod. HBU est un évaporateur cubique pour installation à plafond pour chambre à froid , étudié particulièrement pour les navires. . Ce model satisfait les sévères normes U.S.P.H.S. Cet évaporateur est: soit pour la conservation des produits frais que pour la congélation ou la conservation des produits congelés. HBUH = écartement ailettes 4 mm. HBUL = écartement ailettes 7 mm. Les moteurs du Mod. HBU 1-2-3 sont Ø 315 mm 1ph 230v 50-60hz. Les grilles de protection sont en acier inox suivant normes U.S.P.H.S. Les moteurs du Mod. HBU 4-5-6 sont Ø 400 mm 1ph 230v 50-60hz. Les grilles de protection sont en acier inox suivant normes U.S.P.H.S. Les moteurs du Mod. HBU 7-8 sont Ø 500 mm 1ph 230v 50-60hz. Les grilles de protection sont en acier inox suivant normes U.S.P.H.S. HBU - SS = version sans dégivrage (recommandé jusqu'au 2 °c). HBU - ED = version avec dégivrage électrique (recommandé jusqu'à -30°C), predisposition pour la connexion 400v 3/50-60hz. La carrosserie est complètement réalisée en acier inox, et est possible l'inspecter pour les controles aux normes U.S.P.H.S.



The HBU MODELS is a cubic ceiling cooler studied for cold rooms on vessels and boats. The HBU MODEL satisfy completely the strict rules U.S.P.H.S. The MOD. HBU is used for fresh products storage, for freezing or frozen storage products. HBUH = fin spacing is 4 mm. HBUL = fin spacing is 7 mm. The MOD. HBU 1-2-3 are with fan motors Ø 315 mm 1ph 230v 50-60hz. Fan guards are totally in Inox following U.S.P.H.S. rules. The MOD. HBU 4-5-6 are with fan motors Ø 400mm 1ph 230v 50-60hz. Fan guards are totally in Inox following U.S.P.H.S. rules. The MOD. HBU 7-8 are with fan motors Ø 500mm 1ph 230v 50-60hz. Fan guards are totally in Inox following U.S.P.H.S. rules. HBU - SS = without defrost (recommended till 2 °C) HBU - ED = with electrical defrost (Recommended till -30°C) with Inox heaters with vulcanized terminal, arranged for the connection 400V 3/50- 60HZ. The body is completely in Inox and it is manufactured for the inspections of further controls, following U.S.P.H.S. rules.



HBU - это кубический воздушный испаритель потолочный для холодильных камер, предназначенный для использования на водном транспорте. Его характеристики превышают требования правила U.S.P.H.S. Мод. HBU рекомендуется как для хранения свежих продуктов, так и для замораживания или хранения быстрозамороженных продуктов. HBUH = Шаг лопастей 4 мм. HBUL = Шаг лопастей 7 мм. Двигатели Мод. HBU 1-2-3 имеют Ø 315 мм, 1/230в 50/60Гц. Защитные решетки выполнены из нержавеющей стали согласно стандартам U.S.P.H.S. Двигатели Мод. HBU 4-5-6 имеют Ø 400 мм, 1/230в 50/60Гц. Защитные решетки выполнены из нержавеющей стали согласно стандартам U.S.P.H.S. Мод. HBU 7-8 имеют Ø 500 мм, 1/230в 50/60Гц. Защитные решетки выполнены из нержавеющей стали согласно стандартам U.S.P.H.S. HBU - SS = вариант без электрического размораживания (рекомендуется до 2°c). HBU - ED = вариант с электрическим размораживанием (рекомендуется до -30°c), с электрическими сопротивлениями, бронированными нержавеющей сталью и вулканизированными оконечностями, для сети 400в /3/50-60Гц. В распределительных коробках. Корпуса целиком изготовлены из нержавеющей стали и приспособлены для удобства проверки согласно правилу U.S.P.H.S.

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 4
L	0°C -30°C	mm 7



IT	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	240V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

HBUH 1	1x315	2.5	1600	8	12	2.25	102/120	0,52/0,53	1800	12-22	33	44
HBUH 2	1x315	3	1600	8	17	3	102/120	0,52/0,53	1800	12-22	33	46
HBUH 3	1x315	4	1600	8	24	4.5	102/120	0,52/0,53	1800	12-22	33	48
HBUH 4	1x400	6	3450	14	29	5	160	0.73/1,06	4080	12-28	33	58
HBUH 5	1x400	7	3450	14	35	6.5	160	0.73/1,06	4080	12-28	33	61
HBUH 6	1x400	8	3450	14	42	8	160	0.73/1,06	4080	12-28	33	64
HBUH 7	1x500	13.5	7500	25	70	12	880	3.88	6160	12-28	33	109
HBUH 8	1x500	17	7500	25	93	16	880	3.88	6160	12-28	33	109

HBUL 1	1x315	1.8	1650	9	8	2.25	102/120	0,52/0,53	1800	12-22	33	41
HBUL 2	1x315	2.3	1650	9	11	3	102/120	0,52/0,53	1800	12-22	33	43
HBUL 3	1x315	3.6	1650	9	16	4.5	102/120	0,52/0,53	1800	12-22	33	45
HBUL 4	1x400	4.2	3500	15	19	5	160	0.73/1,06	4080	12-28	33	53
HBUL 5	1x400	5.2	3500	15	23	6.5	160	0.73/1,06	4080	12-28	33	56
HBUL 6	1x400	6.2	3500	15	28	8	160	0.73/1,06	4080	12-28	33	59
HBUL 7	1x500	11	7600	28	42	12	880	3.88	6160	12-28	33	112
HBUL 8	1x500	14	7600	28	56	16	880	3.88	6160	12-28	33	112



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

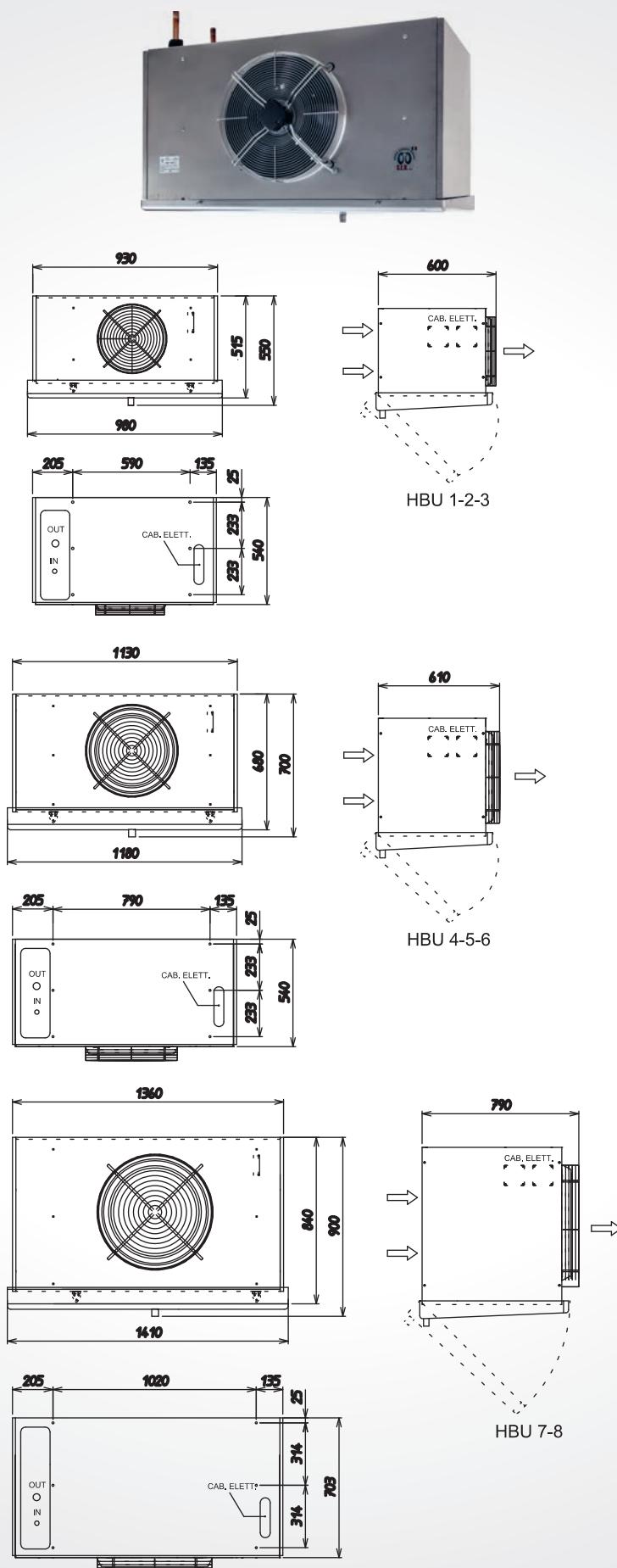
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

Real capacities with following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8° C = DT8K

use externally equalized thermostatic expansion valve



Aeroevaporatori a parete per mezzi navali a norme U.S.P.H.S.

Evaporateur de mur pour emplois navale U.S.P.H.S.

Evaporator wall cooler for vessels and boats U.S.P.H.S.

Настенные воздухоохладители для морских судов согласно норме U.S.P.H.S.



Il **Mod. WBU** è un aeroevaporatore a parete per celle frigorifere, studiato per l'utilizzo sui mezzi navali. Questo modello di evaporatore supera le severe Normative **U.S.P.H.S.** Questo Evaporatore è adatto sia per la conservazione del prodotto fresco, sia per il congelamento o per la conservazione del prodotto surgelato. **WBUH** = il passo delle alette è 4 mm **WBUL** = il passo delle alette è 7 mm. I motori del **Mod. WBU** sono Ø 172 mm 230V- 1/50/60hz. Le griglie di protezione sono in acciaio inox secondo norme **U.S.P.H.S.**. **WBU - SS** = versione senza sbrinamento elettrico (consigliato fino a 2°C). **WBU - ED** = versione con sbrinamento elettrico (consigliato fino a -30°C) predisposti per il collegamento 230v 1/50-60hz. La carrozzeria è realizzata completamente in acciaio inox, ed è ispezionabile per eventuali controlli, secondo la normativa **U.S.P.H.S.**



le **Mod. WBU** est un évaporateur au mur pour chambre à froid, étudié pour l'emploi sur navires. Ce model satisfait les sévères normes **U.S.P.H.S.** Cet évaporateur est: soit pour la conservation des produits frais que pour la congélation ou la conservation des produits congelés. **WBUH** = écartement ailettes 4 mm **WBUL** = écartement ailettes 7 mm. Les moteurs du **Mod. WBU** sont Ø 172 mm 230V- 1/50/60hz. Les grilles de protection sont en acier inox suivant normes **U.S.P.H.S.**. **WBU - SS** = version sans dégivrage (recommandé jusqu'au 2°C). **WBU - ED** = version avec dégivrage électrique (recommandé jusqu'à -30°C), predisposition pour la connexion 230v 1/50-60hz. La carrosserie est complètement réalisée en acier inox, et est possible l'inspecter pour les controles aux normes **U.S.P.H.S.**



The **WBU MODELS** is a wall cooler studied for cold rooms on vessels and boats. The **WBU MODEL** satisfy completely the strict rules **U.S.P.H.S.** The **MOD. WBU** is used for fresh products storage, for freezing or frozen storage products. **WBUH** = fin spacing is 4 mm **WBUL** = fin spacing is 7 mm . Fan motors are Ø 172 mm 230V, 1/50/60hz. **WBU - SS** = without defrost (recommended till 2 °C) **WBU - ED** = with electrical defrost (Recommended till -30°) Arranged for the connection 230V 1/50-60hz. Fan guards are totally in Inox following **U.S.P.H.S.** rules. The body is completely in Inox and it is manufactured following **U.S.P.H.S.** rules, for the inspections of further controls.



WBU - это настенный воздушный испаритель для холодильных камер, предназначенный для использования на водном транспорте. Его характеристики превышают требования норм **U.S.P.H.S.** Данный испаритель рекомендуется как для хранения свежих продуктов, так и для замораживания или хранения быстрозамороженных продуктов. **WBUH** = Шаг лопастей 4 мм. **WBUL** = Шаг лопастей 7 мм. Двигатели **МОДЕЛИ WBU** имеют Ø 172 мм 230в-1/50/60гц. Защитные решетки выполнены из нержавеющей стали согласно стандартам **U.S.P.H.S.** **WBU - SS** = вариант без электрического размораживания (рекомендуется до 2°C). **WBU - ED** = вариант с электрическим размораживанием (рекомендуется до -30°C), для сети 400в 3/50-60Гц. В распределительных коробках. Корпуса целиком изготовлены из нержавеющей стали и приспособлены для удобства проверки согласно правилу **U.S.P.H.S. U.S.P.H.S.**

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
H	10°C +2°C	mm 4
L	0°C -30°C	mm 7



ITALY	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	240V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	1ph 50/60hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m³/h	Mt.	m²	dm³	W	A	ED W	mm	D.mm	Kg

WBUH 12	2x172	2.6	1800	4	8.2	1.5	60/130	0.66	600	12-18	33	27
WBUH 13	3x172	4	2600	4	12	2.2	90/195	0.99	900	12-18	33	39
WBUH 14	4x172	5.6	3450	4	15.8	2.9	120/260	1.32	1200	12-18	33	51

WBUL 12	2x172	1.8	1900	5	5.5	1.5	60/130	0.66	600	12-18	33	24
WBUL 13	3x172	2.9	2800	5	8	2.2	90/195	0.99	900	12-18	33	36
WBUL 14	4x172	4	3750	5	10.5	2.9	120/260	1.32	1200	12-18	33	48



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

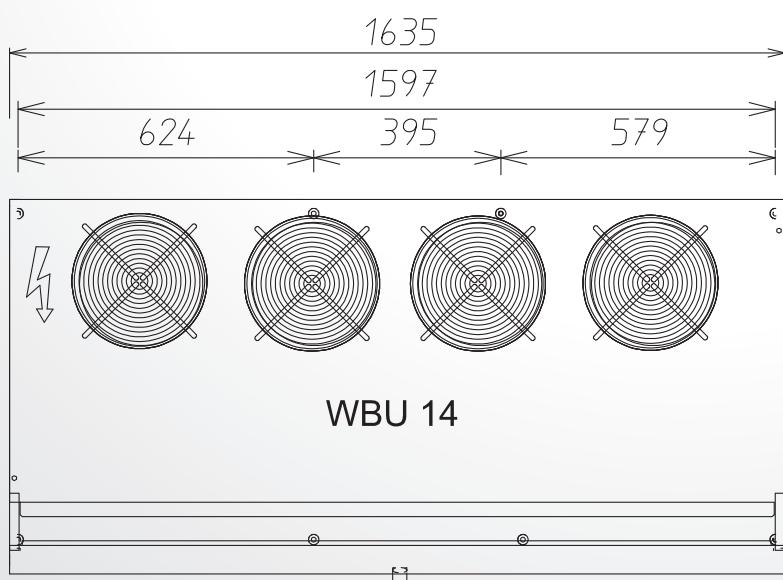
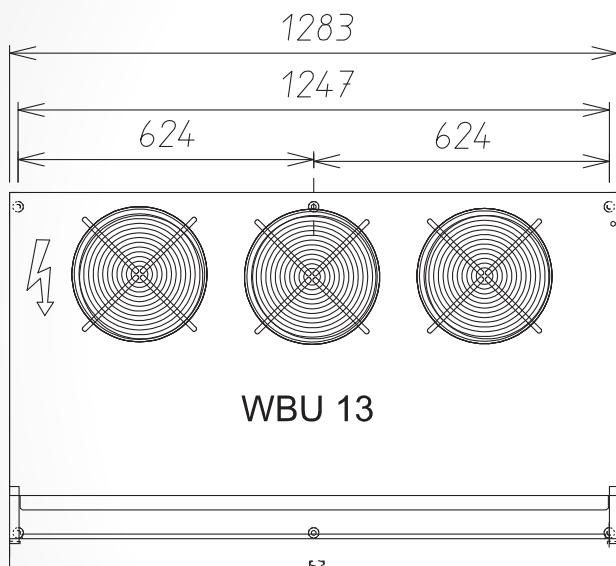
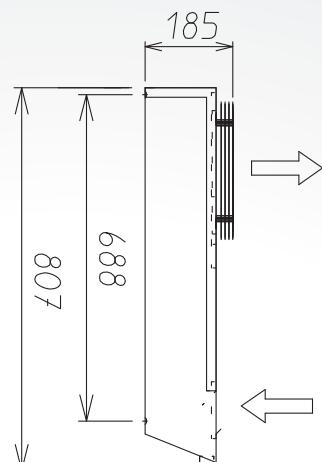
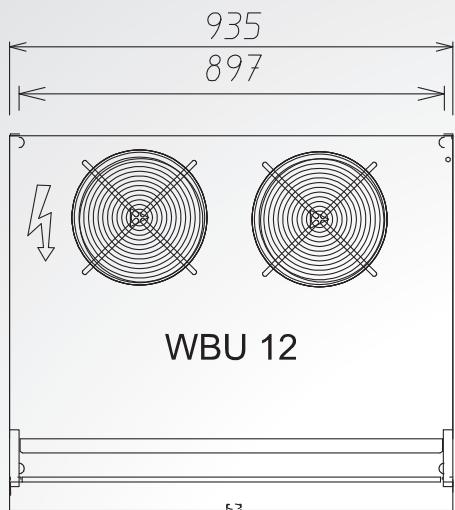
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

Real capacities whith following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8° C = DT8K

use externally equalized thermostatic expansion valve





MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS



Il **Mod. W** è un aeroevaporatore (BLAST FREEZER) industriale da muro a pavimento, per celle frigorifere e tunnel di surgelamento, dove è richiesto un veloce abbattimento delle temperature. Il **Mod. WM** è adatto per la conservazione del prodotto fresco o congelato, passo alette 6 mm. Il **MOD. WZ** è adatto per il surgelamento e conservazione del prodotto surgelato, passo alette 11 mm. I motori del **Mod. W** sono ø 500 mm 400V/3/50 Hz a doppia velocità . **W - SS** = versione senza sbrinamento (consigliato fino a 2°C). **W - ED** = versione con sbrinamento elettrico (consigliato fino a - 40°C) predisposti per il collegamento 400V/3/50-60hz. **W-HG** = versione sbrinamento gas caldo più una resistenza elettrica nello sgocciolatoio.



Le **Mod. W** est un évaporateur (BLAST FREEZER) industriel au sol, pour chambres à froid et tunnel de congélation, pour une rapide descente des températures. Le **Mod. WM** est pour la conservation du produit frais ou congelé, écartement ailettes 6 mm. Le **MOD. WZ** est pour la congélation et conservation du produit surgelé, écartement ailettes 11 mm. Les moteurs du **Mod. W** sont ø 500 mm 400V/3/50hz à double vitesse . **W - SS** = sans dégivrage (recommandé jusqu'à 2°C). **W - ED** = avec dégivrage électrique (recommandé jusqu'à - 40°C) prédisposition pour la connexion 400V/3/50-60hz. **W-HG** = dégivrage gaz chaud avec une résistance en plus dans l'égouttoir.



The **MODEL W** is an industrial floor cooler (BLAST FREEZER), for cold room and deep-freezing tunnels, where a quick dejection of the temperature is requested. **WM MODEL** for fresh or frozen product storage, fin spacing 6 mm. **WZ MODEL** for freezing and frozen product storage, fin spacing 11 mm. The fans of **EP MODEL** are double speed ø 500 mm, 400V/3/50hz. **W - SS** = without defrost (recommended till 2°C) **W - ED** = with electrical defrost (recommended till - 40°C), arranged for the connection 400V/3/50-60Hz. **W-HG** = hot gas defrost with one heater more in drip tray.



МОД. W – это промышленный воздушный испаритель (Blast freezer) напольный для холодильных камер и туннелей быстрой заморозки, в которых требуется быстро понижать температуру. **МОД. WM** рекомендуется для хранения свежих и замороженных продуктов, шаг лопастей 6 мм **МОД. WZ** рекомендуется для замораживания и хранения быстрозамороженных продуктов, шаг лопастей 11 мм. Двигатели **МОД. EP** имеют ø 500 мм. Трехфазные 400в/3/50 Гц двухскоростные с внешним. **W - SS** = вариант без размораживания (рекомендуется до 2°C). **W - ED** = вариант с электрическим размораживанием (рекомендуется до - 40°C), для сети 400в /3/50-60Гц. **W-HG** = размораживание горячим газом с одним нагревателем больше в поддон.

Modello	Condizioni d'uso:	Passo Alette:
Model	Use Conditions:	Fin Spacing:
M	2°C -18°C	mm 6
Z	0°C -40°C	mm 11



**MOTORI DOPPIA VELOCITA
DOUBLE SPEED MOTORS**



IT	Motori	DT1=8K	Aria	Freccia	Superficie	Vol.Int.	Consumo	400V.	Sbrinam.	Attacchi	Scarico	Peso
UK	Motor	KW	Air	Arrow	Surface	Int.Vol.	Consum.	3ph 50hz	Defrost	IN/OUT	Con.Dra.	Net W.
MODEL	N°Xd.	R404A	m ³ /h	Mt.	m ²	dm ³	W	A	ED W	mm	D.mm	Kg

WM 1	2x500	19	15200	20	75	19	1560/1100	2,7/1,88	12960	16-35	50	85
WM 2	2x500	25	15200	20	100	25	1560/1100	2,7/1,88	12960	16-35	50	95
WM 3	3x500	30	23400	20	112	28	2340/1650	4,05/2,82	18000	22-42	50	120
WM 4	3x500	33	23400	20	148	37	2340/1650	4,05/2,82	18000	22-42	50	140
WM 5	4x500	39	30400	20	149	37	3120/2200	5,4/3,76	18000	28-54	50	160
WM 6	4x500	50	30400	20	197	50	3120/2200	5,4/3,76	18000	28-54	50	180

WZ 1	2x500	15	15600	20	48	19	1560/1100	2,7/1,88	12960	16-35	50	80
WZ 2	2x500	20	15600	20	64	25	1560/1100	2,7/1,88	12960	16-35	50	90
WZ 3	3x500	24	24000	20	72	28	2340/1650	4,05/2,82	18000	22-42	50	110
WZ 4	3x500	29	24000	20	95	37	2340/1650	4,05/2,82	18000	22-42	50	130
WZ 5	4x500	33	31200	20	96	37	3120/2200	5,4/3,76	18000	28-54	50	150
WZ 6	4x500	40	31200	20	125	50	3120/2200	5,4/3,76	18000	28-54	50	170



ED = SBRINAMENTO ELETTRICO
SS = SENZA SBRINAMENTO
HG = SBRINAMENTO GAS CALDO



ED = ELECTRIC DEFROST
SS = WITHOUT DEFROST
HG = HOT GAS DEFROST

Capacità reali di impiego alle condizioni di utilizzo:

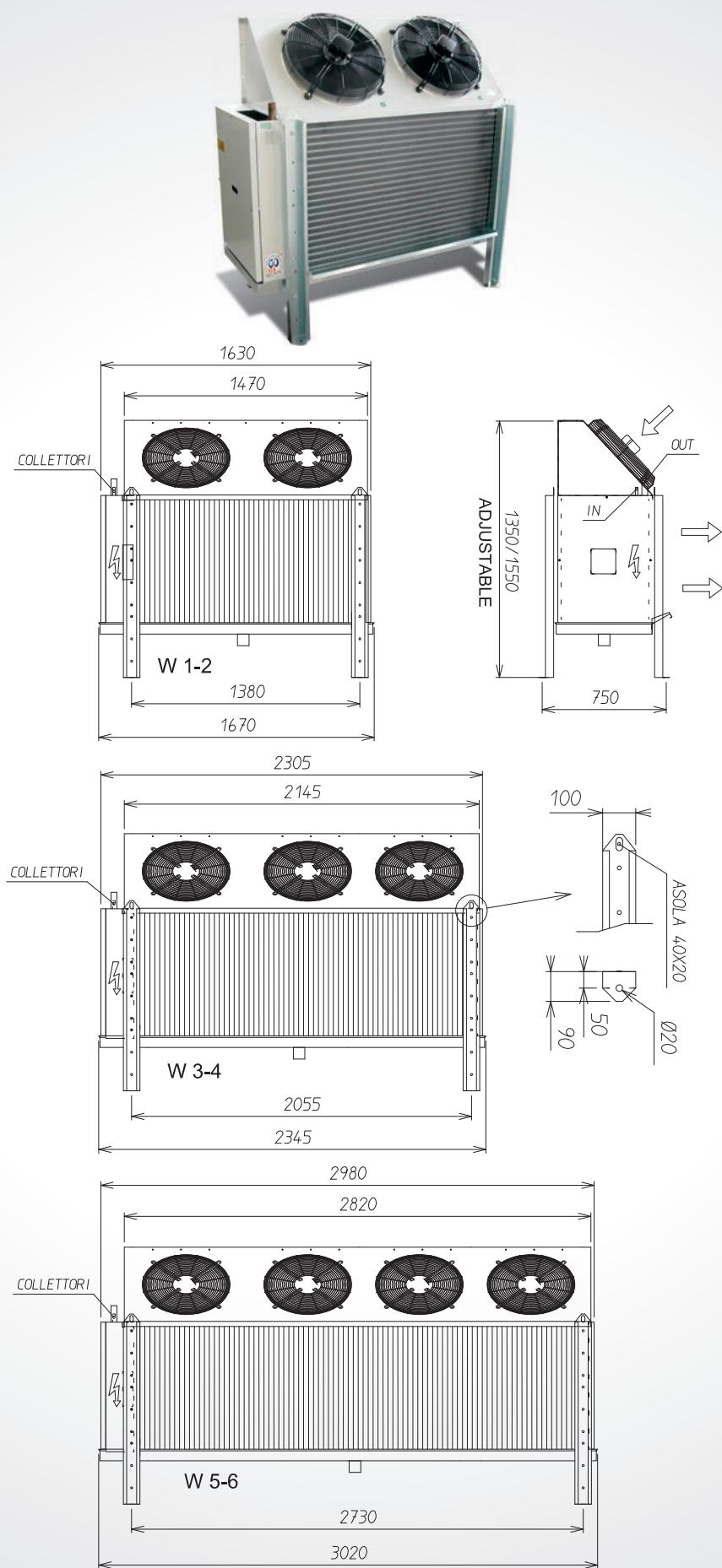
Umidità in cella 85%
Refrigerante R404A
Temperatura ingresso aria 0°C
Temperatura evaporazione -8°C = DT8K

usare valvola termostatica con equalizzatore esterno

Real capacities with following use conditions:

Humidit in the cold room 85%
Refrigerant fluid R404A
Air entering temp. 0°C
Evaporating temp. -8° C = DT8K

use externally equalized thermostatic expansion valve



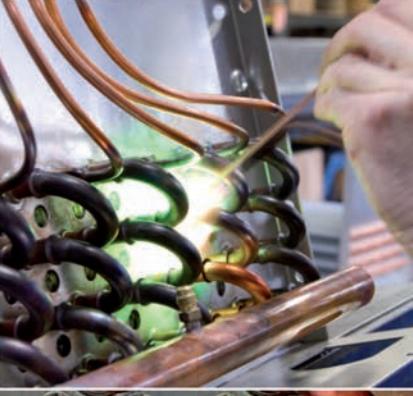
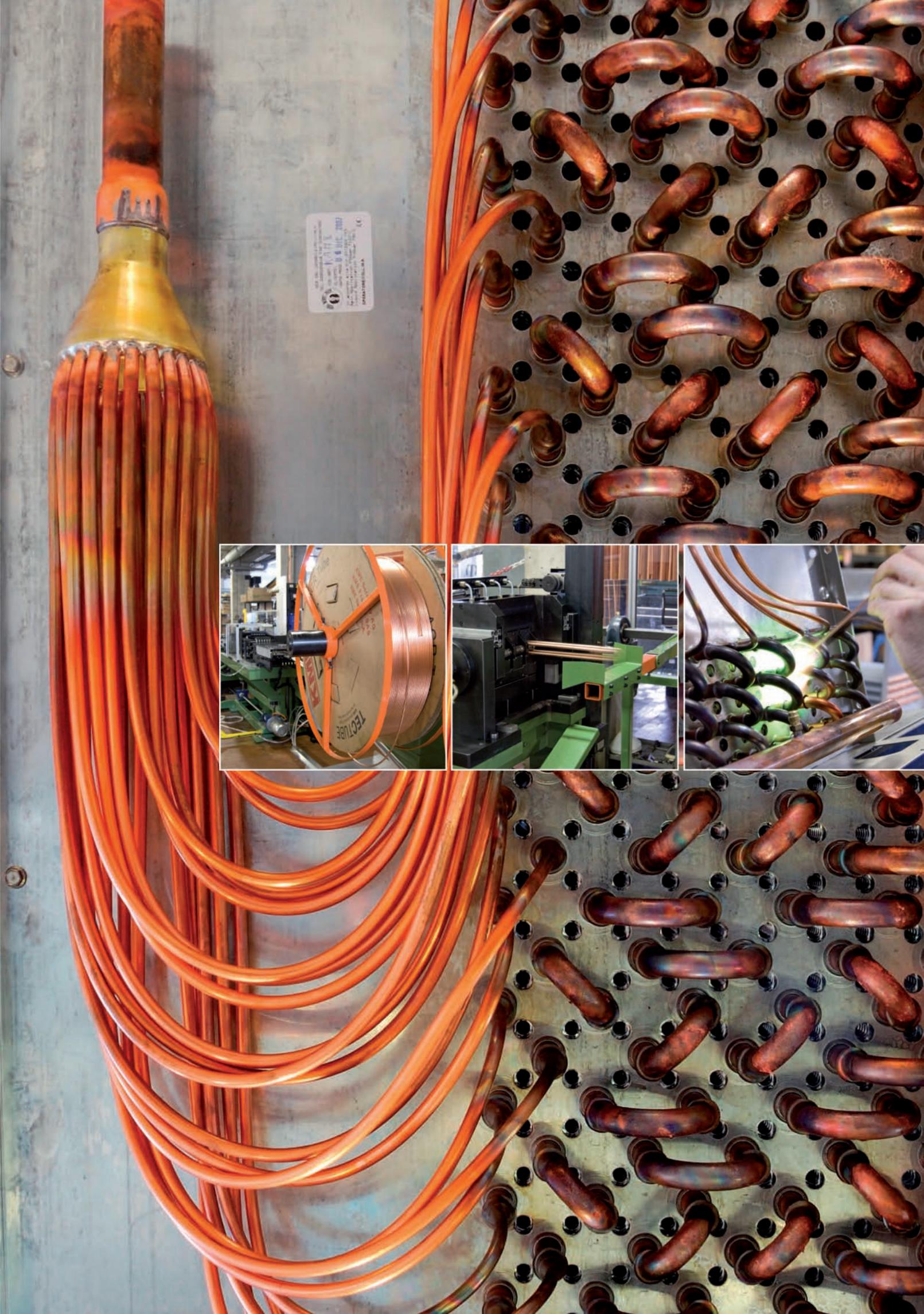


Tabella di selezione condensatori remoti / Remote condenser selection



Le potenze dei condensatori remoti sono conformi alle normative ENV 327.

Refrigerante: R404A

Temperatura ambiente: 25°C

Temperatura di condensazione: 40°C

La potenza richiesta per un condensatore può essere ottenuta mediante la seguente formula:

P.c. = Potenza richiesta al condensatore.

P.a. = Potenza dell'evaporatore alle condizioni di utilizzo.

F.c. = Coefficiente funzione del tipo di compressore.

(FC1 Aperto- FC2 Ermetico-Semiermetico)

Esempio di selezione:

P.a. = **71KW**

T.evaporazione **-20°C**

T.condensazione **+45°C**

Compressore semiermetico

P.c. = 71KW x 1,48 = **105KW**

Ricerca della potenza di un Condensatore alle diverse condizioni di utilizzo da quelle tecniche:

P.c. = P.c.t. x T1 x T2 x T3 x T4

P.c. : = Potenza del condensatore.

P.c.t. : = Potenza del condensatore nelle condizioni delle caratteristiche tecniche.

T1: = Coefficiente relativo al Dt.

T2: = Coefficiente relativo alla temperatura ingresso aria.

T3: = Coefficiente relativo al refrigerante.

T4: = Coefficiente relativo all'altitudine

Ricerca di un modello di condensatore alle diverse condizioni di utilizzo:

Ricerca di un modello **CF**:

Tipo di compressore = **Semiermetico**.

Refrigerante = **R404A**.

Potenza frigorifera dell'evaporatore = **KW 30**

Temperatura di evaporazione = **- 25°C**

Temperatura di condensazione = **+ 40°C**

Temperatura dell'aria = **+ 30°C**

Altitudine istallazione = **800 m.**

Pressione sonora = **m 7 35,5db.**

Dt. 40-30 = 10 K

Fc1 = 1,51

T1 = 0,67

T2 = 0,99

T3 = 1

T4 = 0,94

30000 x 1,51

P.c.t. = ----- = **W 36,327**

0,67 x 0,99 x 1 x 0,94

Il condensatore individuato è il **CF 363 L 3**

Pressione Sonora a 10 m.db 33

P.c.t.=kw 72,65 LPA 7 m.= 33 + 2,5 = 35,5 db



Condensers performances

are tested in accordance with ENV 327.

Refrigerant fluid : R404A

room temperature : 25°C

condensing temperature: 40°C

The requested capacity for a Condenser can be obtained following the above instructions:

P.c. = requested capacity for the Condenser.

P.a. = Evaporator capacity at the use conditions.

F.c. = coefficient function of the type of the compressor

(FC1 Open- FC2 hermetic -Semi-hermetic)

Selection example:

P.a. = **71KW**

Evaporating Temp. **-20°C**

Condensing Temp. **+45°C**

Semi-hermetic compressor

P.c. = 71KW x 1,48 = **105KW**

To find a capacity of a Condenser at use conditions different from technical conditions:

P.c. = P.c.t. x T1 x T2 x T3 x T4

P.c. : = Condenser Capacity.

P.c.t. : = Condenser capacity at technical feature conditions.

T1: = Coefficient referring Dt.

T2: = Coefficient referring inlet air temperature.

T3: = Coefficient referring to the refrigerant.

T4: = Coefficient referring to the altitude

To find a model of Condenser at different Use Conditions:

Compressor Type = **Semi-hermetic**.

Refrigerant = **R404A**.

Refrigerating capacity of the Evaporator = **KW 30**

Evaporating temperature = **- 25°C**

Condensing temperature = **+ 40°C**

Air Temperature = **+ 30°C**

Installation Altitude = **600 m.**

Noise pressure level = **m 7 35,5db.**

Dt. 40-30 = 10 K

Fc1 = 1.51

T1 = 0.67

T2 = 0.99

T3 = 1

T4 = 1.042

30000 x 1,51

P.c.t. = ----- = **W 36,327**

0,67 x 0,99 x 1 x 0,94

On the base of the requested details the model is:

il CF 363 L 3 noise pressure level at 10 m.db 33

P.c.t.=kw 72,65 LPA 7 m.= 33 + 2,5 = 35,5 db

Tabella di selezione condensatori / Condenser selection list / Таблица подбора конденсаторов

FC 1: Coefficiente per compressori aperti / Coefficient for open compressor / Коэффициент для сальникового компрессора													
T. EVAP.	°C	-40	-35	-30	-25	-20	-15	-10	-5	-0	+5	+10	
T. COND. ТЕМПЕРАТУРОЙ КОНДЕНСАЦИИ	°C	35	1,46	1,41	1,36	1,32	1,28	1,25	1,21	1,18	1,15	1,13	1,10
		40	1,51	1,45	1,4	1,35	1,32	1,28	1,24	1,21	1,18	1,15	1,13
		45	1,56	1,5	1,45	1,4	1,36	1,32	1,28	1,24	1,21	1,18	1,15
		50	1,62	1,55	1,5	1,45	1,4	1,35	1,31	1,28	1,24	1,21	1,18
		55	1,68	1,62	1,55	1,5	1,45	1,4	1,35	1,31	1,28	1,24	1,21

FC 2: Coefficiente per compressori ermetici e semi ermetici / Coefficient for hermetic and semi hermetic compressor / Коэффициент для герметичных и полугерметичных компрессоров													
T. EVAP.	°C	-40	-35	-30	-25	-20	-15	-10	-5	-0	+5	+10	
T. COND. ТЕМПЕРАТУРОЙ КОНДЕНСАЦИИ	°C	35	1,68	1,60	1,53	1,47	1,41	1,35	1,31	1,27	1,23	1,19	1,14
		40	1,77	1,66	1,58	1,51	1,44	1,39	1,34	1,29	1,25	1,21	1,18
		45	1,88	1,74	1,63	1,55	1,48	1,43	1,38	1,33	1,29	1,24	1,21
		50	2,04	1,86	1,72	1,62	1,54	1,48	1,42	1,37	1,33	1,28	1,24
		55	2,28	2,08	1,90	1,75	1,62	1,53	1,46	1,41	1,37	1,32	1,25

T 1													
▲T(K)*	8	9	10	11	12	13	14	15	16	17	18	19	20
	0,53	0,6	0,67	0,73	0,8	0,87	0,93	1	1,07	1,13	1,2	1,27	1,33

T 2												
T. Ingr. aria / T.inlet air / Temperaturaой воздуха	°C	15	20	25	30	35	40	45	50			
		1,03	1,02	1	0,99	0,97	0,95	0,94	0,93			

T 3												
Coeff.refrigerante / Refrigerant factor / Охлаждающих	R407C	R134A	R404A	R507A	R448A	R449A	R452A	R410A				
	0,87	0,93	1	1	1	1	1	1,05				

T 4												
Altitudine / Altitude / Высота	m.	0	600	800	1000	1200	1400	1600	1800	2000		
			1,04	1,06	1,08	1,09	1,10	1,12	1,14	1,15		

FC 5													
Livello di pressione sonora / Noise pressure level Уровня звукового давления	DISTANCE mt. CORRECTION db	2	3	4	5	7	10	20	30	40	50	60	80
		11	8,5	7	5	2,5	0	-3	-5,5	-9	-11	-14	-16

Legenda / Legend / Обозначение												
FC 1	Fattore di correzione per scelta condensatore Correction factor for condenser choice Коэффициент коррекции для выбора конденсатора											
▲*T	Differenza tra l'aria in ingresso nel condensatore e la temperatura di condensazione Temperature difference between air inlet temp. In the cooler and refrigerant evaporating temp. Разница между температурой воздуха, поступающего в конденсатор, и температурой конденсации											
T 2	Coefficiente temp. Ingresso aria Inlet air temp. Коэффициент темп. Поступающего воздуха											
T 3	Fattore di correzione per fluidi refrigeranti Correction factor for refrigerant fluids Коэффициент коррекции для охлаждающих / жидкостей											
T 4	Coefficiente altitudine Altitude factor Коэффициент высоты											
FC 5	Fattore di correzione del livello di pressione sonora Correction factor of the noise pressure level Таблица уровня звукового давления на различном расстоянии											

Condensatori ad aria silenziati con vano compressore e accessori insonorizzato

Condenseur à air avec compartiment sourdine

Silenced air condensers with hole for compressor and equipments, completely free of noise

Малошумный конденсатор воздушного охлаждения в кожухе с местом для установки компрессорного агрегата



CS - Condensatore ad aria silenziato con vano compressore e accessori insonorizzato. **CS** con motore ø 315 mm. 230v 1ph 50/60 hz, con motore ø 350 mm. 230v 1ph 50/60 hz, con motore ø 400 mm. 230v 1ph 50/60 hz, con motore ø 450 mm. 230v 1ph 50/60 hz, con motore ø 500 mm. 230v 1ph 50/60 hz, e con motore ø 560 mm. 230v 1ph 50/60 hz.



CS – Condenseurs à air silencieux avec la niche pour le compresseur et les accessoires, completement sans bruit.MOD. **CS** avec moteur ø 315 mm. 230v 1ph 50/60hz,avec moteur ø 350 mm. 230v 1ph 50/60hz,avec moteur ø 400 mm. 230v 1ph 50/60hz, avec moteur ø 450 mm. 230v 1ph 50/60hz,avec moteur ø 500 mm. 230v 1ph 50/60hz,avec moteur ø 560 mm. 230v 1ph 50/60hz.



CS - Silenced air condensers with hole for compressor and equipments, completely free of noise. **MODEL SERIE CS** with motor ø 315 mm. 230v 1ph 50/60hz, with motor ø 350 mm. 230v 1ph 50/60hz, with motor ø 400 mm. 230v 1ph 50/60hz, with motor ø 450 mm. 230v 1ph 50/60hz, with motor ø 500 mm. 230v 1ph 50/60hz, with motor ø 560 mm. 230v 1ph 50/60hz.



CS Малошумный конденсатор воздушного охлаждения в кожухе с местом для установки компрессорного агрегата. **МОД CS** с мотором ø 315 мм, монофазным, 230в 1/50-60Гц, с мотором ø 350 мм, монофазным, 230в 1/50-60Гц, с мотором ø 400 мм, монофазным, 230в 1/50-60Гц, с мотором ø 450 мм, монофазным, 230в 1/50-60Гц, с мотором ø 500 мм, монофазным, 230в 1/50-60Гц, с мотором ø 560 мм, монофазным, 230в 1/50-60Гц.



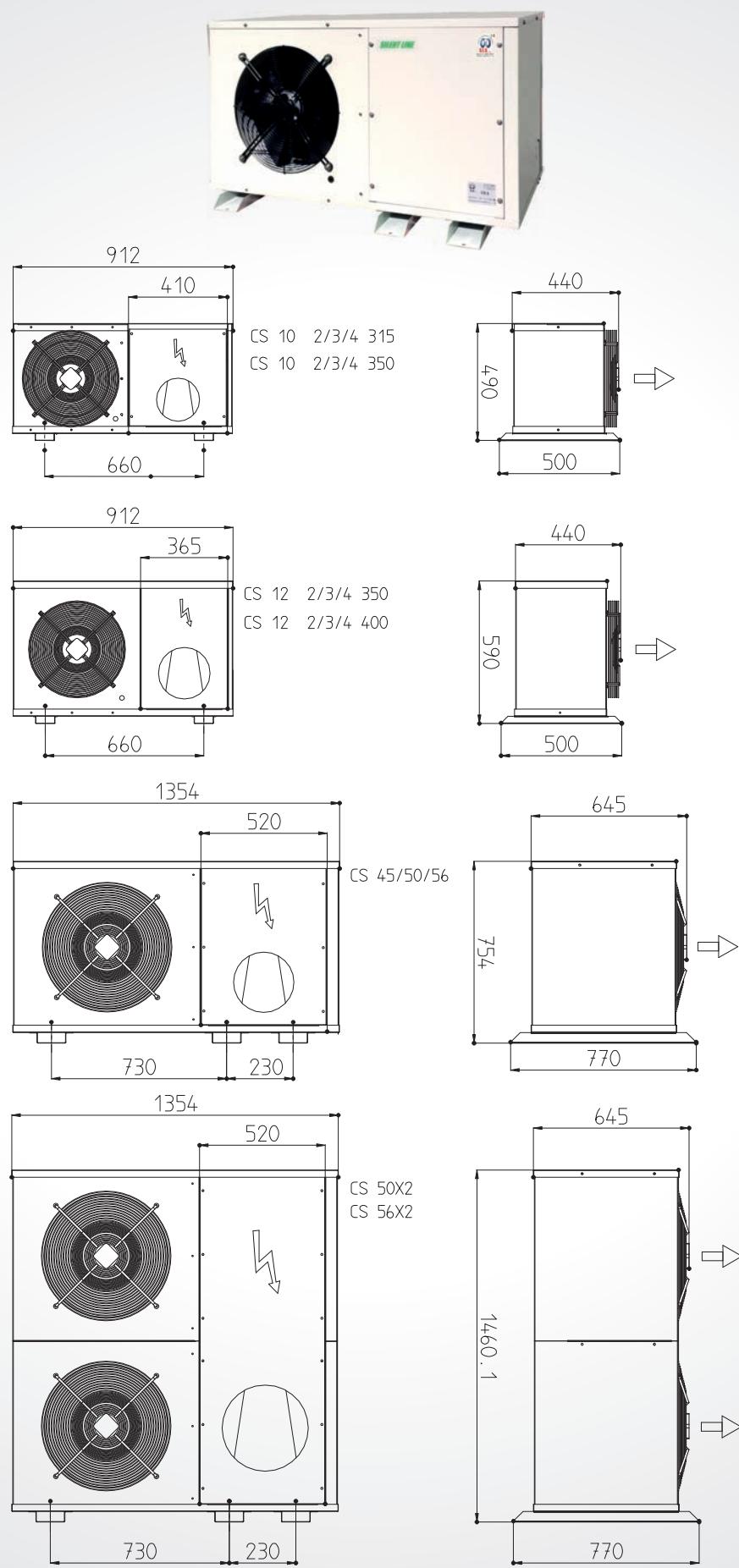
Motori	DT=15	RPM	Ipa 10	Aria	Consumo	230V	Superficie	Vol. int.	Refrig.	Peso
Motors	KW		db	Air	Consumption	1ph 50hz	Surface	Int. Vol.	In-Out	Net W.
MODEL	n° x D.	R404A		m³/h	W	A	m²	dm³	mm	kg
CS10-2-315	1x315	3.3	1350	48	1550	102/120	0,52/0,53	7.5	0.6	12-10
CS10-3-315	1x315	4.8	1350	48	1550	102/120	0,52/0,53	11	0.9	16-12
CS10-4-315	1x315	5.8	1350	48	1550	102/120	0,52/0,53	15	1.2	16-12
CS10-2-350L	1x350	3.5	1040	46	1700	60/85	0,27/0,38	7.5	0.6	12-10
CS10-3-350L	1x350	5	1040	46	1700	60/85	0,27/0,38	11	0.9	16-12
CS10-4-350L	1x350	6	1040	46	1700	60/85	0,27/0,38	15	1.2	16-12
CS10-2-350H	1x350	4.1	1350	50	2300	135/175	0,62/0,77	7.5	0.6	12-10
CS10-3-350H	1x350	6.2	1350	50	2300	135/175	0,62/0,77	11	0.9	16-12
CS10-4-350H	1x350	7.7	1350	50	2300	135/175	0,62/0,77	15	1.2	16-12
CS12-2-350L	1x350	4.3	1040	46	1700	60/85	0,27/0,38	10	0.8	16-12
CS12-3-350L	1x350	5.9	1040	46	1700	60/85	0,27/0,38	15	1.2	16-12
CS12-4-350L	1x350	7	1040	46	1700	60/85	0,27/0,38	20	1.7	16-12
CS12-2-350H	1x350	5.3	1350	50	2300	135/175	0,62/0,77	10	0.8	16-12
CS12-3-350H	1x350	7.2	1350	50	2300	135/175	0,62/0,77	15	1.2	16-12
CS12-4-350H	1x350	8.6	1350	50	2300	135/175	0,62/0,77	20	1.7	16-12
CS12-2-400L	1x400	5.5	870	46	2800	120/150	0,53/0,67	10	0.8	16-12
CS12-3-400L	1x400	8	870	46	2800	120/150	0,53/0,67	15	1.2	16-12
CS12-4-400L	1x400	9.8	870	46	2800	120/150	0,53/0,67	20	1.7	16-12
CS12-2-400H	1x400	6	1430	50	3300	160/240	0,73/1,06	10	0.8	16-12
CS12-3-400H	1x400	9	1430	50	3300	160/240	0,73/1,06	15	1.2	16-12
CS12-4-400H	1x400	11	1430	50	3300	160/240	0,73/1,06	20	1.7	16-12
CS 45	1x450	14	870	43	3900	125	0.62	38	5.5	22-28
CS 50	1x500	17	870	46	5000	335	1.65	38	5.5	22-28
CS 56	1x560	21	870	47	7000	430	1.95	38	5.5	22-28
CS 50x2	2x500	34	870	47	10000	670	3.3	76	11	22-28
CS 56x2	2x560	42	870	49	14000	860	3.9	76	11	22-28
										69



CAPACITÀ CALCOLATA CON TEMPERATURA AMBIENTE 25°C
E TEMPERATURA DI CONDENSAZIONE 40°C R 404A

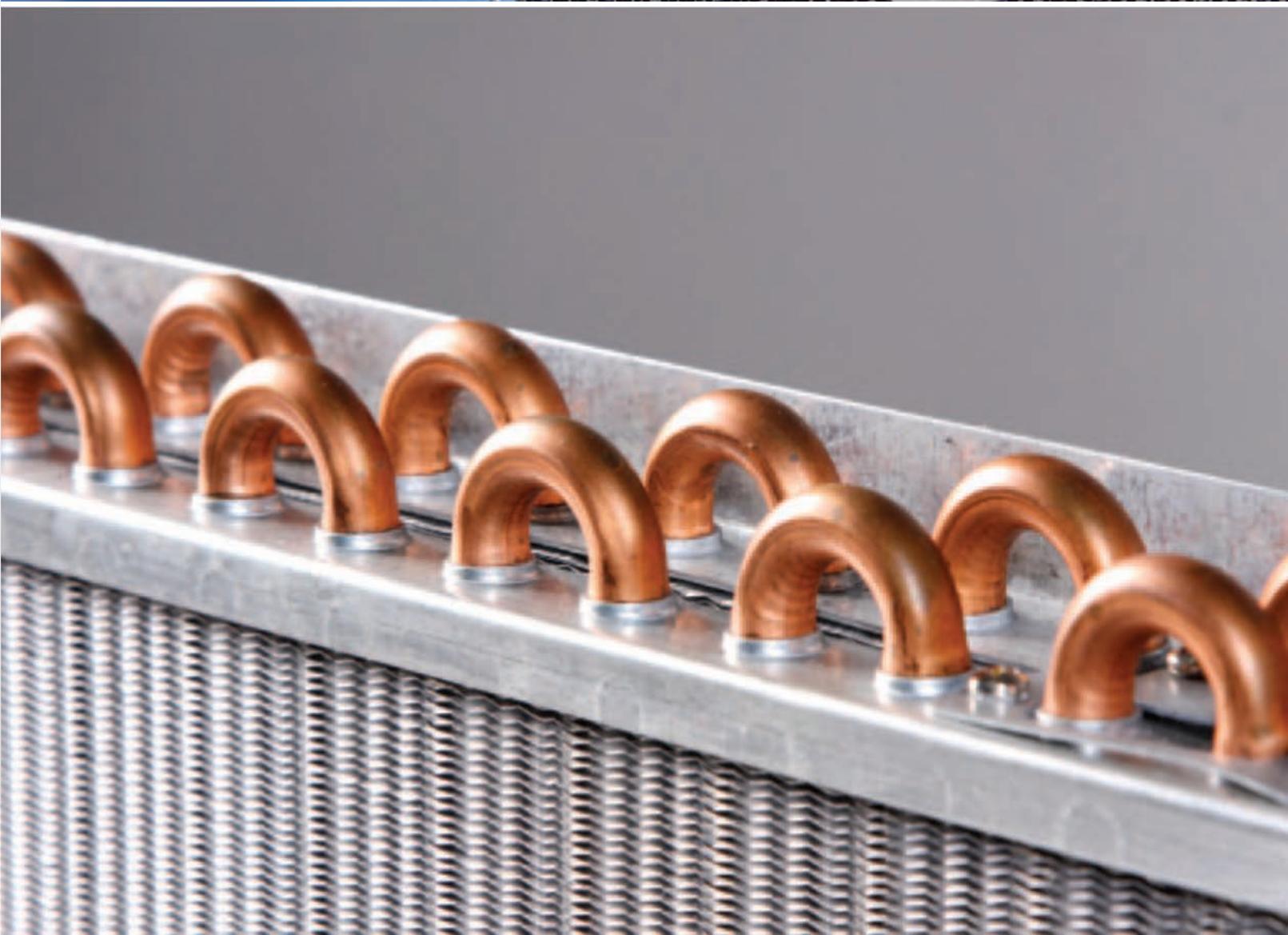
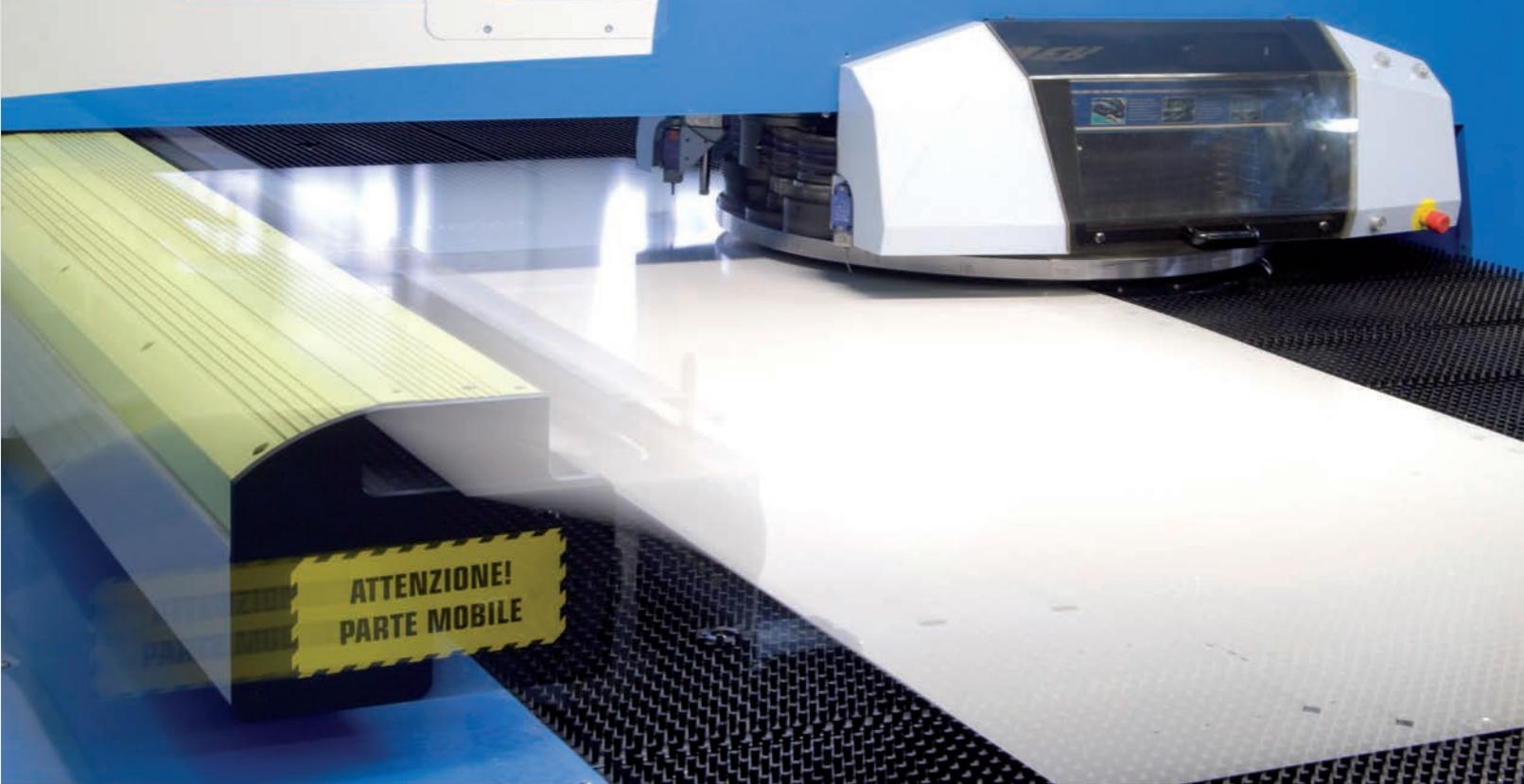


CAPACITY CALCULATED WITH ROOM TEMPERATURE 25°C
AND CONDENSING TEMPERATURE 40°C R 404A



EE

e FINN-POWER

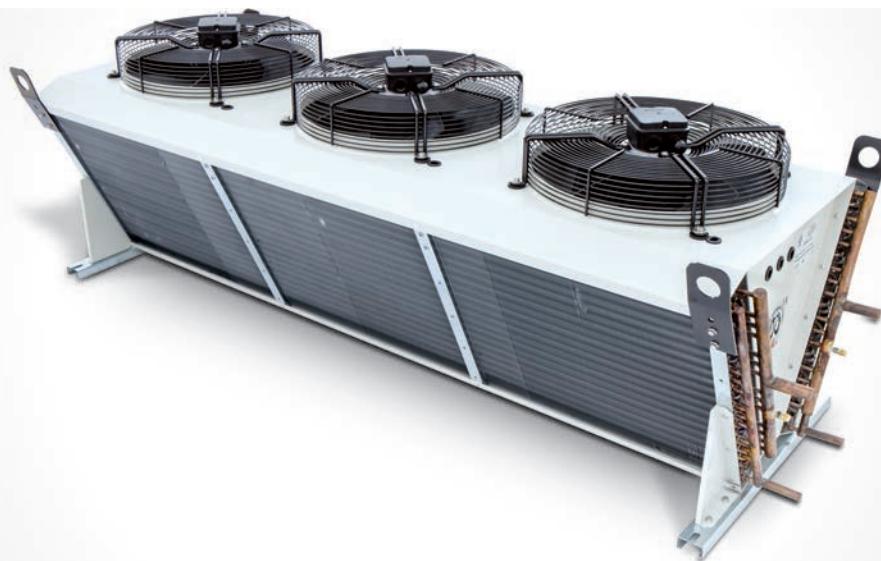


Condensatori remoti serie commerciale per ingombri ridotti V

Condenseur à air reduit V

Remote air condensers commercial series with reduced space

Дистанционные конденсаторы коммерческих серий для малых размеров



I condensatori della **serie CV45** sono condensatori remoti a V adatti per varie applicazioni, dal condizionamento e refrigerazione commerciale a quella industriale. **Mod. CV45:** condensatore remoto con motoventilatori Ø 450mm, monofase 230v/1/50-60hz a rotore esterno con condensatore di spunto incorporato, passo alette mm. 2,1.



Les condenseurs de la série **CV45** sont condenseurs à V indiqués pour différentes applications, à partir du conditionnement et de la réfrigération commerciale, jusqu'à la réfrigération industrielle. **Mod. CV45:** condenseurs avec motoventilateur Ø 450mm, monophasé 230v/1/50-60hz avec rotor à l'extérieur, écartement ailettes mm. 2,1.



The condensers **MOD. CV45** are remote air condensers V, recommended for several applications from conditioning and commercial refrigeration till industrial refrigeration. **MOD. CV45:** remote condenser with fan motors Ø 450 mm, monophase, 230v/1/50-60hz, fin spacing mm. 2,1.



CV45 являются удалеными V воздушные конденсаторы, предназначенные для различного применения, начиная от кондиционирования и коммерческого или промышленного холодильного оборудования. МОД. CV45: дистанционный конденсатор с двигателями вентиляторов Ø 450 мм, однофазный, 230в/1/50-60 Гц, расстояние между ребрами 2,1 мм.



Motori	DT=15	Ipa 10m	Aria	Consumo	230V	Superfi.	Vol. int.	Refrig.	Peso	
Motors	KW	db	Air	Consumption	1ph 50/60hz	Surface	Int. Vol.	In/Out	Net W.	
MODEL	D. 450	R404A		m³/h	W	A	m²	dm³	mm	kg

rpm 1325

4p

CV45 1-2H	1x450	12	44	4900	490	2.36	25	2	16--12x2	22
CV45 1-3H	1x450	15	44	4900	490	2.36	37	3	16--12x2	25

CV45 2-2H	2x450	24	47	9800	980	4.72	50	4.1	22--16x2	44
CV45 2-3H	2x450	30	47	9800	980	4.72	70	6	22--16x2	50

CV45 3-2H	3x450	36	49	14700	1440	7.08	75	6.1	22--16x2	66
CV45 3-3H	3x450	46	49	14700	1440	7.08	111	9	22--16x2	75

CV45 4-2H	4x450	48	50	19600	1960	9.44	100	8.2	28--22x2	88
CV45 4-3H	4x450	61	50	19600	1960	9.44	136	12	28--22x2	100

rpm 900

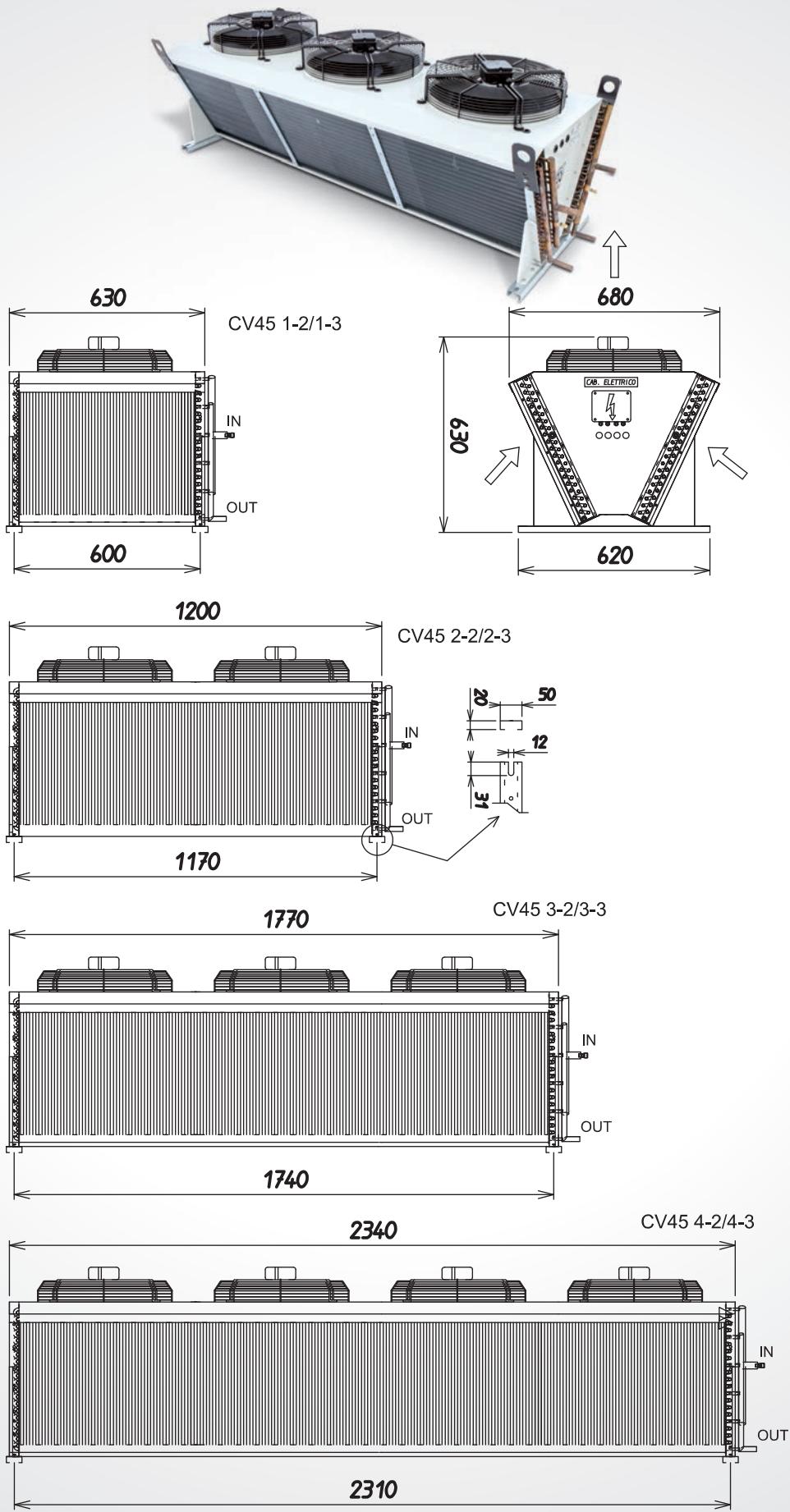
6p

CV45 1-2L	1x450	10	32	3500	190	0.86	25	2	16--12x2	22
CV45 1-3L	1x450	13	32	3500	190	0.86	37	3	16--12x2	25

CV45 2-2L	2x450	22	35	7000	380	1.72	50	4.1	22--16x2	44
CV45 2-3L	2x450	26	35	7000	380	1.72	70	6	22--16x2	50

CV45 3-2L	3x450	30	36	10500	570	2.58	75	6.1	22--16x2	66
CV45 3-3L	3x450	40	36	10500	570	2.58	111	9	22--16x2	75

CV45 4-2L	4x450	41	37	14000	760	3.44	100	8.2	28--22x2	88
CV45 4-3L	4x450	52	37	14000	760	3.44	136	12	28--22x2	100



Condensatori remoti serie commerciale

Condenseur à air commercial d.40

Remote air condenders commercial series

Дистанционные конденсаторы коммерческих серий



I condensatori della **serie CF40** sono condensatori remoti adatti per varie applicazioni, dal condizionamento e refrigerazione commerciale a quella industriale. **Mod. CF40:** condensatore remoto con motoventilatori Ø 400mm, monofase 230v/1/50-60hz passo alette mm. 2,1. Tutti i condensatori remoti della serie **CF40** possono avere il flusso d'aria orizzontale "H" o il flusso dell'aria verticale "V".



les condenseurs de la série **CF40** sont condenseurs pour différentes applications, à partir du conditionnement et réfrigération commercial, jusqu'au conditionnement et réfrigération industrielle. **Mod. CF40:** condenseur avec motoventilateurs Ø 400mm, monophase 230v/1/50-60hz., écartement ailettes mm. 2,1. Tous les condenseurs de la série **CF40** peuvent avoir le flux de l'air Horizontal "H" ou Vertical "V"



The condensers **MOD. CF40** are remote air condensers, recommended for several applications as conditioning and commercial or industrial refrigeration. **MOD. CF40:** remote condenser with fan motors Ø 400 mm, monophase, 230v/1/50-60hz, fin spacing mm. 2,1. It is possible to have the remote condenser **CF40** with the air flow horizontal "H" or air flow vertical "V".



Конденсаторов **MOD. CF40** являются выносными конденсаторами воздушного, предназначенные для различного применения, начиная от кондиционирования и коммерческого или промышленного холодильного оборудования. **MOD. CF40:** дистанционный конденсатор с двигателями вентиляторов Ø 400 мм, однофазный, 230в/1/50-60 Гц, мм расстояние между ребрами. 2,1. Можно иметь удаленный CF40 конденсатор с воздушным потоком горизонтальный "H" или вертикальный воздушный поток "V".



	Motori	DT=15	Ipa 10m	Aria	Consumo	230V	Superfi.	Vol. int.	Refrig.	Peso
	Motors	KW	db	Air	Consumption	1ph 50/60hz	Surface	Int. Vol.	In/Out	Net W.
MODEL	D. 400	R404A		m ³ /h	W	A	m ²	dm ³	mm	kg

rpm 1325
4p

CF40 1-2 H	1x400	6.1	45	3500	160	0.73	10	0.8	16--12	9
CF40 1-3H	1x400	9.1	45	3500	160	0.73	15	1.3	16--12	10
CF40 1-4H	1x400	10.1	45	3500	160	0.73	20	1.6	16--12	11

CF40 2-2H	2x400	11.1	48	7000	320	1.46	20	1.6	22--16	18
CF40 2-3H	2x400	17	48	7000	320	1.46	30	2.6	22--16	20
CF40 2-4H	2x400	21	48	7000	320	1.46	40	3.2	22--16	22

CF40 3-2H	3x400	22	50	10500	480	2.19	30	2.4	22--16	26
CF40 3-3H	3x400	26	50	10500	480	2.19	45	3.9	22--16	29
CF40 3-4H	3x400	32	50	10500	480	2.19	60	4.8	22--16	32

CF40 4-2H	4x400	27	51	14000	640	2.92	40	3.2	28--22	36
CF40 4-3H	4x400	41	51	14000	640	2.92	60	5.2	28--22	40
CF40 4-4H	4x400	42	51	14000	640	2.92	80	6.4	28--22	44

CF40 6-3H	6x400	53	53	21000	960	4.38	90	7.8	28--22	58
CF40 6-4H	6x400	63	53	21000	960	4.38	120	9.6	28--22	64

rpm 900
6p

CF40 1-2L	1x400	5	33	2800	120	0.55	10	0.8	16--12	9
CF40 1-3L	1x400	8	33	2800	120	0.55	15	1.3	16--12	10
CF40 1-4L	1x400	9	33	2800	120	0.55	20	1.6	16--12	11

CF40 2-2L	2x400	10	36	5600	240	1.1	20	1.6	22--16	18
CF40 2-3L	2x400	15	36	5600	240	1.1	30	2.6	22--16	20
CF40 2-4L	2x400	17	36	5600	240	1.1	40	3.2	22--16	22

CF40 3-2L	3x400	18	37	8400	360	1.65	30	2.4	22--16	26
CF40 3-3L	3x400	23	37	8400	360	1.65	45	3.9	22--16	29
CF40 3-4L	3x400	27	37	8400	360	1.65	60	4.8	22--16	32

CF40 4-2L	4x400	24	38	11200	480	2.2	40	3.2	28--22	36
CF40 4-3L	4x400	36	38	11200	480	2.2	60	5.2	28--22	40
CF40 4-4L	4x400	37	38	11200	480	2.2	80	6.4	28--22	44

CF40 6-3L	6x400	45	39	16800	720	3.3	90	7.8	28--22	58
CF40 6-4L	6x400	54	39	16800	720	3.3	120	9.6	28--22	64



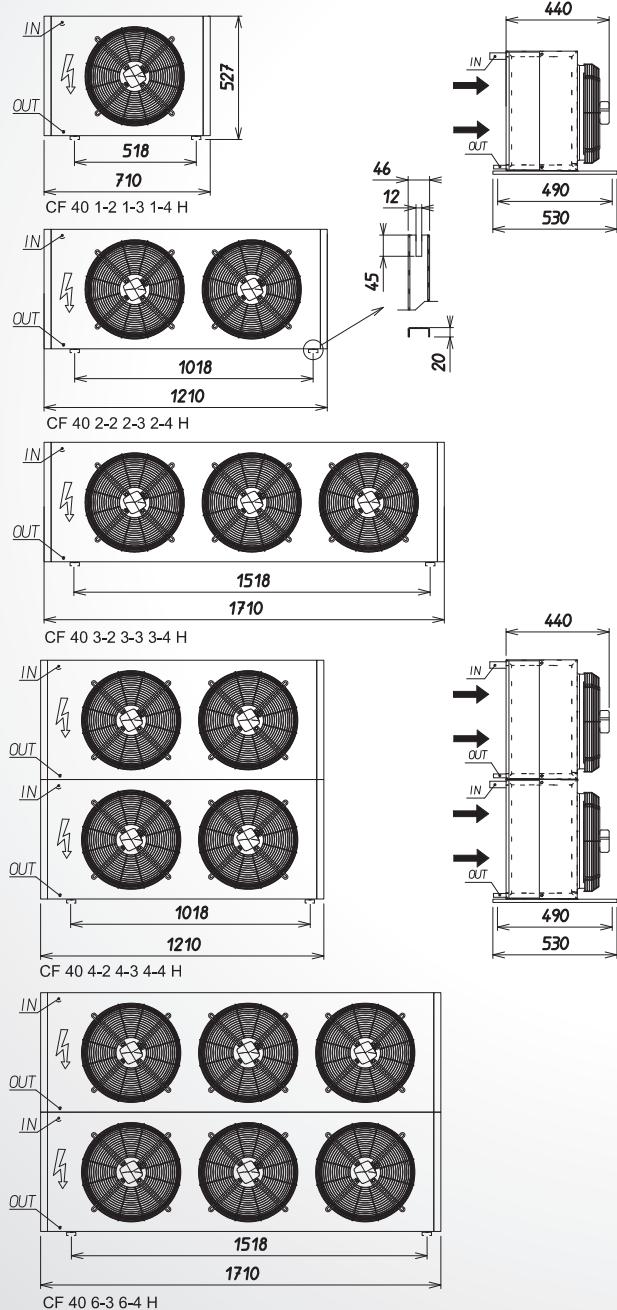
CAPACITÀ CALCOLATA CON TEMPERATURA AMBIENTE 25°C
E TEMPERATURA DI CONDENSAZIONE 40°C R 404A



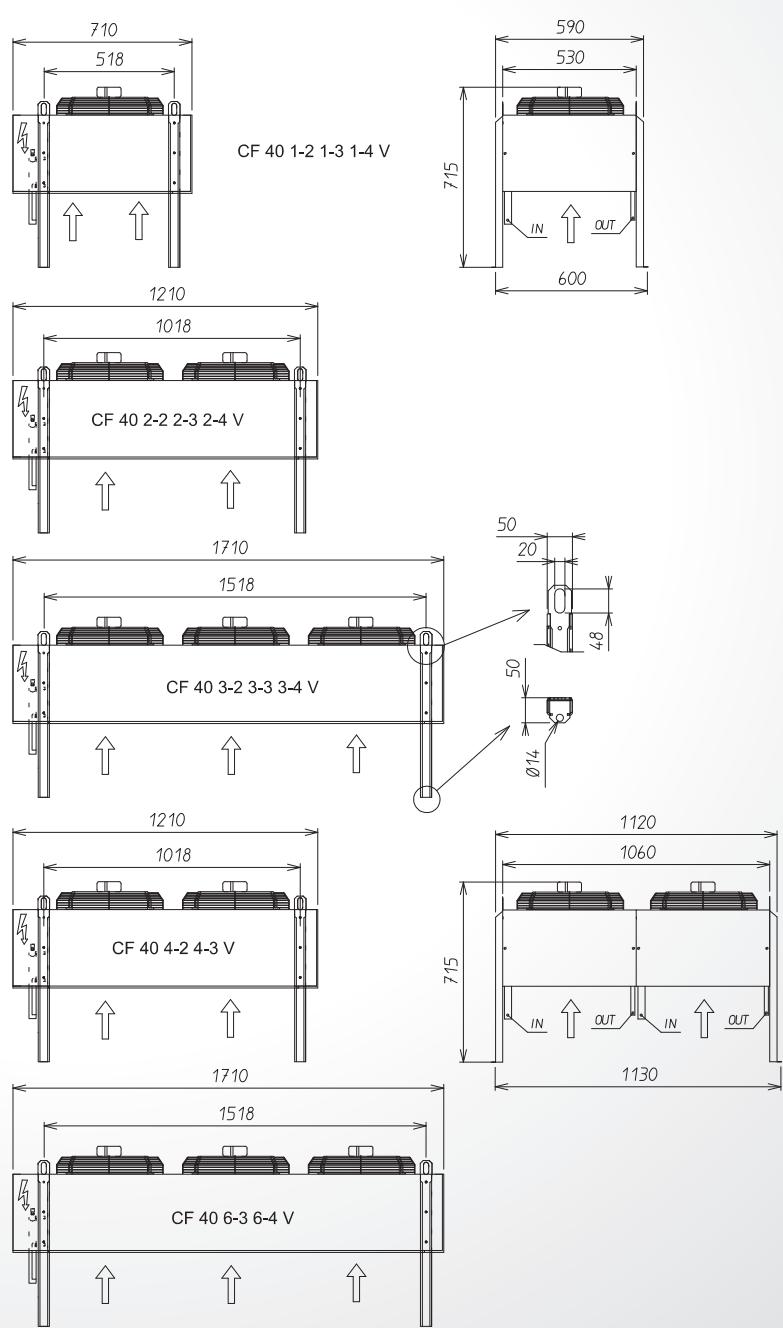
CAPACITY CALCULATED WITH ROOM TEMPERATURE 25°C
AND CONDENSING TEMPERATURE 40°C R 404A



CF40 H



CF40 V



*Condensatori remoti
Condenseur à air d.50
Remote air condensers
Дистанционные конденсаторы*



I condensatori della **serie MOD.CF50** sono condensatori remoti adatti per varie applicazioni, dal condizionamento e refrigerazione commerciale a quella industriale. **Mod. CF50 S-H-M-L 500:** condensatore remoto con motoventilatori ø 500mm, 400v/3/50hz 4/6 poli. passo alette mm. 2,1. La sigla S-H-M-L differenzia le varie velocità del motoventilatore. Tutti i condensatori remoti della serie **CF50** possono avere il flusso d'aria orizzontale "H" o il flusso dell'aria verticale "V". I motoventilatori 400v/3/50hz sono a doppia velocità.



Les condenseurs de la série **CF50** sont condenseurs pour différentes applications, à partir du conditionnement et réfrigération commercial, jusqu'au conditionnement et réfrigération industrielle. **Mod. CF50 S-H-M-L 500** condenseur avec motoventilateurs ø 500mm, 3 phases 400v/3/50hz., 4/6 poles écartement ailettes mm. 2,1. La lettre **S-H-M-L indique les différentes vitesses du motoventilateur.** Tous les condenseurs de la série **CF50** peuvent avoir le flux de l'air Horizontal "H" ou Vertical "V". Tous les motoventilateurs 400v/3/50hz sont à double vitesse.



The condensers **MOD. CF50** are remote air condensers, recommended for several applications from conditioning and commercial till industrial refrigeration. **MOD. CF50 S-H-M-L 500:** remote condenser with fan motor ø 500mm., 3 phases, 400v/3/50hz 4/6 poles, fin spacing mm. 2,1. The letters S-H-M-L - specify the different speeds of the fan motor. It is possible to get the remote condenser **CF50** with the air flow horizontal "H" or air flow vertical "V". All the fan motors 400v/3/50hz are with double speed.



Конденсаторы серии **SERIE CF50** - дистанционные конденсаторы, предназначенные для различного применения, начиная от кондиционирования и охлаждения в торговом оборудовании до промышленного использования. **МОД. CF50 S-H-M-L 500:** дистанционный конденсатор с мотовентиляторами ø 500 мм, 400в/3/50 Гц 4/6 полюсными, шаг лопастей 2,1 мм. Сокращение S-H-M-L обозначает разные скорости мотовентилятора. Все дистанционные конденсаторы серии **CF50** предусматривают горизонтальный "H" или вертикальный воздушный поток "V". Мотовентиляторы 400в/3/50 Гц двухскоростные.



CAPACITÀ CALCOLATA CON TEMPERATURA AMBIENTE 25°C
E TEMPERATURA DI CONDENSAZIONE 40°C R 404A



CAPACITY CALCULATED WITH ROOM TEMPERATURE 25°C
AND CONDENSING TEMPERATURE 40°C R 404A



	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.
MODEL	D. 500	R404A			m³/h	kW	A	m²	dm³	mm	mm	kg

CF 150 S 2	1x500	14	1340	52	7400	DELTA 0,71	1.4	20	2	22	16	40
CF 150 H 2	1x500	12	1000	45	5700	STAR 0,48	0.8	20	2	22	16	40
CF 150 M 2	1x500	11	900	40	5500	DELTA 0,27	0.69	20	2	22	16	40
CF 150 L 2	1x500	9	640	36	3600	STAR 0,19	0.4	20	2	22	16	40

CF 150 S 3	1x500	18	1340	52	7000	DELTA 0,71	1.4	30	3	28	16	45
CF 150 H 3	1x500	15	1000	45	5300	STAR 0,48	0.8	30	3	28	16	45
CF 150 M 3	1x500	14	900	40	4600	DELTA 0,27	0.69	30	3	28	16	45
CF 150 L 3	1x500	12	640	36	3250	STAR 0,19	0.4	30	3	28	16	45

CF 150 S 6	1x500	24	1340	52	5900	DELTA 0,71	1.4	59	5	28	16	50
CF 150 H 6	1x500	20	1000	45	4450	STAR 0,48	0.8	59	5	28	16	50
CF 150 M 6	1x500	17	900	40	3700	DELTA 0,27	0.69	59	5	28	16	50
CF 150 L 6	1x500	13	640	36	2800	STAR 0,19	0.4	59	5	28	16	50

CF 250 S 3	2x500	36	1340	54	14000	DELTA 1,42	2.8	59	5	28	22	79
CF 250 H 3	2x500	31	1000	47	10600	STAR 0,96	1.6	59	5	28	22	79
CF 250 M 3	2x500	28	900	42	9200	DELTA 0,54	1.38	59	5	28	22	79
CF 250 L 3	2x500	22	640	38	6500	STAR 0,38	0.8	59	5	28	22	79

CF 250 S 4	2x500	43	1340	54	13200	DELTA 1,42	2.8	77	7	28	22	89
CF 250 H 4	2x500	35	1000	47	10000	STAR 0,96	1.6	77	7	28	22	89
CF 250 M 4	2x500	32	900	42	8600	DELTA 0,54	1.38	77	7	28	22	89
CF 250 L 4	2x500	24	640	38	5900	STAR 0,38	0.8	77	7	28	22	89

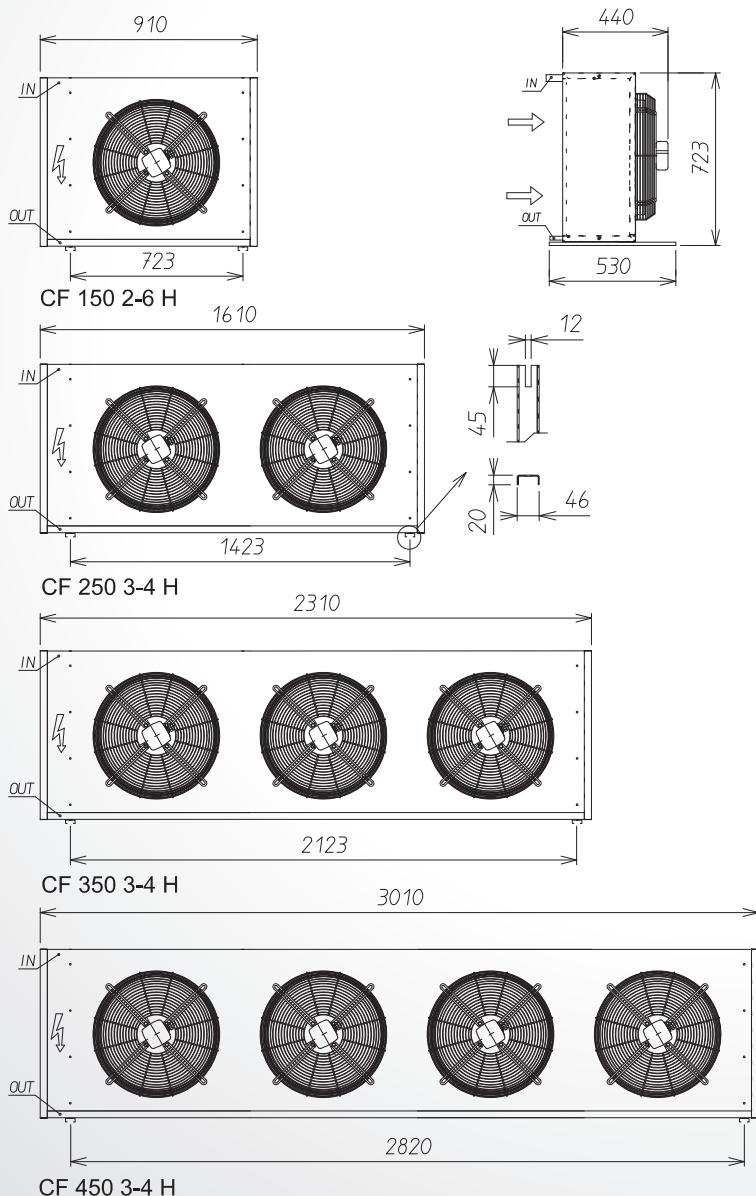
CF 350 S 3	3x500	57	1340	55	21000	DELTA 2,13	4.2	89	8	28	22	118
CF 350 H 3	3x500	47	1000	49	15900	STAR 1,44	2.4	89	8	28	22	118
CF 350 M 3	3x500	43	900	43	13800	DELTA 0,81	2.07	89	8	28	22	118
CF 350 L 3	3x500	34	640	39	9750	STAR 0,57	1.2	89	8	28	22	118

CF 350 S 4	3x500	65	1340	55	19800	DELTA 2,13	4.2	118	10	28	22	132
CF 350 H 4	3x500	53	1000	49	15000	STAR 1,44	2.4	118	10	28	22	132
CF 350 M 4	3x500	48	900	43	12900	DELTA 0,81	2.07	118	10	28	22	132
CF 350 L 4	3x500	39	640	39	8850	STAR 0,57	1.2	118	10	28	22	132

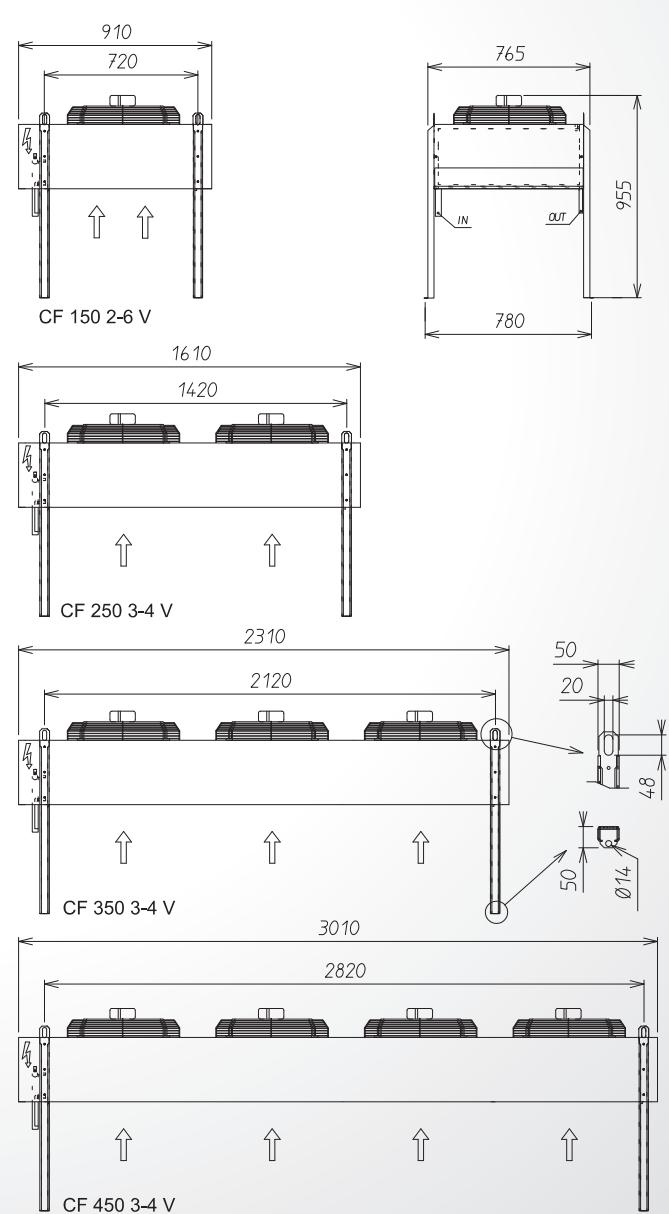
CF 450 S 4	4x500	80	1340	56	26400	DELTA 4,26	5.6	158	14	35	28	180
CF 450 H 4	4x500	66	1000	50	20000	STAR 1,92	3.2	158	14	35	28	180
CF 450 M 4	4x500	60	900	44	17200	DELTA 1,08	2.76	158	14	35	28	180
CF 450 L 4	4x500	49	640	40	11800	STAR 0,76	2.4	158	14	35	28	180



CF50 H



CF50 V





	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.
MODEL	D. 500	R404A			m³/h	kW	A	m²	dm³	mm	mm	kg

CF 150S 2x2	2x500	28	1340	50	14800	DELTA 1,42	2.8	40	4	22x2	16x2	75
CF 150 H 2x2	2x500	24	1000	43	10400	STAR 0,96	1.6	40	4	22x2	16x2	75
CF 150 M 2x2	2x500	22	900	38	11000	DELTA 0,54	1.38	40	4	22x2	16x2	75
CF 150 L 2x2	2x500	18	640	34	6400	STAR 0,38	0.8	40	4	22x2	16x2	75

CF 150S 3x2	2x500	32	1340	50	14000	DELTA 1,42	2.8	60	6	28x2	16x2	85
CF 150 H 3x2	2x500	30	1000	43	10600	STAR 0,96	1.6	60	6	28x2	16x2	85
CF 150 M 3x2	2x500	28	900	38	8200	DELTA 0,54	1.38	60	6	28x2	16x2	85
CF 150 L 3x2	2x500	24	640	34	6500	STAR 0,38	0.8	60	6	28x2	16x2	85

CF 150S 6x2	2x500	48	1340	50	11800	DELTA 1,42	2.8	118	10	28x2	16x2	95
CF 150 H 6x2	2x500	40	1000	43	8900	STAR 0,96	1.6	118	10	28x2	16x2	95
CF 150 M 6x2	2x500	34	900	38	7400	DELTA 0,54	1.38	118	10	28x2	16x2	95
CF 150 L 6x2	2x500	26	640	34	5600	STAR 0,38	0.8	118	10	28x2	16x2	95

CF 250S 3x2	4x500	72	1340	54	28000	DELTA 2,84	5.6	118	10	28x2	22x2	155
CF 250 H 3x2	4x500	62	1000	51	21200	STAR 1,92	3.2	118	10	28x2	22x2	155
CF 250 M 3x2	4x500	56	900	44	18400	DELTA 1,08	2.76	118	10	28x2	22x2	155
CF 250 L 3x2	4x500	44	640	34	13000	STAR 0,76	1.6	118	10	28x2	22x2	155

CF 250S 4x2	4x500	86	1340	54	26400	DELTA 2,84	5.6	158	14	28x2	22x2	175
CF 250 H 4x2	4x500	70	1000	51	20000	STAR 1,92	3.2	158	14	28x2	22x2	175
CF 250 M 4x2	4x500	64	900	44	17200	DELTA 1,08	2.76	158	14	28x2	22x2	175
CF 250 L 4x2	4x500	48	640	34	11800	STAR 0,76	1.6	158	14	28x2	22x2	175

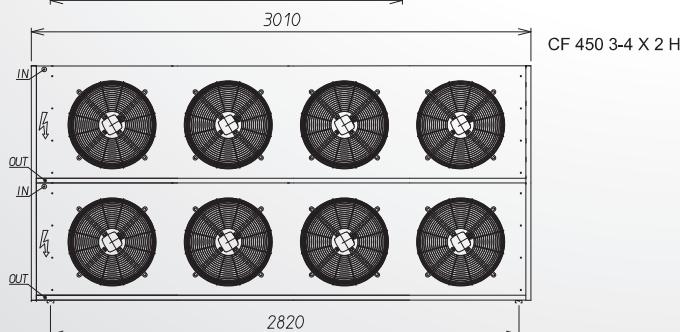
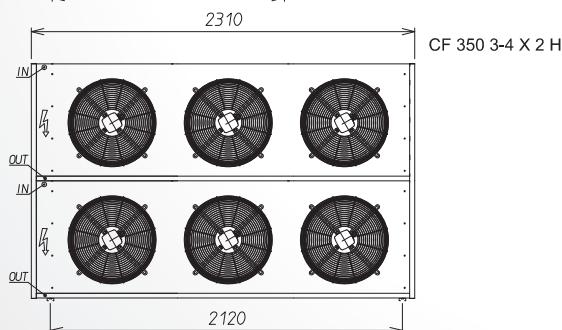
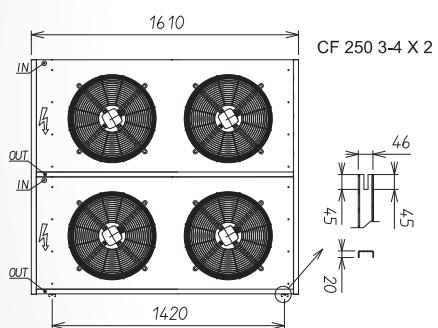
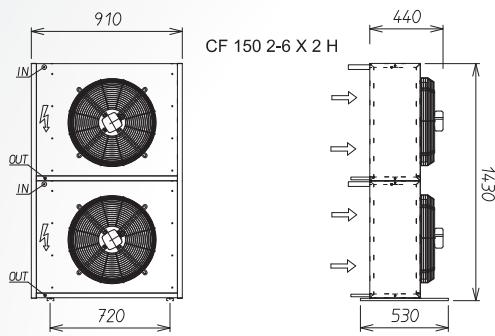
CF 350S 3x2	6x500	114	1340	56	42000	DELTA 4,26	8.4	178	16	28x2	22x2	230
CF 350 H 3x2	6x500	94	1000	53	31800	STAR 2,88	4.8	178	16	28x2	22x2	230
CF 350 M 3x2	6x500	86	900	46	27600	DELTA 1,62	4.14	178	16	28x2	22x2	230
CF 350 L 3x2	6x500	68	640	37	19500	STAR 1,14	2.4	178	16	28x2	22x2	230

CF 350S 4x2	6x500	130	1340	56	39600	DELTA 4,26	8.4	236	20	28x2	22x2	260
CF 350 H 4x2	6x500	106	1000	53	30000	STAR 2,88	4.8	236	20	28x2	22x2	260
CF 350 M 4x2	6x500	96	900	46	25800	DELTA 1,62	4.14	236	20	28x2	22x2	260
CF 350 L 4x2	6x500	78	640	37	17700	STAR 1,14	2.4	236	20	28x2	22x2	260

CF 450S 4x2	8x500	160	1340	58	52800	DELTA 5,68	11.2	316	28	35x2	28x2	350
CF 450 H 4x2	8x500	132	1000	55	40000	STAR 3,84	6.4	316	28	35x2	28x2	350
CF 450 M 4x2	8x500	120	900	48	34400	DELTA 2,16	5.52	316	28	35x2	28x2	350
CF 450 L 4x2	8x500	98	640	40	23600	STAR 1,52	4.8	316	28	35x2	28x2	350

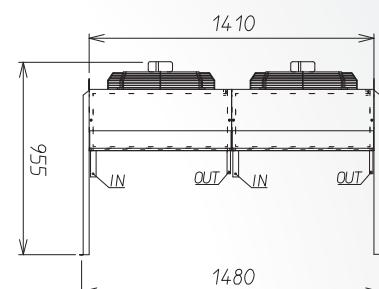
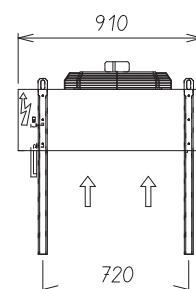


CF50x2 H

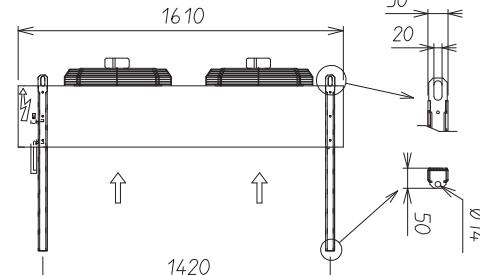


CF50x2 V

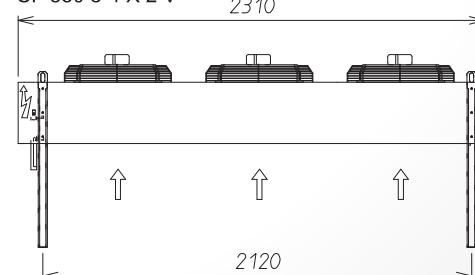
CF 150 2-6 X 2 V



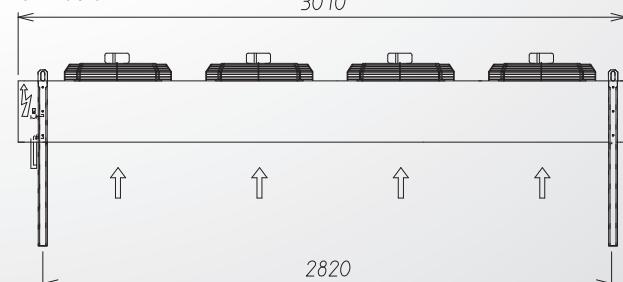
CF 250 3-4 X 2 V



CF 350 3-4 X 2 V



CF 450 3-4 X 2 V



Condensatori remoti serie commerciale

Condenseur à air d.63

Remote air condenders commercial series

Дистанционные конденсаторы коммерческих серий



I condensatori della **serie CF63** sono condensatori remoti adatti per varie applicazioni, dal condizionamento e refrigerazione commerciale a quella industriale.

Mod. CF63 E-F-S-H-M-L 630: condensatore remoto con motoventilatori ø 630mm., 400v/3/50hz., 4/6/8 poli, passo alette mm. 2.1. La sigla E-F-S-H-M-L differenzia le varie velocità del motoventilatore. Tutti i condensatori remoti della serie **CF63** possono avere il flusso d'aria orizzontale "H" o il flusso dell'aria verticale "V". I motoventilatori 400v/3/50hz sono a doppia velocità.



Les condenseurs de la série **CF63** sont condenseurs pour différentes applications, à partir du conditionnement et réfrigération commercial, jusqu'au conditionnement et réfrigération industrielle. **Mod. CF63 E-F-S-H-M-L 630** condenseur avec motoventilateurs ø 630mm, 3phases 400v/3/50hz., 4/6/8 poles écartement ailettes mm. 2,1. La lettre E-F-S-H-M-L indique les différentes vitesses du motoventilateur. Tous les condenseurs de la série **CF63** peuvent avoir le flux de l'air Horizontal "H" ou Vertical "V". Tous les motoventilateurs 400v/3/50hz sont à double vitesse.



The condensers **MOD. CF63** are remote air condensers, recommended for several applications as conditioning and commercial or industrial refrigeration.

MOD. CF63 E-F-S-H-M-L 630: remote condenser with fan motor ø 630mm, 400v/3/50hz 4/6/8 poles, fin spacing mm. 2,1. The letters E-F-S-H-M-L specify the different speeds of the fan motor. It is possible to have the remote condenser **CF63** with the air flow horizontal "H" or air flow vertical "V". All the fan motors 400v/3/50hz are with double speed.



Конденсаторы серии **CF63** - дистанционные конденсаторы, предназначенные для различного применения, начиная от кондиционирования и охлаждения в торговом оборудовании до промышленного использования. **МОД. CF63 E-F-S-H-M-L 630:** дистанционный конденсатор с мотовентиляторами ø 630 мм, 400в/3/50 Гц 4/6/8 полюсными, шаг лопастей 2,1 мм Сокращение E-F-S-H-M-L обозначает разные скорости мотовентилятора. Все дистанционные конденсаторы серии **CF63** предусматривают горизонтальный "H" или вертикальный воздушный поток "V". Мотовентиляторы 400в/3/50 Гц двухскоростные



CAPACITÀ CALCOLATA CON TEMPERATURA AMBIENTE 25°C
E TEMPERATURA DI CONDENSAZIONE 40°C R 404A



CAPACITY CALCULATED WITH ROOM TEMPERATURE 25°C
AND CONDENSING TEMPERATURE 40°C R 404A



	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.
MODEL	D. 630	R404A			m³/h	kW	A	m²	dm³	mm	mm	kg

CF163E-3	1x630	43	1320	50	14800	DELTA 2,63	4.78	70	6	35	22	90
CF163F-3	1x630	41	1050	46	12800	STAR 1,75	2.95	70	6	35	22	90
CF163S-3	1x630	31	890	45	9000	DELTA 0,60	1.2	70	6	35	22	90
CF163H-3	1x630	29	690	38	7500	STAR 0,40	0.68	70	6	35	22	90
CF163M-3	1x630	25	660	36	6500	DELTA 0,33	0.83	70	6	35	22	90
CF163L-3	1x630	24	520	30	5000	STAR 0,19	0.39	70	6	35	22	90

CF163E-4	1x630	52	1320	50	14800	DELTA 2,63	4.78	92	8	35	22	95
CF163F-4	1x630	49	1050	46	12800	STAR 1,75	2.95	92	8	35	22	95
CF163S-4	1x630	37	890	45	9000	DELTA 0,60	1.2	92	8	35	22	95
CF163H-4	1x630	34	690	38	7500	STAR 0,40	0.68	92	8	35	22	95
CF163M-4	1x630	30	660	36	6500	DELTA 0,33	0.83	92	8	35	22	95
CF163L-4	1x630	28	520	30	5000	STAR 0,19	0.39	92	8	35	22	95

CF163E-5	1x630	59	1320	50	14800	DELTA 2,63	4.78	116	10	35	22	100
CF163F-5	1x630	56	1050	46	12800	STAR 1,75	2.95	116	10	35	22	100
CF163S-5	1x630	41	890	45	9000	DELTA 0,60	1.2	116	10	35	22	100
CF163H-5	1x630	39	690	38	7500	STAR 0,40	0.68	116	10	35	22	100
CF163M-5	1x630	33	660	36	6500	DELTA 0,33	0.83	116	10	35	22	100
CF163L-5	1x630	31	520	30	5000	STAR 0,19	0.39	116	10	35	22	100

CF263E-3	2x630	86	1320	53	29600	DELTA 5,26	9.56	140	12	35	22	135
CF263F-3	2x630	82	1050	49	25600	STAR 3,5	5.9	140	12	35	22	135
CF263S-3	2x630	62	890	48	18000	DELTA 1,2	2.4	140	12	35	22	135
CF263H-3	2x630	58	690	41	15000	STAR 0,8	1.36	140	12	35	22	135
CF263M-3	2x630	50	660	39	13000	DELTA 0,66	1.66	140	12	35	22	135
CF263L-3	2x630	48	520	30	10000	STAR 0,38	0.78	140	12	35	22	135

CF263E-4	2x630	102	1320	53	29600	DELTA 5,26	9.56	184	16	35	22	145
CF263F-4	2x630	98	1050	49	25600	STAR 3,5	5.9	184	16	35	22	145
CF263S-4	2x630	74	890	48	18000	DELTA 1,2	2.4	184	16	35	22	145
CF263H-4	2x630	68	690	41	15000	STAR 0,8	1.36	184	16	35	22	145
CF263M-4	2x630	60	660	39	13000	DELTA 0,66	1.66	184	16	35	22	145
CF263L-4	2x630	56	520	30	10000	STAR 0,38	0.78	184	16	35	22	145

CF263E-5	2x630	118	1320	53	29600	DELTA 5,26	9.56	232	20	35	22	155
CF263F-5	2x630	112	1050	49	25600	STAR 3,5	5.9	232	20	35	22	155
CF263S-5	2x630	82	890	48	18000	DELTA 1,2	2.4	232	20	35	22	155
CF263H-5	2x630	78	690	41	15000	STAR 0,8	1.36	232	20	35	22	155
CF263M-5	2x630	66	660	39	13000	DELTA 0,66	1.66	232	20	35	22	155
CF263L-5	2x630	62	520	30	10000	STAR 0,38	0.78	232	20	35	22	155

CF363E-3	3x630	130	1320	54	44400	DELTA 7,89	14.34	210	18	54	35	210
CF363F-3	3x630	123	1050	51	38400	STAR 5,25	8.85	210	18	54	35	210
CF363S-3	3x630	93	890	50	27000	DELTA 1,8	3.6	210	18	54	35	210
CF363H-3	3x630	87	690	43	22500	STAR 1,2	2.04	210	18	54	35	210
CF363M-3	3x630	75	660	41	19500	DELTA 0,99	2.49	210	18	54	35	210
CF363L-3	3x630	72	520	33	15000	STAR 0,57	1.17	210	18	54	35	210

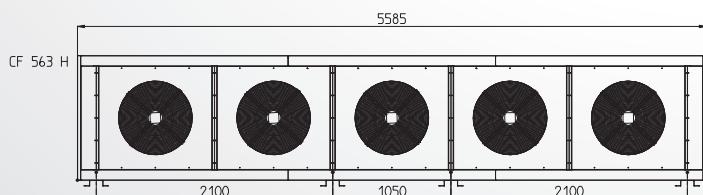
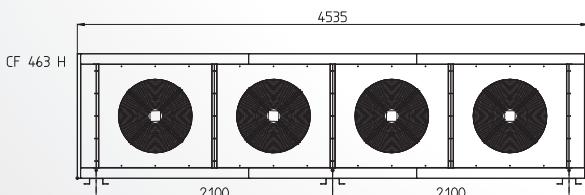
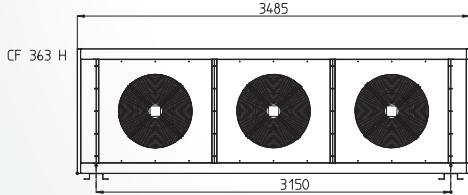
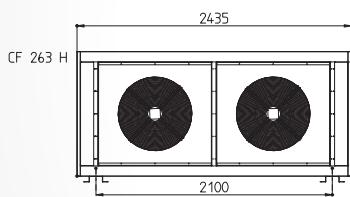
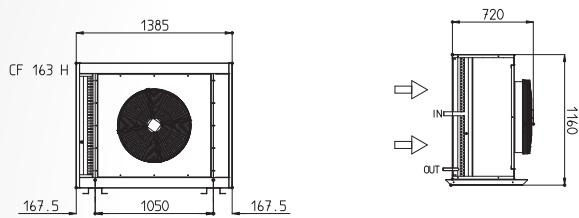
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CF363F-4	3x630	147	1050	51	38400	STAR 5,25	8.85	276	24	54	35	225
CF363S-4	3x630	111	890	50	27000	DELTA 1,8	3.6	276	24	54	35	225
CF363H-4	3x630	102	690	43	22500	STAR 1,2	2.04	276	24	54	35	225
CF363M-4	3x630	90	660	41	19500	DELTA 0,99	2.49	276	24	54	35	225
CF363L-4	3x630	84	520	33	15000	STAR 0,57	1.17	276	24	54	35	225



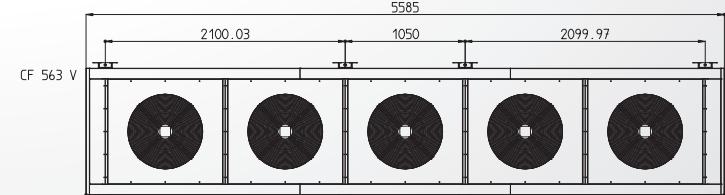
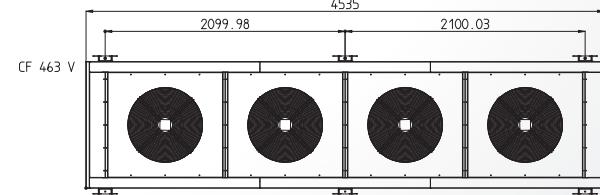
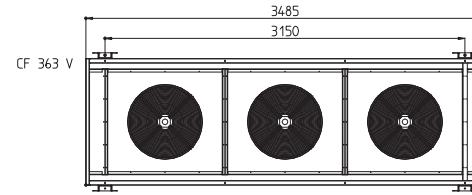
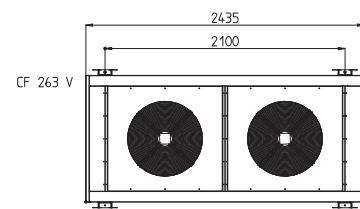
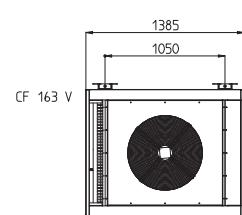
	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.
MODEL	D. 630	R404A			m³/h	kW	A	m²	dm³	mm	mm	kg
CF363E-5	3x630	177	1320	54	44400	DELTA 7,89	14.34	348	30	54	35	240
CF363F-5	3x630	168	1050	51	38400	STAR 5,25	8.85	348	30	54	35	240
CF363S-5	3x630	123	890	50	27000	DELTA 1,8	3.6	348	30	54	35	240
CF363H-5	3x630	117	690	43	22500	STAR 1,2	2.04	348	30	54	35	240
CF363M-5	3x630	99	660	41	19500	DELTA 0,99	2.49	348	30	54	35	240
CF363L-5	3x630	93	520	33	15000	STAR 0,57	1.17	348	30	54	35	240
CF463E-3	4x630	172	1320	55	59200	DELTA 10,52	19.12	280	24	54	35	270
CF463F-3	4x630	164	1050	52	51200	STAR 7	11.8	280	24	54	35	270
CF463S-3	4x630	124	890	51	36000	DELTA 2,4	4.8	280	24	54	35	270
CF463H-3	4x630	116	690	45	30000	STAR 1,6	2.72	280	24	54	35	270
CF463M-3	4x630	100	660	42	26000	DELTA 1,32	3.32	280	24	54	35	270
CF463L-3	4x630	96	520	35	20000	STAR 0,76	1.56	280	24	54	35	270
CF463E-4	4x630	208	1320	55	59200	DELTA 10,52	19.12	368	32	54	35	290
CF463F-4	4x630	196	1050	52	51200	STAR 7	11.8	368	32	54	35	290
CF463S-4	4x630	148	890	51	36000	DELTA 2,4	4.8	368	32	54	35	290
CF463H-4	4x630	136	690	45	30000	STAR 1,6	2.72	368	32	54	35	290
CF463M-4	4x630	120	660	42	26000	DELTA 1,32	3.32	368	32	54	35	290
CF463L-4	4x630	112	520	35	20000	STAR 0,76	1.56	368	32	54	35	290
CF463E-5	4x630	236	1320	55	59200	DELTA 10,52	19.12	464	40	54	35	310
CF463F-5	4x630	224	1050	52	51200	STAR 7	11.8	464	40	54	35	310
CF463S-5	4x630	164	890	51	36000	DELTA 2,4	4.8	464	40	54	35	310
CF463H-5	4x630	156	690	45	30000	STAR 1,6	2.72	464	40	54	35	310
CF463M-5	4x630	132	660	42	26000	DELTA 1,32	3.32	464	40	54	35	310
CF463L-5	4x630	124	520	35	20000	STAR 0,76	1.56	464	40	54	35	310
CF563E-3	5x630	218	1320	57	74000	DELTA 13,15	23.9	350	30	54	35	340
CF563F-3	5x630	205	1050	54	64000	STAR 8,75	14.75	350	30	54	35	340
CF563S-3	5x630	155	890	53	45000	DELTA 3	6	350	30	54	35	340
CF563H-3	5x630	145	690	47	37500	STAR 2	3.43	350	30	54	35	340
CF563M-3	5x630	125	660	44	32500	DELTA 1,65	4.15	350	30	54	35	340
CF563L-3	5x630	120	520	37	25000	STAR 0,95	1.95	350	30	54	35	340
CF563E-4	5x630	260	1320	57	74000	DELTA 13,15	23.9	460	40	54	35	370
CF563F-4	5x630	245	1050	54	64000	STAR 8,75	14.75	460	40	54	35	370
CF563S-4	5x630	185	890	53	45000	DELTA 3	6	460	40	54	35	370
CF563H-4	5x630	170	690	47	37500	STAR 2	3.43	460	40	54	35	370
CF563M-4	5x630	150	660	44	32500	DELTA 1,65	4.15	460	40	54	35	370
CF563L-4	5x630	140	520	37	25000	STAR 0,95	1.95	460	40	54	35	370
CF563E-5	5x630	295	1320	57	74000	DELTA 13,15	23.9	580	50	54	35	400
CF563F-5	5x630	280	1050	54	64000	STAR 8,75	14.75	580	50	54	35	400
CF563S-5	5x630	205	890	53	45000	DELTA 3	6	580	50	54	35	400
CF563H-5	5x630	195	690	47	37500	STAR 2	3.43	580	50	54	35	400
CF563M-5	5x630	165	660	44	32500	DELTA 1,65	4.15	580	50	54	35	400
CF563L-5	5x630	155	520	37	25000	STAR 0,95	1.95	580	50	54	35	400



CF63 H



CF63 V



PIÈCE VERTICALE REGULABLE



Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso	
Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.	
MODEL	D. 630	R404A		m³/h	kW	A	m²	dm³	mm	mm	kg	
CF163E-3x2	2x630	86	1320	53	29600	DELTA 5,26	9.56	140	12	35x2	22x2	180
CF163F-3x2	2x630	82	1050	49	25600	STAR 3,5	5.9	140	12	35x2	22x2	180
CF163S-3x2	2x630	62	890	48	18000	DELTA 1,2	2.4	140	12	35x2	22x2	180
CF163H-3x2	2x630	58	690	41	15000	STAR 0,8	1.36	140	12	35x2	22x2	180
CF163M-3x2	2x630	50	660	39	13000	DELTA 0,66	1.66	140	12	35x2	22x2	180
CF163L-3x2	2x630	48	520	30	10000	STAR 0,38	0.78	140	12	35x2	22x2	180
CF163E-4x2	2x630	104	1320	53	29600	DELTA 5,26	9.56	184	12	35x2	22x2	190
CF163F-4x2	2x630	98	1050	49	25600	STAR 3,5	5.9	184	12	35x2	22x2	190
CF163S-4x2	2x630	74	890	48	18000	DELTA 1,2	2.4	184	12	35x2	22x2	190
CF163H-4x2	2x630	68	690	41	15000	STAR 0,8	1.36	184	12	35x2	22x2	190
CF163M-4x2	2x630	60	660	39	13000	DELTA 0,66	1.66	184	12	35x2	22x2	190
CF163L-4x2	2x630	58	520	30	10000	STAR 0,38	0.78	184	12	35x2	22x2	190
CF163E-5x2	2x630	118	1320	53	29600	DELTA 5,26	9.56	232	12	54x2	35x2	200
CF163F-5x2	2x630	112	1050	49	25600	STAR 3,5	5.9	232	12	54x2	35x2	200
CF163S-5x2	2x630	82	890	48	18000	DELTA 1,2	2.4	232	12	54x2	35x2	200
CF163H-5x2	2x630	78	690	41	15000	STAR 0,8	1.36	232	12	54x2	35x2	200
CF163M-5x2	2x630	66	660	39	13000	DELTA 0,66	1.66	232	12	54x2	35x2	200
CF163L-5x2	2x630	62	520	30	10000	STAR 0,38	0.78	232	12	54x2	35x2	200
CF263E-3x2	4x630	172	1320	55	59200	DELTA 10,52	19.12	280	24	54x2	35x2	270
CF263F-3x2	4x630	164	1050	52	51200	STAR 7	11.8	280	24	54x2	35x2	270
CF263S-3x2	4x630	124	890	51	36000	DELTA 2,4	4.8	280	24	54x2	35x2	270
CF263H-3x2	4x630	116	690	45	30000	STAR 1,6	2.72	280	24	54x2	35x2	270
CF263M-3x2	4x630	100	660	42	26000	DELTA 1,32	3.32	280	24	54x2	35x2	270
CF263L-3x2	4x630	96	520	35	20000	STAR 0,76	1.56	280	24	54x2	35x2	270
CF263E-4x2	4x630	204	1320	55	59200	DELTA 10,52	19.12	368	32	54x2	35x2	290
CF263F-4x2	4x630	196	1050	52	51200	STAR 7	11.8	368	32	54x2	35x2	290
CF263S-4x2	4x630	148	890	51	36000	DELTA 2,4	4.8	368	32	54x2	35x2	290
CF263H-4x2	4x630	136	690	45	30000	STAR 1,6	2.72	368	32	54x2	35x2	290
CF263M-4x2	4x630	120	660	42	26000	DELTA 1,32	3.32	368	32	54x2	35x2	290
CF263L-4x2	4x630	112	520	35	20000	STAR 0,76	1.56	368	32	54x2	35x2	290
CF263E-5x2	4x630	236	1320	55	59200	DELTA 10,52	19.12	464	32	54x2	35x2	310
CF263F-5x2	4x630	224	1050	52	51200	STAR 7	11.8	464	32	54x2	35x2	310
CF263S-5x2	4x630	164	890	51	36000	DELTA 2,4	4.8	464	32	54x2	35x2	310
CF263H-5x2	4x630	156	690	45	30000	STAR 1,6	2.72	464	32	54x2	35x2	310
CF263M-5x2	4x630	132	660	42	26000	DELTA 1,32	3.32	464	32	54x2	35x2	310
CF263L-5x2	4x630	124	520	35	20000	STAR 0,76	1.56	464	32	54x2	35x2	310
CF363E-3x2	6x630	260	1320	57	88800	DELTA 15,78	28.68	420	36	54x2	35x2	420
CF363F-3x2	6x630	246	1050	54	76800	STAR 10,5	17.7	420	36	54x2	35x2	420
CF363S-3x2	6x630	186	890	53	54000	DELTA 3,6	7.2	420	36	54x2	35x2	420
CF363H-3x2	6x630	174	690	47	45000	STAR 2,4	4.08	420	36	54x2	35x2	420
CF363M-3x2	6x630	150	660	44	39000	DELTA 1,98	4.98	420	36	54x2	35x2	420
CF363L-3x2	6x630	144	520	37	30000	STAR 1,140	2.34	420	36	54x2	35x2	420
CF363E-4x2	6x630	316	1320	57	88800	DELTA 15,78	28.68	552	48	54x2	35x2	450
CF363F-4x2	6x630	260	1050	54	76800	STAR 10,5	17.7	552	48	54x2	35x2	450
CF363S-4x2	6x630	222	890	53	54000	DELTA 3,6	7.2	552	48	54x2	35x2	450
CF363H-4x2	6x630	204	690	47	45000	STAR 2,4	4.08	552	48	54x2	35x2	450
CF363M-4x2	6x630	180	660	44	39000	DELTA 1,98	4.98	552	48	54x2	35x2	450
CF363L-4x2	6x630	168	520	37	30000	STAR 1,140	2.34	552	48	54x2	35x2	450



	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.
MODEL	D. 630	R404A			m³/h	kW	A	m²	dm³	mm	mm	kg

CF363E-5x2	6x630	354	1320	57	88800	DELTA 15,78	28.68	696	60	54x2	35x2	480
CF363F-5x2	6x630	336	1050	54	76800	STAR 10,5	17.7	696	60	54x2	35x2	480
CF363S-5x2	6x630	246	890	53	54000	DELTA 3,6	7.2	696	60	54x2	35x2	480
CF363H-5x2	6x630	340	690	47	45000	STAR 2,4	4.08	696	60	54x2	35x2	480
CF363M-5x2	6x630	198	660	44	39000	DELTA 1,98	4.98	696	60	54x2	35x2	480
CF363L-5x2	6x630	186	520	37	30000	STAR 1,140	2.34	696	60	54x2	35x2	480

CF463E-3x2	8x630	344	1320	57	118400	DELTA 21,04	38.24	560	48	54x2	35x2	540
CF463F-3x2	8x630	328	1050	55	102400	STAR 14	23.6	560	48	54x2	35x2	540
CF463S-3x2	8x630	248	890	54	72000	DELTA 4,8	9.6	560	48	54x2	35x2	540
CF463H-3x2	8x630	232	690	47	60000	STAR 3,2	5.44	560	48	54x2	35x2	540
CF463M-3x2	8x630	200	660	44	52000	DELTA 2,64	6.64	560	48	54x2	35x2	540
CF463L-3x2	8x630	192	520	39	40000	STAR 1,52	3.12	560	48	54x2	35x2	540

CF463E-4x2	8x630	416	1320	57	118400	DELTA 21,04	38.24	736	64	54x2	35x2	580
CF463F-4x2	8x630	392	1050	55	102400	STAR 14	23.6	736	64	54x2	35x2	580
CF463S-4x2	8x630	296	890	54	72000	DELTA 4,8	9.6	736	64	54x2	35x2	580
CF463H-4x2	8x630	272	690	47	60000	STAR 3,2	5.44	736	64	54x2	35x2	580
CF463M-4x2	8x630	240	660	44	52000	DELTA 2,64	6.64	736	64	54x2	35x2	580
CF463L-4x2	8x630	224	520	39	40000	STAR 1,52	3.12	736	64	54x2	35x2	580

CF463E-5x2	8x630	472	1320	57	118400	DELTA 21,04	38.24	928	80	54x2	35x2	620
CF463F-5x2	8x630	448	1050	55	102400	STAR 14	23.6	928	80	54x2	35x2	620
CF463S-5x2	8x630	328	890	54	72000	DELTA 4,8	9.6	928	80	54x2	35x2	620
CF463H-5x2	8x630	312	690	47	60000	STAR 3,2	5.44	928	80	54x2	35x2	620
CF463M-5x2	8x630	266	660	44	52000	DELTA 2,64	6.64	928	80	54x2	35x2	620
CF463L-5x2	8x630	248	520	39	40000	STAR 1,52	3.12	928	80	54x2	35x2	620

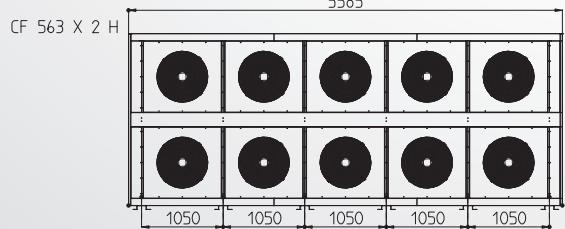
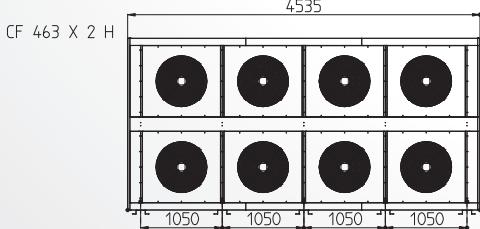
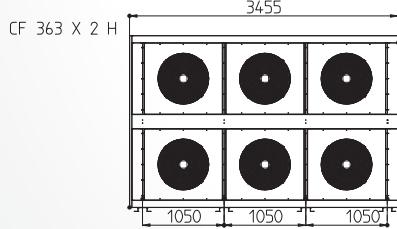
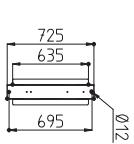
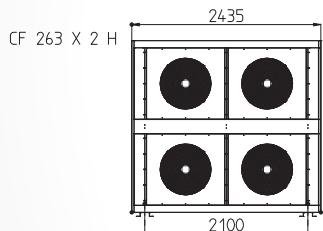
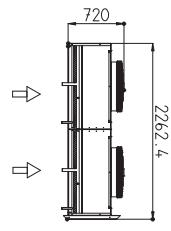
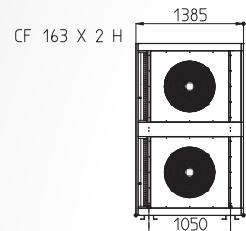
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CF563F-3x2	10x630	410	1050	54	128000	STAR 17,5	29.5	700	60	54x2	35x2	680
CF563S-3x2	10x630	310	890	53	90000	DELTA 6	12	700	60	54x2	35x2	680
CF563H-3x2	10x630	290	690	47	75000	STAR 4	6.96	700	60	54x2	35x2	680
CF563M-3x2	10x630	250	660	44	65000	DELTA 3,3	8.3	700	60	54x2	35x2	680
CF563L-3x2	10x630	240	520	37	50000	STAR 1,9	3.9	700	60	54x2	35x2	680

CF563E-4x2	10x630	520	1320	58	148000	DELTA 26,30	47.8	920	80	54x2	35x2	740
CF563F-4x2	10x630	490	1050	55	128000	STAR 17,5	29.5	920	80	54x2	35x2	740
CF563S-4x2	10x630	370	890	54	90000	DELTA 6	12	920	80	54x2	35x2	740
CF563H-4x2	10x630	340	690	48	75000	STAR 4	6.96	920	80	54x2	35x2	740
CF563M-4x2	10x630	300	660	45	65000	DELTA 3,3	8.3	920	80	54x2	35x2	740
CF563L-4x2	10x630	280	520	38	50000	STAR 1,9	3.9	920	80	54x2	35x2	740

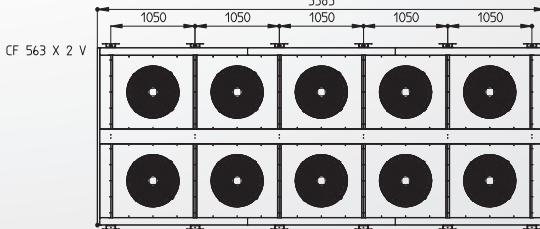
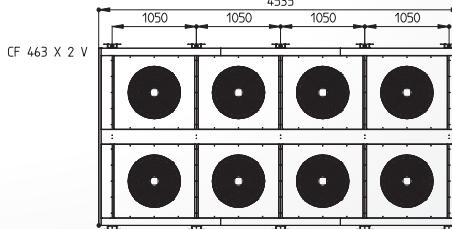
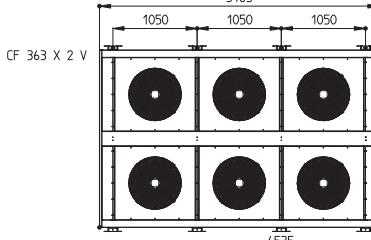
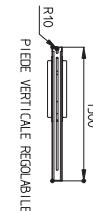
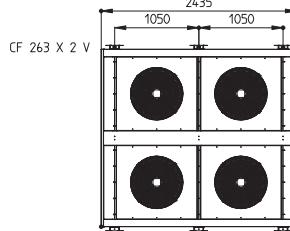
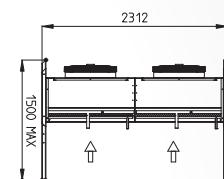
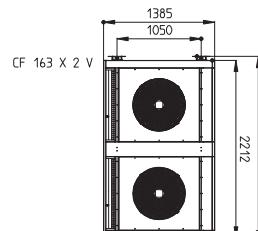
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CF563F-5x2	10x630	560	1050	55	128000	STAR 17,5	29.5	1160	100	54x2	35x2	800
CF563S-5x2	10x630	410	890	54	90000	DELTA 6	12	1160	100	54x2	35x2	800
CF563H-5x2	10x630	390	690	48	75000	STAR 4	6.96	1160	100	54x2	35x2	800
CF563M-5x2	10x630	330	660	45	65000	DELTA 3,3	8.3	1160	100	54x2	35x2	800
CF563L-5x2	10x630	310	520	38	50000	STAR 1,9	3.9	1160	100	54x2	35x2	800



CF63x2 H



CF63x2 V



*Condensatori remoti
Condenseur à air d.80
Remote air condensers
Дистанционные конденсаторы*



I condensatori della **serie CF80** sono condensatori remoti adatti per varie applicazioni, dal condizionamento e refrigerazione commerciale a quella industriale.

Mod. CF80 S-H-M-L 800: condensatore remoto con motoventilatori ø 800mm, 400v/3/50hz., 6/8/12 poli, passo alette mm. 2.1. La sigla S-H-M-L differenzia le varie velocità del motoventilatore. Tutti i condensatori remoti della serie **CF80** possono avere il flusso d'aria orizzontale "H" o il flusso dell'aria verticale "V". I motoventilatori 400v/3/50hz sono a doppia velocità.



Les condenseurs de la série **CF80** sont condenseurs pour différentes applications, à partir du conditionnement et réfrigération commercial, jusqu'au conditionnement et réfrigération industrielle. **Mod. CF80 S-H-M-L 800** condenseur avec motoventilateurs ø 630mm, 3phases 400v/3/50hz., 6/8/12 poles écartement ailettes mm. 2,1. Les lettres **S-H-M-L** indiquent les différentes vitesses des motoventilateurs. Tous les condenseurs de la série **CF80** peuvent avoir le flux de l'air Horizontal "H" ou Vertical "V". Tous les motoventilateurs 400v/3/50hz sont à double vitesse.



The condensers **MOD. CF80** are remote air condensers, recommended for several applications as conditioning and commercial or industrial refrigeration. **MOD. CF80 S-H-M-L-800:** remote condenser with fan motor ø 800mm, 400v/3/50hz., 6/8/12 poles, fin spacing mm. 2,1. The letters S-H-M-L- specify the different speeds of the fan motor. It is possible to have the remote condenser **CF80** with the air flow horizontal "H" or air flow vertical "V". All the fan motors 400v/3/50hz are with double speed.



Конденсаторы **СЕРИИ CF80** - дистанционные конденсаторы, предназначенные для различного применения, начиная от кондиционирования и охлаждения в торговом оборудовании до промышленного использования. **МОД. CF80 S-H-M-L 800:** дистанционный конденсатор с мотовентиляторами ø 800 мм, 400в/3/50 Гц 6/8/12 полюсными, шаг лопастей 2,1 мм. Сокращение S-H-M-L обозначает разные скорости мотовентилятора. Все дистанционные конденсаторы серии **CF80** предусматривают горизонтальный "H" или вертикальный воздушный поток "V". Мотовентиляторы 400в/3/50 Гц двухскоростные.



CAPACITÀ CALCOLATA CON TEMPERATURA AMBIENTE 25°C
E TEMPERATURA DI CONDENSAZIONE 40°C R 404A



CAPACITY CALCULATED WITH ROOM TEMPERATURE 25°C
AND CONDENSING TEMPERATURE 40°C R 404A



Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso	
Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.	
MODEL	D. 800	R404A		m³/h	kW	A	m²	dm³	mm	mm	kg	
CF180S 3	1x800	54	880	54	20000	DELTA 2	4	90	9	42	28	140
CF180H 3	1x800	43	660	48	15500	STAR 1,25	2.3	90	9	42	28	140
CF180M 3	1x800	42	660	46	14500	DELTA 1,05	2.4	90	9	42	28	140
CF180L 3	1x800	33	480	39	10000	STAR 0,77	1.5	90	9	42	28	140
CF180S 4	1x800	66	880	54	18000	DELTA 2	4	119	12	42	28	150
CF180H 4	1x800	55	660	48	13500	STAR 1,25	2.3	119	12	42	28	150
CF180M 4	1x800	53	660	46	12800	DELTA 1,05	2.4	119	12	42	28	150
CF180L 4	1x800	40	480	39	8800	STAR 0,77	1.5	119	12	42	28	150
CF180S 5	1x800	79	880	54	18000	DELTA 2	4	148	14	42	28	160
CF180H 5	1x800	65	660	48	13500	STAR 1,25	2.3	148	14	42	28	160
CF180M 5	1x800	60	660	46	12800	DELTA 1,05	2.4	148	14	42	28	160
CF180L 5	1x800	45	480	39	8800	STAR 0,77	1.5	148	14	42	28	160
CF280S 3	2x800	109	880	55	40000	DELTA 4	8	181	19	42	28	280
CF280H 3	2x800	87	660	49	31000	STAR 2,5	4.6	181	19	42	28	280
CF280M 3	2x800	83	660	47	29000	DELTA 2,1	4.8	181	19	42	28	280
CF280L 3	2x800	67	480	40	20000	STAR 1,54	3	181	19	42	28	280
CF280S 4	2x800	133	880	55	36000	DELTA 4	8	239	25	42	28	300
CF280H 4	2x800	111	660	49	27000	STAR 2,5	4.6	239	25	42	28	300
CF280M 4	2x800	107	660	47	25600	DELTA 2,1	4.8	239	25	42	28	300
CF280L 4	2x800	81	480	40	17600	STAR 1,54	3	239	25	42	28	300
CF280S 5	2x800	159	880	55	36000	DELTA 4	8	297	29	42	28	320
CF280H 5	2x800	131	660	49	27000	STAR 2,5	4.6	297	29	42	28	320
CF280M 5	2x800	121	660	47	25600	DELTA 2,1	4.8	297	29	42	28	320
CF280L 5	2x800	91	480	40	17600	STAR 1,54	3	297	29	42	28	320
CF380S 3	3x800	164	880	56	60000	DELTA 6	12	272	34	54	35	420
CF380H 3	3x800	131	660	50	46500	STAR 3,75	6.9	272	34	54	35	420
CF380M 3	3x800	128	660	48	43500	DELTA 3,15	7.2	272	34	54	35	420
CF380L 3	3x800	101	480	42	30000	STAR 2,31	4.5	272	34	54	35	420
CF380S 4	3x800	200	880	56	54000	DELTA 6	12	359	38	54	35	450
CF380H 4	3x800	167	660	50	40500	STAR 3,75	6.9	359	38	54	35	450
CF380M 4	3x800	161	660	48	38400	DELTA 3,15	7.2	359	38	54	35	450
CF380L 4	3x800	122	480	42	26400	STAR 2,31	4.5	359	38	54	35	450
CF380S 5	3x800	239	880	56	54000	DELTA 6	12	446	44	54	35	480
CF380H 5	3x800	197	660	50	40500	STAR 3,75	6.9	446	44	54	35	480
CF380M 5	3x800	182	660	48	38400	DELTA 3,15	7.2	446	44	54	35	480
CF380L 5	3x800	137	480	42	26400	STAR 2,31	4.5	446	44	54	35	480



	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.
MODEL	D. 800	R404A			m³/h	kW	A	m²	dm³	mm	mm	kg

CF480S 3	4x800	219	880	57	80000	DELTA 8	16	363	39	64	42	560
CF480H 3	4x800	175	660	51	62000	STAR 5	9.2	363	39	64	42	560
CF480M 3	4x800	169	660	49	58000	DELTA 4,2	9.6	363	39	64	42	560
CF480L 3	4x800	135	480	43	40000	STAR 3,08	6	363	39	64	42	560

CF480S 4	4x800	267	880	57	72000	DELTA 8	16	479	51	64	42	600
CF480H 4	4x800	223	660	51	54000	STAR 5	9.2	479	51	64	42	600
CF480M 4	4x800	215	660	49	51200	DELTA 4,2	9.6	479	51	64	42	600
CF480L 4	4x800	163	480	43	35200	STAR 3,08	6	479	51	64	42	600

CF480S 5	4x800	319	880	57	72000	DELTA 8	16	595	59	64	42	640
CF480H 5	4x800	263	660	51	54000	STAR 5	9.2	595	59	64	42	640
CF480M 5	4x800	243	660	49	51200	DELTA 4,2	9.6	595	59	64	42	640
CF480L 5	4x800	183	480	43	35200	STAR 3,08	6	595	59	64	42	640

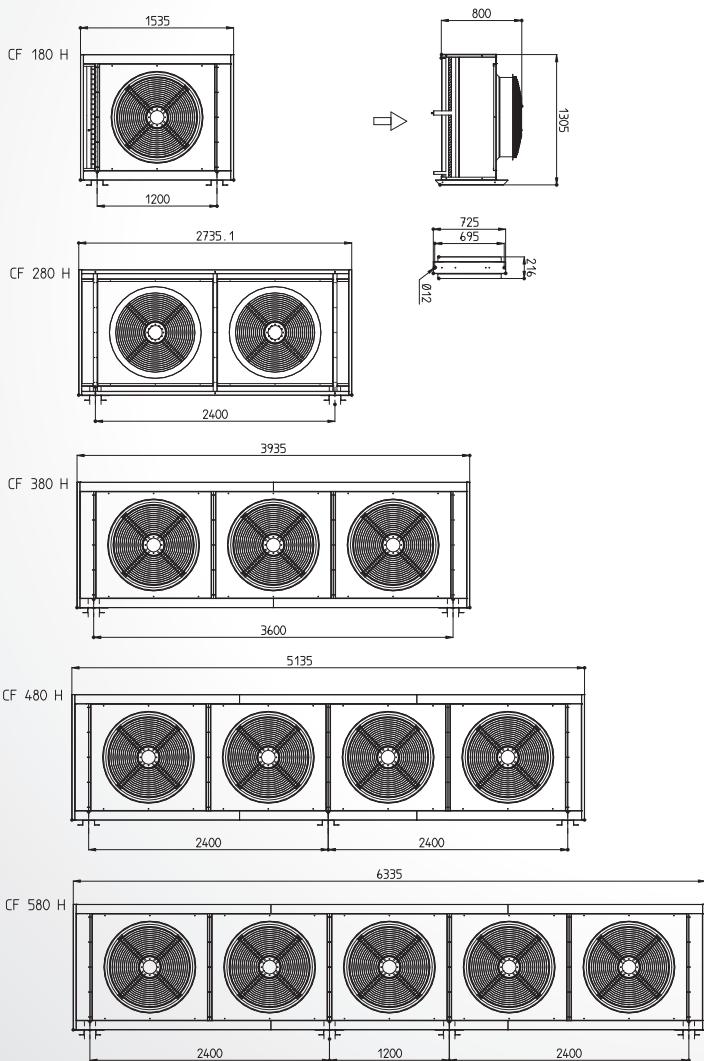
CF580S 3	5x800	273	880	58	100000	DELTA 10	20	454	48	64	42	700
CF580H 3	5x800	218	660	52	77500	STAR 6,25	11.5	454	48	64	42	700
CF580M 3	5x800	213	660	50	72500	DELTA 5,25	12	454	48	64	42	700
CF580L 3	5x800	165	480	44	50000	STAR 3,85	7.5	454	48	64	42	700

CF580S 4	5x800	333	880	58	90000	DELTA 10	20	600	64	64	42	750
CF580H 4	5x800	278	660	52	67500	STAR 6,25	11.5	600	64	64	42	750
CF580M 4	5x800	268	660	50	64000	DELTA 5,25	12	600	64	64	42	750
CF580L 4	5x800	203	480	44	44000	STAR 3,85	7.5	600	64	64	42	750

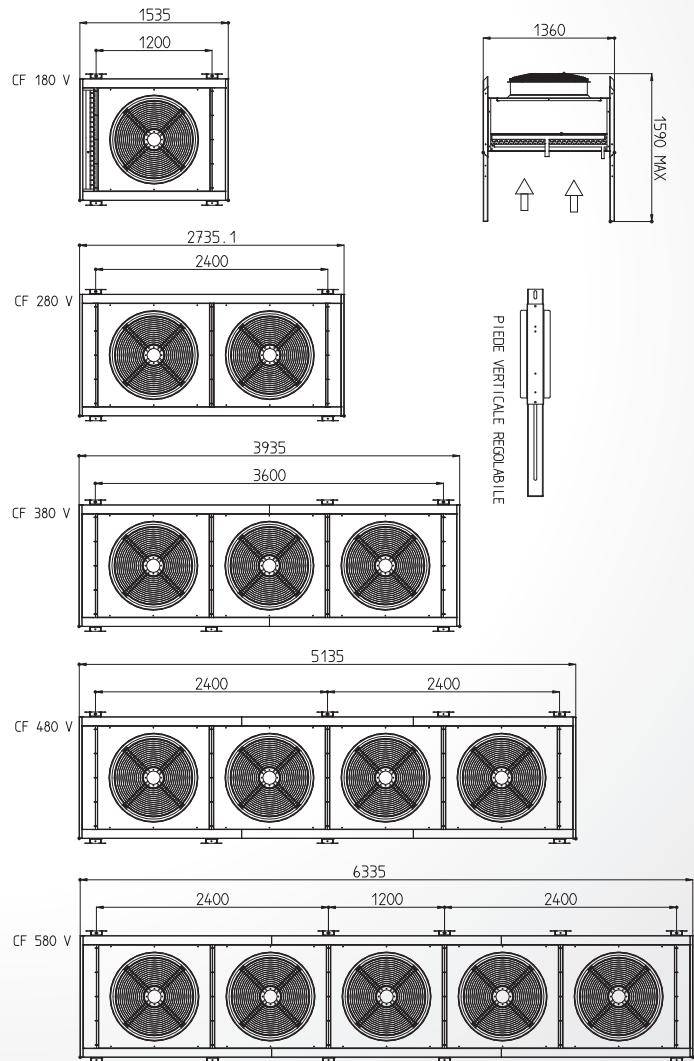
CF580S 5	5x800	398	880	58	90000	DELTA 10	20	744	74	64	42	800
CF580H 5	5x800	328	660	52	67500	STAR 6,25	11.5	744	74	64	42	800
CF580M 5	5x800	303	660	50	64000	DELTA 5,25	12	744	74	64	42	800
CF580L 5	5x800	228	480	44	44000	STAR 3,85	7.5	744	74	64	42	800



CF80 H



CF80 V





	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.
MODEL	D. 800	R404A			m³/h	kW	A	m²	dm³	mm	mm	kg

CF180S 3x2	2x800	108	880	58	40000	DELTA 4	8	180	18	42x2	28x2	280
CF180H 3x2	2x800	86	660	49	31000	STAR 2,50	4.6	180	18	42x2	28x2	280
CF180M 3x2	2x800	84	660	49	29000	DELTA 2,1	4.8	180	18	42x2	28x2	280
CF180L 3x2	2x800	66	480	43	20000	STAR 1,54	3	180	18	42x2	28x2	280

CF180S 4x2	2x800	112	880	58	36000	DELTA 4	8	238	24	42x2	28x2	300
CF180H 4x2	2x800	110	660	49	27000	STAR 2,50	4.6	238	24	42x2	28x2	300
CF180M 4x2	2x800	106	660	49	25600	DELTA 2,1	4.8	238	24	42x2	28x2	300
CF180L 4x2	2x800	80	480	43	17600	STAR 1,54	3	238	24	42x2	28x2	300

CF180S 5x2	2x800	158	880	58	36000	DELTA 4	8	296	28	42x2	28x2	320
CF180H 5x2	2x800	130	660	49	27000	STAR 2,50	4.6	296	28	42x2	28x2	320
CF180M 5x2	2x800	120	660	49	25600	DELTA 2,1	4.8	296	28	42x2	28x2	320
CF180L 5x2	2x800	90	480	43	17600	STAR 1,54	3	296	28	42x2	28x2	320

CF280S 3x2	4x800	218	880	60	80000	DELTA 8	16	362	38	42x2	28x2	560
CF280H 3x2	4x800	174	660	52	62000	STAR 5	9.2	362	38	42x2	28x2	560
CF280M 3x2	4x800	166	660	52	58000	DELTA 4,2	9.6	362	38	42x2	28x2	560
CF280L 3x2	4x800	134	480	45	40000	STAR 3,08	6	362	38	42x2	28x2	560

CF280S 4x2	4x800	266	880	60	72000	DELTA 8	16	478	50	42x2	28x2	600
CF280H 4x2	4x800	222	660	52	54000	STAR 5	9.2	478	50	42x2	28x2	600
CF280M 4x2	4x800	214	660	52	51200	DELTA 4,2	9.6	478	50	42x2	28x2	600
CF280L 4x2	4x800	162	480	45	35200	STAR 3,08	6	478	50	42x2	28x2	600

CF280S 5x2	4x800	318	880	60	72000	DELTA 8	16	594	58	42x2	28x2	640
CF280H 5x2	4x800	262	660	52	54000	STAR 5	9.2	594	58	42x2	28x2	640
CF280M 5x2	4x800	242	660	52	51200	DELTA 4,2	9.6	594	58	42x2	28x2	640
CF280L 5x2	4x800	182	480	45	35200	STAR 3,08	6	594	58	42x2	28x2	640

CF380S 3x2	6x800	328	880	61	120000	DELTA 12	24	544	68	54x2	35x2	840
CF380H 3x2	6x800	262	660	54	93000	STAR 7,5	13.8	544	68	54x2	35x2	840
CF380M 3x2	6x800	256	660	53	87000	DELTA 6,30	14.2	544	68	54x2	35x2	840
CF380L 3x2	6x800	202	480	46	60000	STAR 4,62	9	544	68	54x2	35x2	840

CF380S 4x2	6x800	400	880	61	108000	DELTA 12	24	718	76	54x2	35x2	900
CF380H 4x2	6x800	334	660	54	81000	STAR 7,5	13.8	718	76	54x2	35x2	900
CF380M 4x2	6x800	322	660	53	76800	DELTA 6,30	14.2	718	76	54x2	35x2	900
CF380L 4x2	6x800	244	480	46	52800	STAR 4,62	9	718	76	54x2	35x2	900

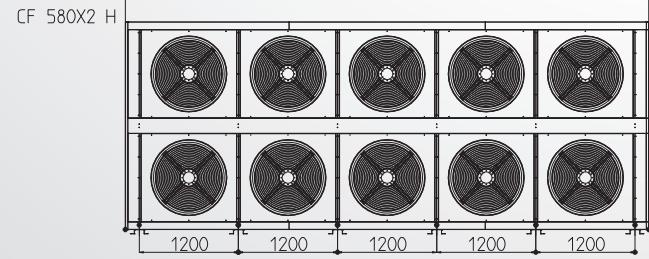
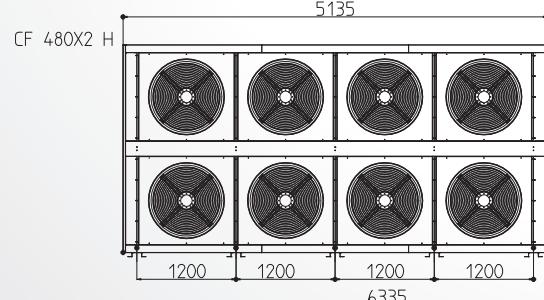
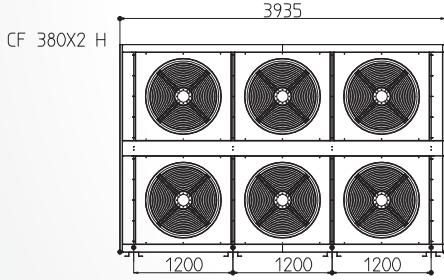
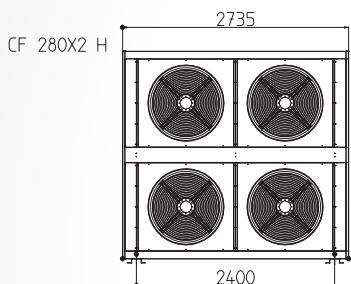
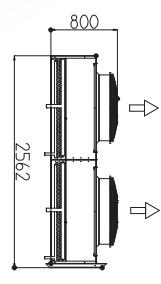
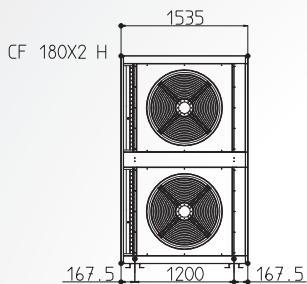
CF380S 5x2	6x800	478	880	61	108000	DELTA 12	24	892	88	54x2	35x2	960
CF380H 5x2	6x800	394	660	54	81000	STAR 7,5	13.8	892	88	54x2	35x2	960
CF380M 5x2	6x800	364	660	53	76800	DELTA 6,30	14.2	892	88	54x2	35x2	960
CF380L 5x2	6x800	274	480	46	52800	STAR 4,62	9	892	88	54x2	35x2	960



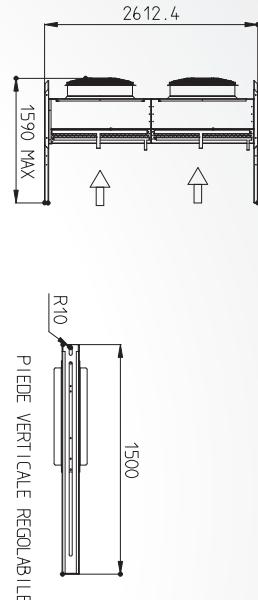
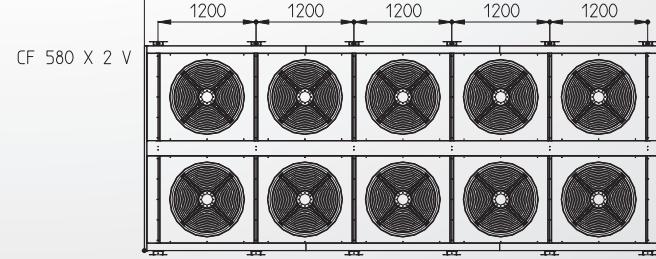
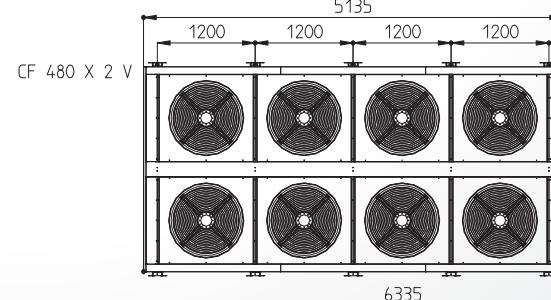
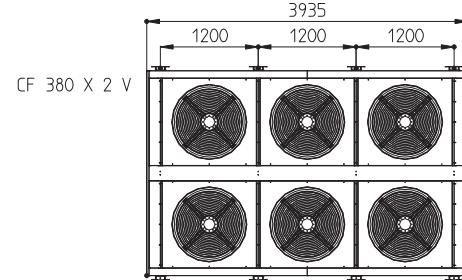
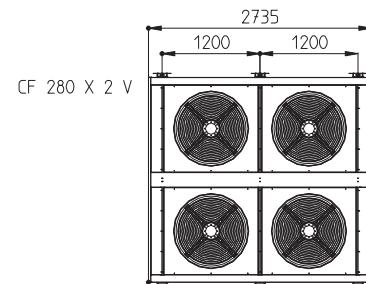
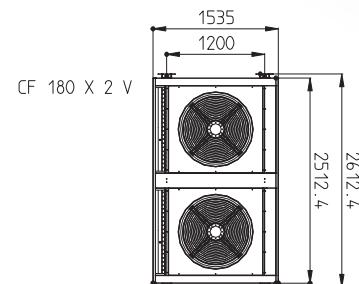
Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso	
Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.	
MODEL	D. 800	R404A		m³/h	kW	A	m²	dm³	mm	mm	kg	
CF480S 3x2	8x800	438	880	62	160000	DELTA 16	32	726	78	64x2	42x2	1120
CF480H 3x2	8x800	350	660	55	124000	STAR 10	18.4	726	78	64x2	42x2	1120
CF480M 3x2	8x800	338	660	54	116000	DELTA 8,4	19.2	726	78	64x2	42x2	1120
CF480L 3x2	8x800	270	480	47	80000	STAR 6,16	12	726	78	64x2	42x2	1120
CF480S 4x2	8x800	534	880	62	144000	DELTA 16	32	958	102	64x2	42x2	1200
CF480H 4x2	8x800	446	660	55	108000	STAR 10	18.4	958	102	64x2	42x2	1200
CF480M 4x2	8x800	430	660	54	102400	DELTA 8,4	19.2	958	102	64x2	42x2	1200
CF480L 4x2	8x800	326	480	47	70400	STAR 6,16	12	958	102	64x2	42x2	1200
CF480S 5x2	8x800	638	880	62	144000	DELTA 16	32	1190	118	64x2	42x2	1280
CF480H 5x2	8x800	526	660	55	108000	STAR 10	18.4	1190	118	64x2	42x2	1280
CF480M 5x2	8x800	486	660	54	102400	DELTA 8,4	19.2	1190	118	64x2	42x2	1280
CF480L 5x2	8x800	366	480	47	70400	STAR 6,16	12	1190	118	64x2	42x2	1280
CF580S 3x2	10x800	546	880	63	200000	DELTA 20	40	908	96	64x2	42x2	1400
CF580H 3x2	10x800	436	660	56	155000	STAR 12,5	23	908	96	64x2	42x2	1400
CF580M 3x2	10x800	426	660	55	145000	DELTA 10,5	24	908	96	64x2	42x2	1400
CF580L 3x2	10x800	330	480	48	100000	STAR 7,70	15	908	96	64x2	42x2	1400
CF580S 4x2	10x800	666	880	63	180000	DELTA 20	40	1200	128	64x2	42x2	1500
CF580H 4x2	10x800	556	660	56	135000	STAR 12,5	23	1200	128	64x2	42x2	1500
CF580M 4x2	10x800	536	660	55	128000	DELTA 10,5	24	1200	128	64x2	42x2	1500
CF580L 4x2	10x800	406	480	48	88000	STAR 7,70	15	1200	128	64x2	42x2	1500
CF580S 5x2	10x800	796	880	63	180000	DELTA 20	40	1488	148	64x2	42x2	1600
CF580H 5x2	10x800	656	660	56	135000	STAR 12,5	23	1488	148	64x2	42x2	1600
CF580M 5x2	10x800	606	660	55	128000	DELTA 10,5	24	1488	148	64x2	42x2	1600
CF580L 5x2	10x800	456	480	48	88000	STAR 7,70	15	1488	148	64x2	42x2	1600



CF80x2 H



CF80x2 V



Condensatori remoti
Condenseur à air
Remote air condensers
Дистанционные конденсаторы



I condensatori della **série CAV** sono condensatori remoti adatti per varie applicazioni, dal condizionamento e refrigerazione commerciale a quella industriale. **Mod. CAV** condensatore remoto con motoventilatori ø 800mm., 400v/3/50hz 6/8/12 poli, passo alette mm. 2.1. La sigla S-H-M-L differenzia le varie velocità del motoventilatore. I motoventilatori 400v/3/50hz sono a doppia velocità.



Les condenseurs mod. **CAV** sont condenseurs indiqués pour different applications, à partir du conditionnement et réfrigération commerciale, jusq'au conditionnement et réfrigération industrielle. Mod. **CAV**: condenseur avec motoventilateurs dia. 800mm., 400v/3/50hz 6/8/12 poles, écartement alettes mm.2,1. Les motoventilateurs 400v/3/50hz sont à double vitesse.



The condensers **MOD. CAV** are remote air condensers, recommended for several applications from conditioning and commercial till industrial refrigeration. **MOD. CAV** remote condenser with fan motor ø 800mm, 400v/3/50hz, 6/8/12 poles ,fin spacing mm. 2,1. The letters S-H-M-L specify the different speeds of the fan motor. All the fan motors 400v/3/50 z are with double speed.



Конденсаторы серии **SERIE CAV** - дистанционные конденсаторы, предназначенные для различного применения, начиная от кондиционирования и охлаждения в торговом оборудовании до промышленного использования. **МОД. САВ** дистанционный конденсатор с мотовентиляторами ø 800 мм, 400в/3/50 Гц 6/8/12 полюсными, шаг лопастей 2,1 мм . Сокращение S-H-M-L обозначает разные скорости мотовентилятора. Мотовентиляторы 400в/3/50 Гц двухскоростные



CAPACITÀ CALCOLATA CON TEMPERATURA AMBIENTE 25°C
E TEMPERATURA DI CONDENSAZIONE 40°C R 404A



CAPACITY CALCULATED WHIT ROOM TEMPERATURE 25°C
AND CONDENSING TEMPERATURE 40°C R 404A



	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	OUT	Net W.
MODEL	D. 800	R404A			m³/h	kW	A	m²	dm³	mm	mm	kg

CAVS 1	2x800	140	880	53	44000	DELTA 4	8	270	40	35x2	28x2	380
CAVH 1	2x800	118	660	46	35000	STAR 2,5	4.6	270	40	35x2	28x2	380
CAVM 1	2x800	111	660	46	34800	DELTA 2,1	4.8	270	40	35x2	28x2	380
CAVL 1	2x800	84	480	43	25800	STAR 1,54	3	270	40	35x2	28x2	380

CAVS 2	2x800	159	880	53	42000	DELTA 4	8	360	53	35x2	28x2	410
CAVH 2	2x800	133	660	46	33000	STAR 2,5	4.6	360	53	35x2	28x2	410
CAVM 2	2x800	127	660	46	32800	DELTA 2,1	4.8	360	53	35x2	28x2	410
CAVL 2	2x800	96	480	43	23800	STAR 1,54	3	360	53	35x2	28x2	410

CAVS 3	3x800	210	880	55	66000	DELTA 6	12	405	59	42x2	28x2	560
CAVH 3	3x800	176	660	48	52500	STAR 3,75	6.9	405	59	42x2	28x2	560
CAVM 3	3x800	168	660	48	52200	DELTA 3,15	7.2	405	59	42x2	28x2	560
CAVL 3	3x800	126	480	45	51600	STAR 2,31	4.5	405	59	42x2	28x2	560

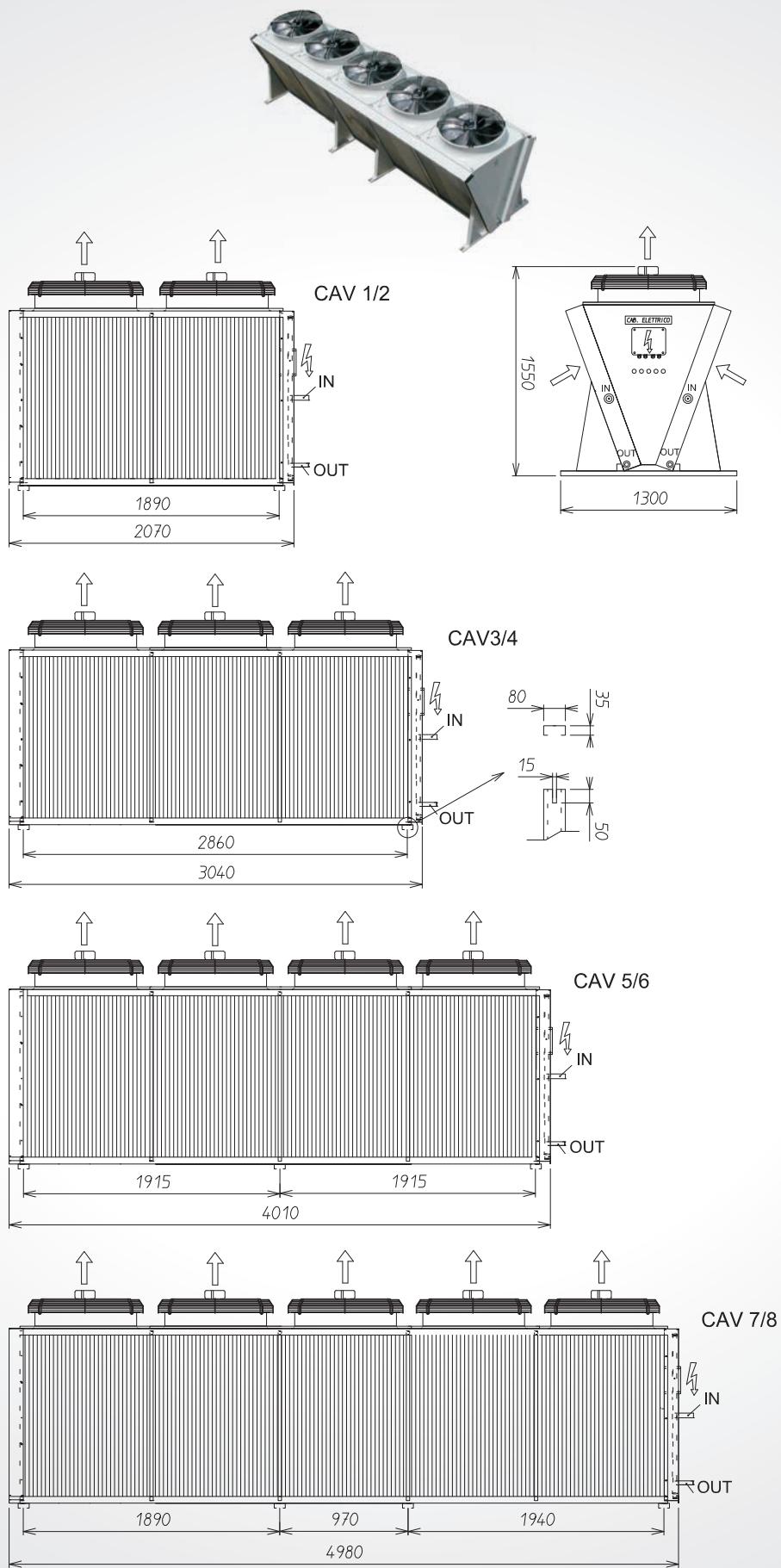
CAVS 4	3x800	235	880	55	63000	DELTA 6	12	540	79	42x2	28x2	600
CAVH 4	3x800	197	660	48	49500	STAR 3,75	6.9	540	79	42x2	28x2	600
CAVM 4	3x800	188	660	48	49200	DELTA 3,15	7.2	540	79	42x2	28x2	600
CAVL 4	3x800	141	480	45	47600	STAR 2,31	4.5	540	79	42x2	28x2	600

CAVS 5	4x800	280	880	56	88000	DELTA 8	16	560	80	54x2	35x2	740
CAVH 5	4x800	234	660	49	70000	STAR 5	9.2	560	80	54x2	35x2	740
CAVM 5	4x800	223	660	49	69600	DELTA 4,2	9.6	560	80	54x2	35x2	740
CAVL 5	4x800	167	480	46	51600	STAR 3,08	6	560	80	54x2	35x2	740

CAVS 6	4x800	317	880	56	84000	DELTA 8	16	720	106	54x2	35x2	800
CAVH 6	4x800	267	660	49	66000	STAR 5	9.2	720	106	54x2	35x2	800
CAVM 6	4x800	253	660	49	65600	DELTA 4,2	9.6	720	106	54x2	35x2	800
CAVL 6	4x800	190	480	46	47600	STAR 3,08	6	720	106	54x2	35x2	800

CAVS 7	5x800	350	880	57	110000	DELTA 10	20	730	99	60x2	42x2	930
CAVH 7	5x800	294	660	50	87500	STAR 6,25	11.5	730	99	60x2	42x2	930
CAVM 7	5x800	279	660	50	87000	DELTA 5,25	12	730	99	60x2	42x2	930
CAVL 7	5x800	210	480	47	64500	STAR 3,85	7.5	730	99	60x2	42x2	930

CAVS 8	5x800	394	880	57	105000	DELTA 10	20	900	132	60x2	42x2	1010
CAVH 8	5x800	331	660	50	82500	STAR 6,25	11.5	900	132	60x2	42x2	1010
CAVM 8	5x800	314	660	50	82000	DELTA 5,25	12	900	132	60x2	42x2	1010
CAVL 8	5x800	235	480	47	59500	STAR 3,85	7.5	900	132	60x2	42x2	1010



*Condensatori remoti
Condenseur à air
Remote air condensers
Дистанционные конденсаторы*



I condensatori della **serie CAVD** sono condensatori remoti adatti per varie applicazioni, dal condizionamento e refrigerazione commerciale a quella industriale. **Mod. CAVD** condensatore remoto con motoventilatori ø 800mm., 400v/3/50hz 6/8/12 poli, passo alette mm. 2.1. La sigla S-H-M-L differenzia le varie velocità del motoventilatore. I motoventilatori 400v/3/50hz sono a doppia velocità.



Les condenseurs mod. **CAVD** sont condenseurs indiqués pour different applications, à partir du conditionnement et réfrigération commerciale, jusq'au conditionnement et réfrigération industrielle. Mod. **CAVD**: condenseur avec motoventilateurs dia. 800mm., 400v/3/50hz 6/8/12 poles, écartement ailettes mm.2,1. Les motoventilateurs 400v/3/50hz sont à double vitesse.



The condensers **MOD. CAVD** are remote air condensers, recommended for several applications from conditioning and commercial till industrial refrigeration. **MOD. CAVD** remote condenser with fan motor ø 800mm, 400v/3/50hz, 6/8/12 poles ,fin spacing mm. 2,1. The letters S-H-M-L specify the different speeds of the fan motor. All the fan motors 400v/3/50 z are with double speed.



Конденсаторы серии **SERIE CAVD** - дистанционные конденсаторы, предназначенные для различного применения, начиная от кондиционирования и охлаждения в торговом оборудовании до промышленного использования. **МОД. CAVD** дистанционный конденсатор с мотовентиляторами ø 800 мм, 400в/3/50 Гц 6/8/12 полюсными, шаг лопастей 2,1 мм . Сокращение S-H-M-L обозначает разные скорости мотовентилятора. Мотовентиляторы 400в/3/50 Гц двухскоростные.



	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN-OUT	Net W.
MODEL	D. 800	R404A			m³/h	kW	A	m²	dm³	mm	kg

x2

CAVD 4-S-2	4x800	240	880	60	80000	DELTA 8	16	395	57	54/42	650
CAVD 4-H-2	4x800	203	660	52	62000	STAR 5	9.2	395	57	54/42	650
CAVD 4-M-2	4x800	200	630	52	58000	DELTA 4,2	9.6	395	57	54/42	650
CAVD 4-L-2	4x800	170	400	45	40000	STAR 3,08	6	395	57	54/42	650

CAVD 4-S-3	4x800	303	880	60	74000	DELTA 8	16	589	85	54/42	740
CAVD 4-H-3	4x800	255	660	52	56000	STAR 5	9.2	589	85	54/42	740
CAVD 4-M-3	4x800	250	630	52	52000	DELTA 4,2	9.6	589	85	54/42	740
CAVD 4-L-3	4x800	211	400	45	36000	STAR 3,08	6	589	85	54/42	740

CAVD 4-S-4	4x800	339	880	60	72000	DELTA 8	16	784	113	54/42	830
CAVD 4-H-4	4x800	285	660	52	54000	STAR 5	9.2	784	113	54/42	830
CAVD 4-M-4	4x800	280	630	52	51200	DELTA 4,2	9.6	784	113	54/42	830
CAVD 4-L-4	4x800	236	400	45	35200	STAR 3,08	6	784	113	54/42	830

CAVD 6-S-2	6x800	360	880	61	120000	DELTA 12	24	593	86	54/42	940
CAVD 6-H-2	6x800	305	660	54	93000	STAR 7,5	13.8	593	86	54/42	940
CAVD 6-M-2	6x800	300	630	53	87000	DELTA 6,3	14.4	593	86	54/42	940
CAVD 6-L-2	6x800	255	400	46	60000	STAR 4,62	9	593	86	54/42	940

CAVD 6-S-3	6x800	455	880	61	111000	DELTA 12	24	884	128	54/42	1070
CAVD 6-H-3	6x800	383	660	54	84000	STAR 7,5	13.8	884	128	54/42	1070
CAVD 6-M-3	6x800	375	630	53	78000	DELTA 6,3	14.4	884	128	54/42	1070
CAVD 6-L-3	6x800	317	400	46	54000	STAR 4,62	9	884	128	54/42	1070

CAVD 6-S-4	6x800	509	880	61	108000	DELTA 12	24	1176	170	54/42	1180
CAVD 6-H-4	6x800	428	660	54	81000	STAR 7,5	13.8	1176	170	54/42	1180
CAVD 6-M-4	6x800	420	630	53	76800	DELTA 6,3	14.4	1176	170	54/42	1180
CAVD 6-L-4	6x800	354	400	46	52800	STAR 4,62	9	1176	170	54/42	1180

CAVD 8-S-2	8x800	480	880	62	160000	DELTA 16	32	790	114	64/54	1230
CAVD 8-H-2	8x800	406	660	55	124000	STAR 10	18.4	790	114	64/54	1230
CAVD 8-M-2	8x800	400	630	54	116000	DELTA 8,4	19.2	790	114	64/54	1230
CAVD 8-L-2	8x800	340	400	47	80000	STAR 6,18	12	790	114	64/54	1230

CAVD 8-S-3	8x800	606	880	62	148000	DELTA 16	32	1178	170	64/54	1410
CAVD 8-H-3	8x800	510	660	55	112000	STAR 10	18.4	1178	170	64/54	1410
CAVD 8-M-3	8x800	500	630	54	104000	DELTA 8,4	19.2	1178	170	64/54	1410
CAVD 8-L-3	8x800	422	400	47	72000	STAR 6,18	12	1178	170	64/54	1410

CAVD 8-S-4	8x800	678	880	62	144000	DELTA 16	32	1568	226	64/54	1580
CAVD 8-H-4	8x800	570	660	55	108000	STAR 10	18.4	1568	226	64/54	1580
CAVD 8-M-4	8x800	560	630	54	102400	DELTA 8,4	19.2	1568	226	64/54	1580
CAVD 8-L-4	8x800	472	400	47	70400	STAR 6,18	12	1568	226	64/54	1580

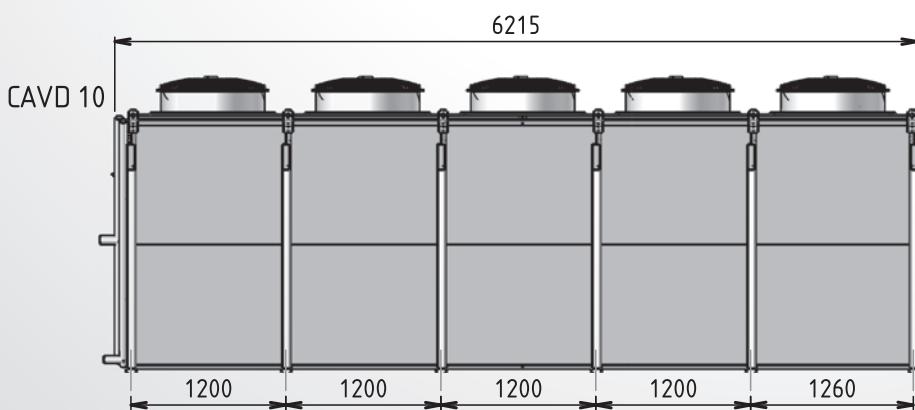
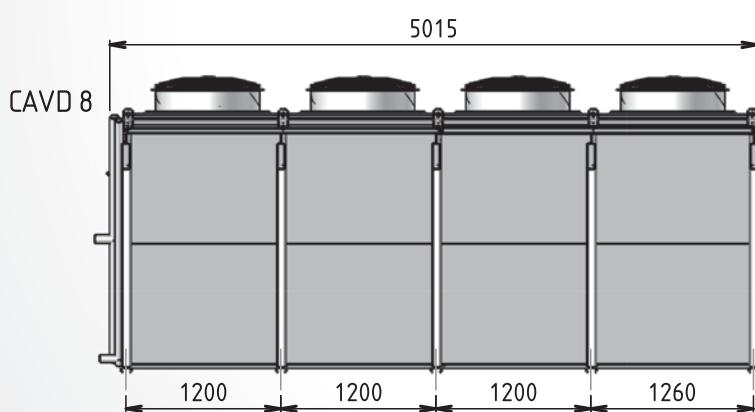
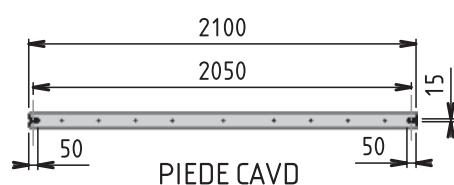
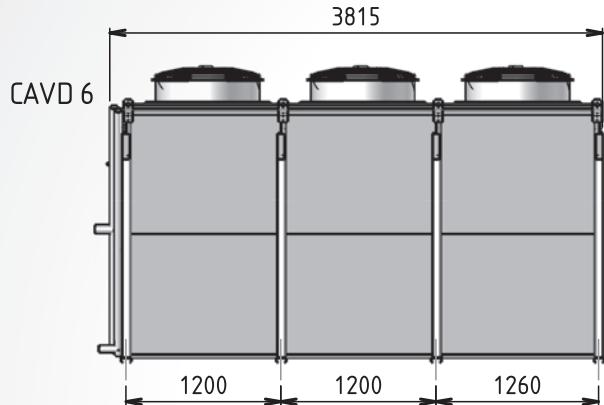
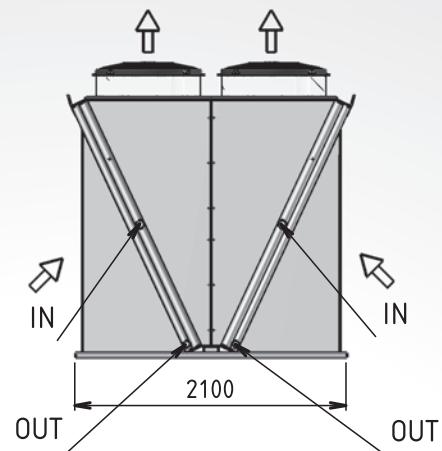
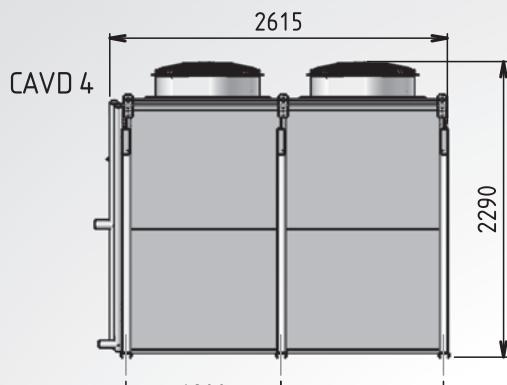


	Motori	DT=15	RPM	Ipa 10	Aria	Consumo	400V	Superfi.	Vol. int.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	Surface	Int. Vol.	IN	Net W.
MODEL	D. 800	R404A			m³/h	kW	A	m²	dm³	mm	kg

CAVD 10-S-2	10x800	600	880	63	200000	DELTA 20	40	988	143	64/54	1540
CAVD 10-H-2	10x800	508	660	56	155000	STAR 12,5	23	988	143	64/54	1540
CAVD 10-M-2	10x800	500	630	55	145000	DELTA 10,5	24	988	143	64/54	1540
CAVD 10-L-2	10x800	425	400	48	100000	STAR 7,7	15	988	143	64/54	1540

CAVD 10-S-3	10x800	758	880	63	185000	DELTA 20	40	1473	213	64/54	1750
CAVD 10-H-3	10x800	638	660	56	140000	STAR 12,5	23	1473	213	64/54	1750
CAVD 10-M-3	10x800	625	630	55	130000	DELTA 10,5	24	1473	213	64/54	1750
CAVD 10-L-3	10x800	528	400	48	90000	STAR 7,7	15	1473	213	64/54	1750

CAVD 10-S-4	10x800	848	880	63	180000	DELTA 20	40	1960	283	64/54	1950
CAVD 10-H-4	10x800	712	660	56	135000	STAR 12,5	23	1960	283	64/54	1950
CAVD 10-M-4	10x800	700	630	55	128000	DELTA 10,5	24	1960	283	64/54	1950
CAVD 10-L-4	10x800	590	400	48	88000	STAR 7,7	15	1960	283	64/54	1950



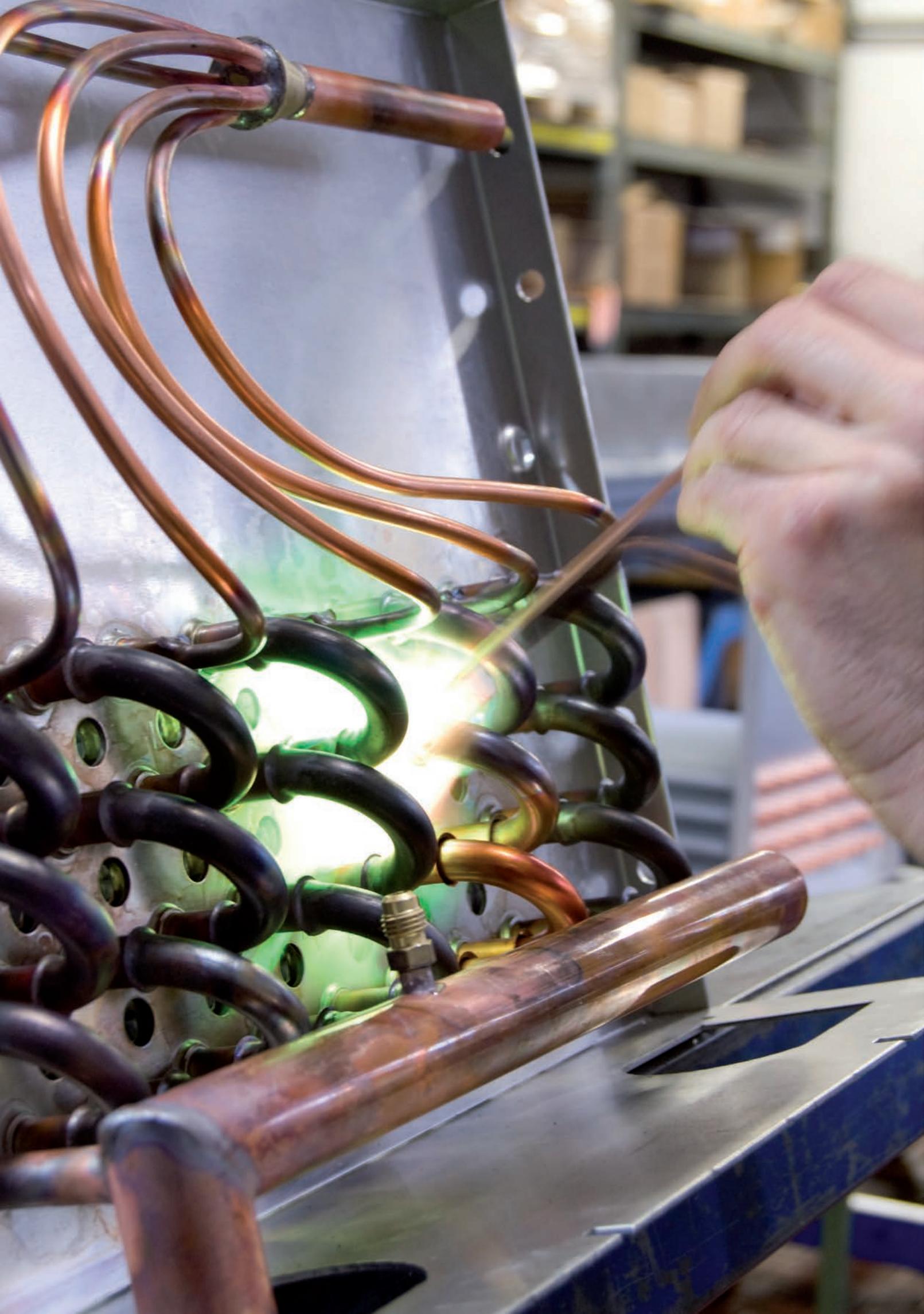


Tabella selezione raffreddatori di liquido / Dry cooler selection



Le potenze dei raffreddatori di liquido sono conformi alle normative ENV 1048.

Fluido refrigerante : glicole etilenico 34%

Temperatura ambiente: 25°C

Temperatura entrata fluido refrigerante: 40°C

Temperatura uscita fluido refrigerante: 35°C



Dry Cooler performances are tested in accordance with ENV 1048.

Refrigerant Fluid : ethylen glycol 34%

Room temperature : 25°C

Inlet temperature refrigerant fluid: 40°C

Outlet temperature refrigerant fluid: 35°C

Ta (°C)	10	25	40	
TGe/TGu (°C)	25/20	40/35	55/50	
Ft	34% Glycol	1,00	1,00	1,01
0% Glycol	0,93	0,95	0,97	

Ta (°C)	10	25	40	
TGe/TGu (°C)	25/20	40/35	55/50	
Ft	34% Glycol	1,00	1,00	1,01
0% Glycol	0,93	0,95	0,97	

D.Tg/D.t	0,15	0,20	0,25	0,30	0,33	0,35	0,40	0,45	0,50
Fc	0,90	0,92	0,94	0,97	1,00	1,01	1,05	1,10	1,15
M.	0	600	800	1000	1200	1400	1600	1800	
Fa	1	1,042	1,058	1,074	1,090	1,107	1,124	1,142	

Ta = Temperatura di entrata aria.

TG = Differenza tra la temperatura dell'aria in entrata e la temperatura del fluido refrigerante in entrata.

D.t. = Differenza tra la temperatura dell'aria in entrata e la temperatura del fluido refrigerante in uscita.

Ft = Fattore temperatura ambiente.

Fc = Fattore differenze temperature.

Fa = Fattore altitudine.

M = Altitudine

Ta = Inlet Air Temperature.

TG = Difference between air inlet temperature and the inlet temperature of the fluid refrigerant

D.t. = difference between the air inlet temperature and the exit temperature of the refrigerant fluid.

Ft = Room temperature Factor.

Fc = Different temperatures Factor.

Fa = Altitude Factor.

M = Altitude

Esempio di selezione:

(Pr) Potenza raffreddatore di liquido richiesta

Selection Example:

(Pr) Requested Capacity Dry Cooler

$$Pr = Pr \times 15Dt \times FT \times Fc \times Fa = 160 \times 1,00 \times 1,00 \times 1,058 = 169,3 \text{ KW} = \text{DCM 380S 4}$$

DCF 50

Raffreddatori di liquido

Aero Refrigerant

Dry coolers

Сухие градирни



I raffreddatori di liquido della **serie DCF50** sono adatti per varie applicazioni, dal condizionamento alla refrigerazione commerciale e industriale. **Mod. DCF50 S-H-M-L**: con motoventilatori ø 500mm, 400v/3/50hz, 4/6 poli, passo alette mm. 2.1. La sigla S-H-M-L differenzia le varie velocità del motoventilatore. Tutti i raffreddatori di liquido della serie **DCF50** possono avere il flusso d'aria orizzontale "H" o il flusso dell'aria verticale "V". I motoventilatori 400v/3/50hz sono a doppia velocità.



AERO REFRIGERANTS de la série **DCF50** sont condenseurs pour different applications, à partir du conditionnement et réfrigération commercial, jusqu'au conditionnement et réfrigération industrielle. **Mod. DCF50 S-H-M-L** : avec motoventilateurs ø 500mm, 3phases 400v/3/50hz, 4/6 poles écartement ailettes mm. 2,1. La lettre S-H-M-L indique les different vitesses du motoventilateur. Tous les aero refrigerants de la serie **DCF50** peuvent avoir le flux de l'air Horizontal "H" ou Vertical "V". Tous les motoventilateurs 400v/3/50hz sont à double vitesse.



The Dry Coolers **MOD. DCF50** are, recommended for several applications as conditioning and commercial or industrial refrigeration. **Mod. DCF50 S-H-M-L**: with fan motor ø 500mm, 400v/3/50hz 4/6 poles, fin spacing mm. 2,1. The letters S-H-M-L- specify the different speeds of the fan motor. It is possible to have the dry coolers **DCF50** with the air flow horizontal "H" or air flow vertical "V". All the fan motors 400v/3/50hz are with double speed.



SERIE DCF50 , СУХИЕ ГРАДИНЫ предназначенные для различного применения, начиная от кондиционирования и охлаждения в торговом оборудовании до промышленного использования. **МОД. DCF50 S-H-M-L**: дистанционный конденсатор с мотовентиляторами ø 500 мм, 400в/3/50 Гц 4/6 полюсными, шаг лопастей 2,1 мм Сокращение S-H-M-L обозначает разные скорости мотовентилятора. Все дистанционные конденсаторы серии **DCF50** предусматривают горизонтальный "H" или вертикальный воздушный поток "V". Мотовентиляторы 400в/3/50 Гц двухскоростные



Capacità calcolata con Glicole etilenico 34%

Temperatura ingresso 40°C

Temperatura uscita 35°C

Temperatura aria 25°C



Capacity calculated whit Ethylen Glicol 34%

Temperature in 40°C

Temperature out 35°C

Temperature air 25°C



Motori	DT=15	RPM	Ipa 10m	Aria	Consumo	400V	fluid	fluid	Superf.	Vol.int.	Refrig.	Refrig.	Peso
Motors	KW		db	Air	Consumption	3ph 50hz	flow	flow	Surfa.	Int.Vol.	IN	OUT	Net W.
MODEL	D. 500	Glicol 34%		m³/h	kW	A	m³/h	BAR	m²	dm³	inch	inch	kg

DCF150S 3	1x500	20	1340	52	8500	DELTA 0,71	1.4	3.2	0.49	29	4.1	1"	1"	40
DCF150H 3	1x500	17	1000	45	8100	STAR 0,48	0.8	2.7	0.37	29	4.1	1"	1"	40
DCF150M 3	1x500	15	900	40	7675	DELTA 0,27	0.69	2.4	0.31	29	4.1	1"	1"	40
DCF150L 3	1x500	11	640	36	3600	STAR 0,19	0.4	2	0.22	29	4.1	1"	1"	40

DCF150S 5	1x500	25	1340	52	8100	DELTA 0,71	1.4	4.5	0.49	47	6.8	1"	1"	45
DCF150H 5	1x500	22	1000	45	5300	STAR 0,48	0.8	3.3	0.37	47	6.8	1"	1"	45
DCF150M 5	1x500	19	900	40	4600	DELTA 0,27	0.69	3	0.31	47	6.8	1"	1"	45
DCF150L 5	1x500	14	640	36	3250	STAR 0,19	0.4	2.3	0.22	47	6.8	1"	1"	45

DCF250S 3	2x500	39	1340	55	17100	DELTA 1,42	2.8	6.6	0.49	57	8.2	1"1/4	1"1/4	79
DCF250H 3	2x500	33	1000	47	10600	STAR 0,96	1.6	5.6	0.37	57	8.2	1"1/4	1"1/4	79
DCF250M 3	2x500	30	900	42	9200	DELTA 0,54	1.38	5.1	0.31	57	8.2	1"1/4	1"1/4	79
DCF250L 3	2x500	23	640	38	6500	STAR 0,38	0.8	4.1	0.22	57	8.2	1"1/4	1"1/4	79

DCF250S 5	2x500	53	1340	55	16200	DELTA 1,42	2.8	8.6	0.49	95	13.6	1"1/2	1"1/2	89
DCF250H 5	2x500	43	1000	47	10000	STAR 0,96	1.6	7	0.37	95	13.6	1"1/2	1"1/2	89
DCF250M 5	2x500	39	900	42	8600	DELTA 0,54	1.38	6.3	0.31	95	13.6	1"1/2	1"1/2	89
DCF250L 5	2x500	29	640	38	5900	STAR 0,38	0.8	4.8	0.22	95	13.6	1"1/2	1"1/2	89

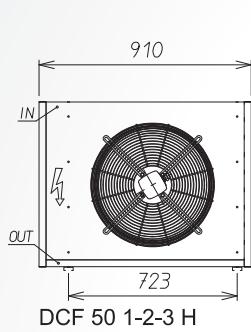
DCF350S 3	3x500	58	1340	57	25650	DELTA 2,13	4.2	10.1	0.49	85	12.2	2"	2"	118
DCF350H 3	3x500	50	1000	49	15900	STAR 1,44	2.4	8.5	0.37	85	12.2	2"	2"	118
DCF350M 3	3x500	45	900	43	13800	DELTA 0,81	2.07	7.8	0.31	85	12.2	2"	2"	118
DCF350L 3	3x500	35	640	39	9750	STAR 0,57	1.2	6.2	0.22	85	12.2	2"	2"	118

DCF350S 5	3x500	79	1340	57	23025	DELTA 2,13	4.2	13.1	0.49	142	20.4	2"	2"	132
DCF350H 5	3x500	65	1000	49	15000	STAR 1,44	2.4	10.6	0.37	142	20.4	2"	2"	132
DCF350M 5	3x500	53	900	43	12900	DELTA 0,81	2.07	9.7	0.31	142	20.4	2"	2"	132
DCF350L 5	3x500	41	640	39	8850	STAR 0,57	1.2	7.3	0.22	142	20.4	2"	2"	132

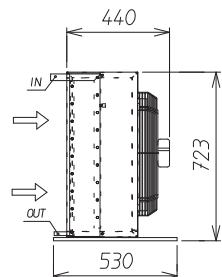
DCF450S 3	4x500	94	1340	58	32400	DELTA 2,84	5.6	13.5	0.49	151	21.8	2"	2"	175
DCF450H 3	4x500	66	1000	49	15000	STAR 1,92	3.2	11.4	0.37	151	21.8	2"	2"	175
DCF450M 3	4x500	60	900	43	12900	DELTA 1,08	2.76	10.4	0.31	151	21.8	2"	2"	175
DCF450L 3	4x500	47	640	39	8850	STAR 0,76	1.60	8.3	0.22	151	21.8	2"	2"	175

DCF450S 5	4x500	101	1340	58	30700	DELTA 2,84	5.6	17.7	0.49	190	27.2	2"	2"	185
DCF450H 5	4x500	85	1000	49	15000	STAR 1,92	3.2	14.3	0.37	190	27.2	2"	2"	185
DCF450M 5	4x500	78	900	43	12900	DELTA 1,08	2.76	13.1	0.31	190	27.2	2"	2"	185
DCF450L 5	4x500	60	640	39	8850	STAR 0,76	1.60	11.3	0.22	190	27.2	2"	2"	185

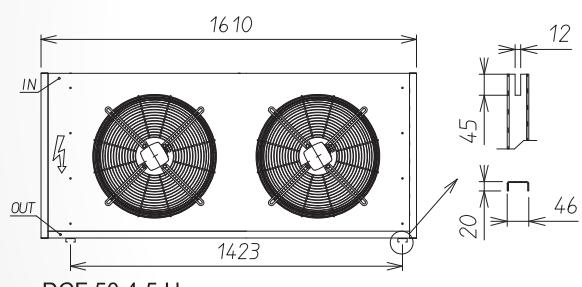
DCF 50



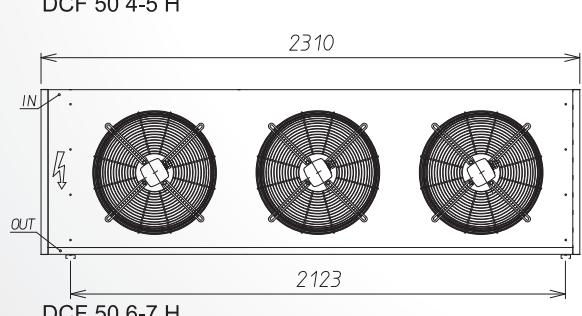
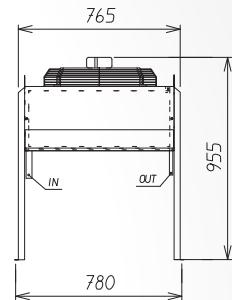
DCF 50 H



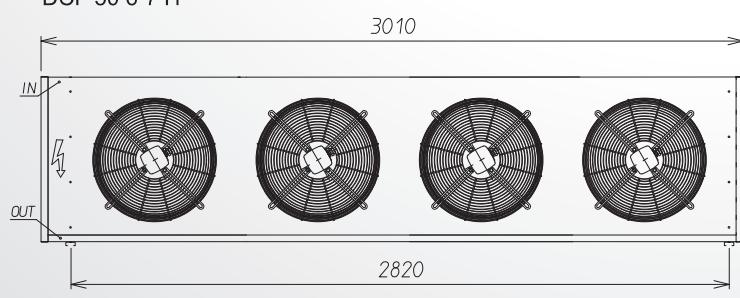
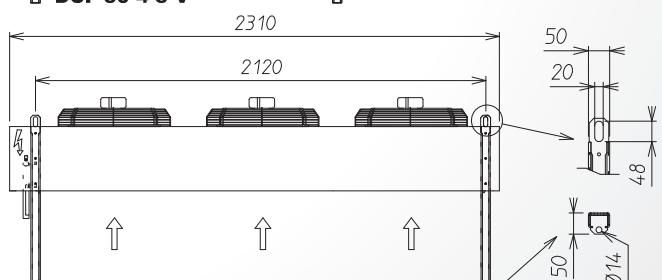
DCF 50 V



DCF 50 4-5 V



DCF 50 4-5 V



Raffreddatori di liquido
Aero Refrigerant
Dry coolers
Сухие градирни



I raffreddatori di liquido della **serie DCF63** sono adatti per varie applicazioni, dal condizionamento alla refrigerazione commerciale e industriale. **Mod. DCF63 E-F-S-H-M-L**: con motoventilatori ø 630mm., 400v/3/50hz., 4/6/8 poli, passo alette mm. 2.1. La sigla E-F-S-H-M-L differenzia le varie velocità del motoventilatore. Tutti i raffreddatori di liquido della serie **DCF63** possono avere il flusso d'aria orizzontale "H" o il flusso dell'aria verticale "V". I motoventilatori 400v/3/50hz sono a doppia velocità.



AERO REFRIGERANTS de la série **DCF63** sont condenseurs pour different applications, à partir du conditionnement et réfrigération commercial, jusqu'au conditionnement et réfrigération industrielle. **Mod. Mod. DCF63 E-F-S-H-M-L** : avec motoventileurs ø 630mm, 3phases 400v/3/50hz, 4/6/8 poles écartement ailettes mm.2,1. La lettre E-F-S-H-M-L indique les different vitesses du motoventilateur. Tous les aero refrigerants de la serie **DCF63** peuvent avoir le flux de l'air Horizontal "H" ou Vertical "V" . Tous les motoventileurs 400v/3/50hz sont à double vitesse.



The Dry Coolers **MOD. DCF63** are, recommended for several applications as conditioning and commercial or industrial refrigeration. **Mod. DCF63 E-F-S-H-M-L**: with fan motor ø 630mm, 400v/3/50hz 4/6/8 poles, fin spacing mm. 2,1. The letters E-F-S-H-M-L- specify the different speeds of the fan motor. It is possible to have the dry coolers **DCF63** with the air flow horizontal "H" or air flow vertical "V". All the fan motors 400v/3/50hz are with double speed.



SERIE DCF63, СУХИЕ ГРАДИРНИ предназначенные для различного применения, начиная от кондиционирования и охлаждения в торговом оборудовании до промышленного использования. **МОД. DCF63 Mod. DCF63 E-F-S-H-M-L**: дистанционный конденсатор с мотовентиляторами ø 630 мм, 400в/3/50 Гц 4/6/8 полюсными, шаг лопастей 2,1 мм Сокращение E-F-S-H-M-L обозначает разные скорости мотовентилятора. Все дистанционные конденсаторы серии **DCF63** предусматривают горизонтальный "H" или вертикальный воздушный поток "V". Мотовентиляторы 400в/3/50 Гц двухскоростные.

DCF 63



	Motori	DT=15	RPM	Ipa 10m	Aria	Consumo	400V	fluid	fluid	Superf.	Vol.int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	flow	flow	Surfa.	Int.Vol.	IN	OUT	Net W.
MODEL	D. 630	Glicol 34%			m³/h	kW	A	m³/h	BAR	m²	dm³	inch	inch	kg

DCF163E 3	1x630	42	1320	50	14800	DELTA 2,63	4.78	7.7	0.61	69	9.9	1"	1"	90
DCF163F 3	1x630	36	1050	46	12800	STAR 1,75	2.95	6.6	0.59	69	9.9	1"	1"	90
DCF163S 3	1x630	29	890	45	9000	DELTA 0,60	1.2	4.9	0.58	69	9.9	1"	1"	90
DCF163H 3	1x630	25	690	38	7500	STAR 0,40	0.68	4.1	0.57	69	9.9	1"	1"	90
DCF163M 3	1x630	21	660	36	6500	DELTA 0,33	0.83	3.7	0.56	69	9.9	1"	1"	90
DCF163L 3	1x630	18	520	30	5000	STAR 0,19	0.39	3	0.46	69	9.9	1"	1"	90

DCF163E 4	1x630	49	1320	50	14800	DELTA 2,63	4.78	9.7	0.61	93	13.3	1"	1"	95
DCF163F 4	1x630	44	1050	46	12800	STAR 1,75	2.95	8.1	0.59	93	13.3	1"	1"	95
DCF163S 4	1x630	35	890	45	9000	DELTA 0,60	1.2	6	0.58	93	13.3	1"	1"	95
DCF163H 4	1x630	30	690	38	7500	STAR 0,40	0.68	4.9	0.57	93	13.3	1"	1"	95
DCF163M 4	1x630	26	660	36	6500	DELTA 0,33	0.83	4.8	0.56	93	13.3	1"	1"	95
DCF163L 4	1x630	22	520	30	5000	STAR 0,19	0.39	3.9	0.46	93	13.3	1"	1"	95

DCF263E 3	2x630	83	1320	50	29600	DELTA 5,26	9.56	15.5	0.61	137	19.8	1"1/4	1"1/4	135
DCF363F 3	2x630	72	1050	46	25600	STAR 3,5	5.9	13.3	0.59	137	19.8	1"1/4	1"1/4	135
DCF263S 3	2x630	59	890	45	18000	DELTA 1,2	2.4	10	0.58	137	19.8	1"1/4	1"1/4	135
DCF263H 3	2x630	50	690	38	15000	STAR 0,8	1.36	8.3	0.57	137	19.8	1"1/4	1"1/4	135
DCF263M 3	2x630	41	660	36	13000	DELTA 0,66	1.66	7.5	0.56	137	19.8	1"1/4	1"1/4	135
DCF263L 3	2x630	35	520	30	10000	STAR 0,38	0.78	6.1	0.46	137	19.8	1"1/4	1"1/4	135

DCF263E 4	2x630	101	1320	50	29600	DELTA 5,26	9.56	19.5	0.61	185	27	1"1/2	1"1/2	150
DCF263F 4	2x630	90	1050	46	25600	STAR 3,5	5.9	16.2	0.59	185	27	1"1/2	1"1/2	150
DCF263S 4	2x630	70	890	45	18000	DELTA 1,2	2.4	12.3	0.58	185	27	1"1/2	1"1/2	150
DCF263H 4	2x630	61	690	38	15000	STAR 0,8	1.36	9.9	0.57	185	27	1"1/2	1"1/2	150
DCF263M 4	2x630	56	660	36	13000	DELTA 0,66	1.66	9.7	0.56	185	27	1"1/2	1"1/2	150
DCF263L 4	2x630	43	520	30	10000	STAR 0,38	0.78	7.7	0.46	185	27	1"1/2	1"1/2	150

DCF363E 3	3x630	125	1320	50	44400	DELTA 7,89	14.34	23.4	0.61	206	30	2"	2"	197
DCF363F 3	3x630	107	1050	46	38400	STAR 5,25	8.85	20	0.59	206	30	2"	2"	197
DCF363S 3	3x630	88	890	45	27000	DELTA 1,8	3.6	15	0.58	206	30	2"	2"	197
DCF363H 3	3x630	75	690	38	22500	STAR 1,2	2.04	12.6	0.57	206	30	2"	2"	197
DCF363M 3	3x630	63	660	36	19500	DELTA 0,99	2.49	11.3	0.56	206	30	2"	2"	197
DCF363L 3	3x630	51	520	30	15000	STAR 0,57	1.17	9.3	0.46	206	30	2"	2"	197



Capacità calcolata con Glicole etilenico 34%
Temperatura ingresso 40°C
Temperatura uscita 35°C
Temperatura aria 25°C



Capacity calculated whit Ethylen Glicol 34%
Temperature in 40°C
Temperature out 35°C
Temperature air 25°C



Motori	DT=15	RPM	Ipa 10m	Aria	Consumo	400V	fluid	fluid	Superf.	Vol.int.	Refrig.	Refrig.	Peso
Motors	KW		db	Air	Consumption	3ph 50hz	flow	flow	Surfa.	Int.Vol.	IN	OUT	Net W.
MODEL	D. 630	Glicol 34%		m³/h	kW	A	m³/h	BAR	m²	dm³	inch	inch	kg

DCF363E 4	3x630	150	1320	50	44400	DELTA 7,89	14.34	29.2	0.61	280	41	2"	2"	215
DCF363F 4	3x630	136	1050	46	38400	STAR 5,25	8.85	24.3	0.59	280	41	2"	2"	215
DCF363S 4	3x630	107	890	45	27000	DELTA 1,8	3.6	18.3	0.58	280	41	2"	2"	215
DCF363H 4	3x630	92	690	38	22500	STAR 1,2	2.04	14.9	0.57	280	41	2"	2"	215
DCF363M 4	3x630	81	660	36	19500	DELTA 0,99	2.49	14.5	0.56	280	41	2"	2"	215
DCF363L 4	3x630	66	520	30	15000	STAR 0,57	1.17	11.6	0.46	280	41	2"	2"	215

DCF463E 3	4x630	165	1320	50	59200	DELTA10,52	19.12	31	0.61	274	40	2"	2"	265
DCF463F 3	4x630	142	1050	46	51200	STAR 7	11.8	26.6	0.59	274	40	2"	2"	265
DCF463S 3	4x630	117	890	45	36000	DELTA 2,4	4.8	20	0.58	274	40	2"	2"	265
DCF463H 3	4x630	102	690	38	30000	STAR 1,6	2.72	16.7	0.57	274	40	2"	2"	265
DCF463M 3	4x630	83	660	36	26000	DELTA 1,32	3.32	15	0.56	274	40	2"	2"	265
DCF463L 3	4x630	67	520	30	20000	STAR 0,76	1.56	12.3	0.46	274	40	2"	2"	265

DCF463E 4	4x630	201	1320	50	59200	DELTA10,52	19.12	37.3	0.61	370	54	2"1/2	2"1/2	290
DCF463F 4	4x630	183	1050	46	51200	STAR 7	11.8	31.4	0.59	370	54	2"1/2	2"1/2	290
DCF463S 4	4x630	141	890	45	36000	DELTA 2,4	4.8	24.8	0.58	370	54	2"1/2	2"1/2	290
DCF463H 4	4x630	124	690	38	30000	STAR 1,6	2.72	20	0.57	370	54	2"1/2	2"1/2	290
DCF463M 4	4x630	106	660	36	26000	DELTA 1,32	3.32	19	0.56	370	54	2"1/2	2"1/2	290
DCF463L 4	4x630	87	520	30	20000	STAR 0,76	1.56	15.6	0.46	370	54	2"1/2	2"1/2	290

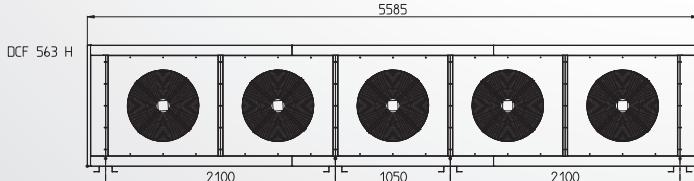
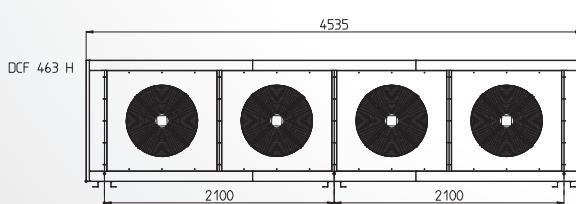
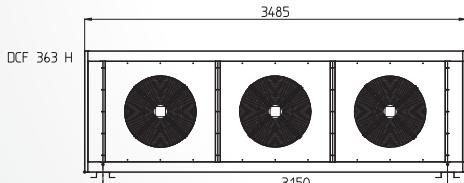
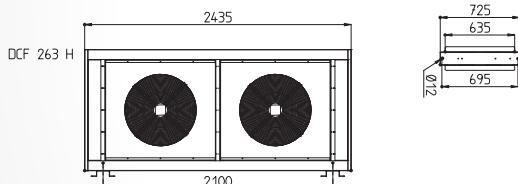
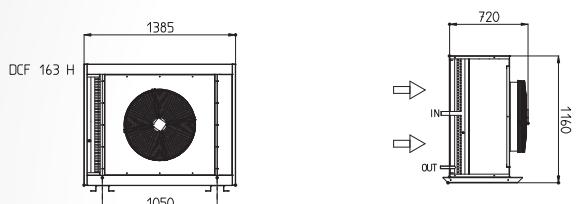
DCF563E 3	5x630	206	1320	50	74000	DELTA13,15	23.9	38.8	0.61	342	50	2"	2"	333
DCF563F 3	5x630	184	1050	46	64000	STAR 8,75	14.75	33.25	0.59	342	50	2"	2"	333
DCF563S 3	5x630	141	890	45	45000	DELTA 3	6	25	0.58	342	50	2"	2"	333
DCF563H 3	5x630	121	690	38	37500	STAR 2	3.43	20.8	0.57	342	50	2"	2"	333
DCF563M 3	5x630	101	660	36	32500	DELTA 1,65	4.15	18.8	0.56	342	50	2"	2"	333
DCF563L 3	5x630	86	520	30	25000	STAR 0,95	1.95	15.4	0.46	342	50	2"	2"	333

DCF563E 4	5x630	241	1320	50	74000	DELTA13,15	23.9	48.8	0.61	462	67	2"1/2	2"1/2	390
DCF563F 4	5x630	216	1050	46	64000	STAR 8,75	14.75	40	0.59	462	67	2"1/2	2"1/2	390
DCF563S 4	5x630	171	890	45	45000	DELTA 3	6	30	0.58	462	67	2"1/2	2"1/2	390
DCF563H 4	5x630	146	690	38	37500	STAR 2	3.43	24.5	0.57	462	67	2"1/2	2"1/2	390
DCF563M 4	5x630	126	660	36	32500	DELTA 1,65	4.15	24	0.56	462	67	2"1/2	2"1/2	390
DCF563L 4	5x630	104	520	30	25000	STAR 0,95	1.95	19.5	0.46	462	67	2"1/2	2"1/2	390

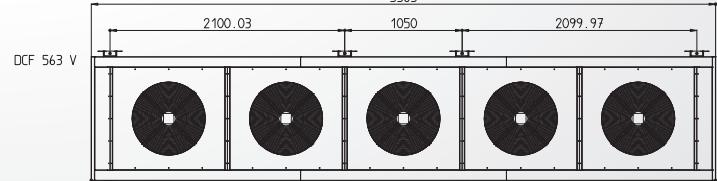
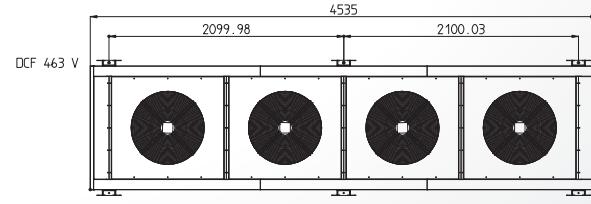
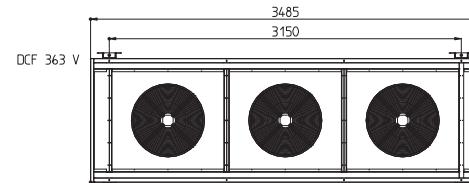
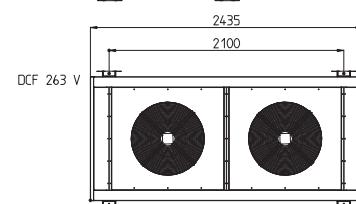
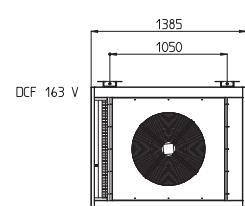
DCF 63



DCF63 H



DCF63 V





Motori	DT=15	RPM	Ipa 10m	Aria	Consumo	400V	fluid	fluid	Superf.	Vol.int.	Refrig.	Refrig.	Peso
Motors	KW		db	Air	Consumption	3ph 50hz	flow	flow	Surfa.	Int.Vol.	IN	OUT	Net W.
MODEL	D. 630	Glicol 34%		m³/h	kW	A	m³/h	BAR	m²	dm³	inch	inch	kg

DCF163E3 1x2	2x630	84	1320	53	29600	DELTA 5,26	9.56	7,7x2 0,61x2	138	19.8	1"	1"	180
DCF163F3 1x2	2x630	72	1050	49	25600	STAR 3,5	5.9	6,6x2 0,59x2	138	19.8	1"	1"	180
DCF163S3 1x2	2x630	58	890	48	18000	DELTA 1,2	2.4	4,9x2 0,58x2	138	19.8	1"	1"	180
DCF163H3 1x2	2x630	50	690	41	15000	STAR 0,8	1.36	4,1x2 0,57x2	138	19.8	1"	1"	180
DCF163M3 1x2	2x630	42	660	39	13000	DELTA 0,66	1.66	3,7x2 0,56x2	138	19.8	1"	1"	180
DCF163L3 1x2	2x630	36	520	30	10000	STAR 0,38	0.78	3x2 0,46x2	139	19.8	1"	1"	180

DCF163E4 1x2	2x630	98	1320	53	29600	DELTA 5,26	9.56	9,7x2 0,61x2	186	26.6	1"	1"	190
DCF163F4 1x2	2x630	88	1050	49	25600	STAR 3,5	5.9	8,1x2 0,59x2	186	26.6	1"	1"	190
DCF163S4 1x2	2x630	70	890	48	18000	DELTA 1,2	2.4	6x2 0,58x2	186	26.6	1"	1"	190
DCF163H4 1x2	2x630	60	690	41	15000	STAR 0,8	1.36	4,9x2 0,57x2	186	26.6	1"	1"	190
DCF163M4 1x2	2x630	52	660	39	13000	DELTA 0,66	1.66	4,8x2 0,56x2	186	26.6	1"	1"	190
DCF163L4 1x2	2x630	44	520	30	10000	STAR 0,38	0.78	3,9x2 0,46x2	186	26.6	1"	1"	190

DCF263E3 2x2	4x630	166	1320	55	59200	DELTA 10,52	19.12	15,5x2 0,61x2	274	39.6	1"1/4	1"1/4	270
DCF263F3 2x2	4x630	144	1050	52	51200	STAR 7	11.8	13,3x2 0,59x2	274	39.6	1"1/4	1"1/4	270
DCF263S3 2x2	4x630	118	890	51	36000	DELTA 2,4	4.8	10x2 0,58x2	274	39.6	1"1/4	1"1/4	270
DCF263H3 2x2	4x630	100	690	45	30000	STAR 1,6	2.72	8,3x2 0,57x2	274	39.6	1"1/4	1"1/4	270
DCF263M3 2x2	4x630	82	660	42	26000	DELTA 1,32	3.32	7,5x2 0,56x2	274	39.6	1"1/4	1"1/4	270
DCF263L3 2x2	4x630	70	520	35	20000	STAR 0,76	1.56	6,1x2 0,46x2	274	39.6	1"1/4	1"1/4	270

DCF263E4 2x2	4x630	202	1320	55	59200	DELTA 10,52	19.12	19,5x2 0,61x2	370	54	1"1/2	1"1/2	300
DCF263F4 2x2	4x630	180	1050	52	51200	STAR 7	11.8	16,2x2 0,59x2	370	54	1"1/2	1"1/2	300
DCF263S4 2x2	4x630	140	890	51	36000	DELTA 2,4	4.8	12,3x2 0,58x2	370	54	1"1/2	1"1/2	300
DCF263H4 2x2	4x630	122	690	45	30000	STAR 1,6	2.72	9,9x2 0,57x2	370	54	1"1/2	1"1/2	300
DCF263M4 2x2	4x630	112	660	42	26000	DELTA 1,32	3.32	9,7x2 0,56x2	370	54	1"1/2	1"1/2	300
DCF263L4 2x2	4x630	86	520	35	20000	STAR 0,76	1.56	7,7x2 0,46x2	370	54	1"1/2	1"1/2	300

DCF363E3 3x2	6x630	250	1320	57	88800	DELTA 15,78	28.68	23,4x2 0,61x2	412	60	2"	2"	394
DCF363F3 3x2	6x630	214	1050	55	76800	STAR 10,5	17.7	20x2 0,59x2	412	60	2"	2"	394
DCF363S3 3x2	6x630	176	890	54	54000	DELTA 3,6	7.2	15x2 0,58x2	412	60	2"	2"	394
DCF363H3 3x2	6x630	150	690	47	45000	STAR 2,4	4.08	12,6x2 0,57x2	412	60	2"	2"	394
DCF363M3 3x2	6x630	126	660	44	39000	DELTA 1,98	4.98	11,3x2 0,56x2	412	60	2"	2"	394
DCF363L3 3x2	6x630	102	520	39	30000	STAR 1,14	2.34	9,3x2 0,46x2	412	60	2"	2"	394

DCF 63x2



	Motori	DT=15	RPM	Ipa 10m	Aria	Consumo	400V	fluid	fluid	Superf.	Vol.int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	flow	flow	Surfa.	Int.Vol.	IN	OUT	Net W.
MODEL	D. 630	Glicol 34%			m³/h	kW	A	m³/h	BAR	m²	dm³	inch 2xinch 2x	kg	

DCF363E4 3x2	6x630	300	1320	57	88800	DELTA 15,78	28.68	29,2x2	0,61x2	560	82	2"	2"	430
DCF363F4 3x2	6x630	272	1050	55	76800	STAR 10,5	17.7	24,3x2	0,59x2	560	82	2"	2"	430
DCF363S4 3x2	6x630	214	890	54	54000	DELTA 3,6	7.2	18,3x2	0,58x2	560	82	2"	2"	430
DCF363H4 3x2	6x630	184	690	47	45000	STAR 2,4	4.08	14,9x2	0,57x2	560	82	2"	2"	430
DCF363M4 3x2	6x630	162	660	44	39000	DELTA 1,98	4.98	14,5x2	0,56x2	560	82	2"	2"	430
DCF363L4 3x2	6x630	132	520	39	30000	STAR 1,14	2.34	11,6x2	0,46x2	560	82	2"	2"	430

DCF463E3 4x2	8x630	330	1320	59	118400	DELTA 21,04	38.24	31x2	0,61x2	548	80	2"	2"	530
DCF463F3 4x2	8x630	284	1050	57	102400	STAR 14	23.6	26,6x2	0,59x2	548	80	2"	2"	530
DCF463S3 4x2	8x630	234	890	56	72000	DELTA 4,8	9.6	20x2	0,58x2	548	80	2"	2"	530
DCF463H3 4x2	8x630	204	690	48	60000	STAR 3,2	5.44	16,7x2	0,57x2	548	80	2"	2"	530
DCF463M3 4x2	8x630	166	660	47	52000	DELTA 2,64	6.64	15x2	0,56x2	548	80	2"	2"	530
DCF463L3 4x2	8x630	134	520	40	40000	STAR 1,52	3.12	12,3x2	0,46x2	548	80	2"	2"	530

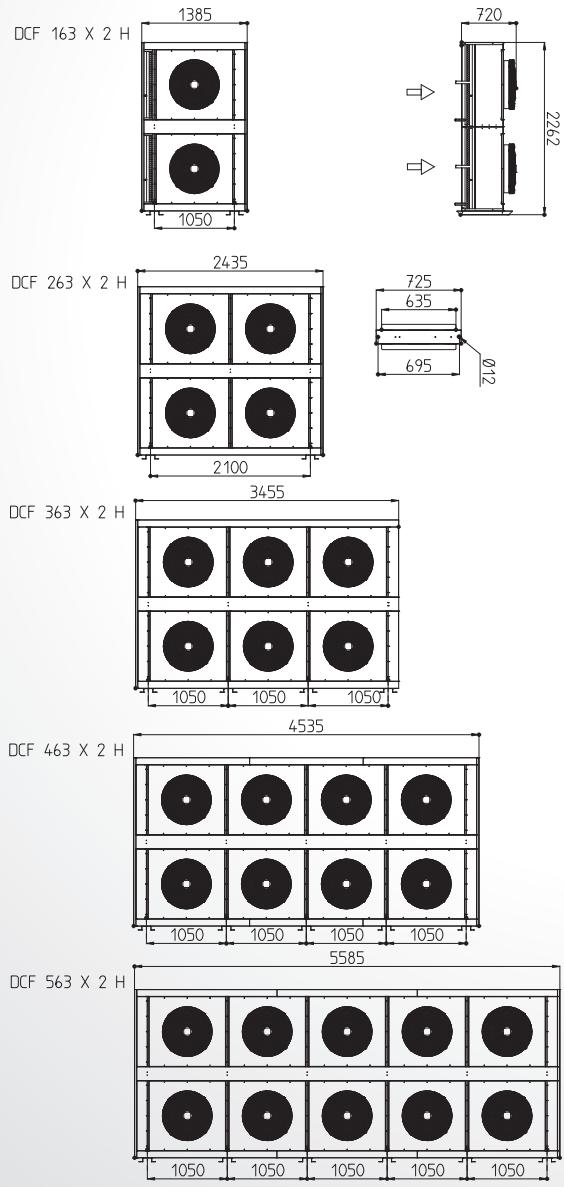
DCF463E4 4x2	8x630	401	1320	59	118400	DELTA 21,04	38.24	37,3x2	0,61x2	740	108	2"1/2	2"1/2	580
DCF463F4 4x2	8x630	366	1050	57	102400	STAR 14	23.6	31,4x2	0,59x2	740	108	2"1/2	2"1/2	580
DCF463S4 4x2	8x630	282	890	56	72000	DELTA 4,8	9.6	24,8x2	0,58x2	740	108	2"1/2	2"1/2	580
DCF463H4 4x2	8x630	248	690	48	60000	STAR 3,2	5.44	20x2	0,57x2	740	108	2"1/2	2"1/2	580
DCF463M4 4x2	8x630	212	660	47	52000	DELTA 2,64	6.64	19x2	0,56x2	740	108	2"1/2	2"1/2	580
DCF463L4 4x2	8x630	174	520	40	40000	STAR 1,52	3.12	15,6x2	0,46x2	740	108	2"1/2	2"1/2	580

DCF563E3 5x2	10x630	412	1320	61	148000	DELTA 26,3	47.8	38,8x2	0,61x2	684	100	2"	2"	666
DCF563F3 5x2	10x630	368	1050	59	128000	STAR 17,5	29.5	33,3x2	0,59x2	684	100	2"	2"	666
DCF563S3 5x2	10x630	282	890	58	90000	DELTA 6	12	25x2	0,58x2	684	100	2"	2"	666
DCF563H3 5x2	10x630	242	690	50	75000	STAR 4	6,96	20,8x2	0,57x2	684	100	2"	2"	666
DCF563M3 5x2	10x630	202	660	49	65000	DELTA 3,3	8.3	18,8x2	0,56x2	684	100	2"	2"	666
DCF563L3 5x2	10x630	172	520	42	50000	STAR 1,90	3.9	15,4x2	0,46x2	684	100	2"	2"	666

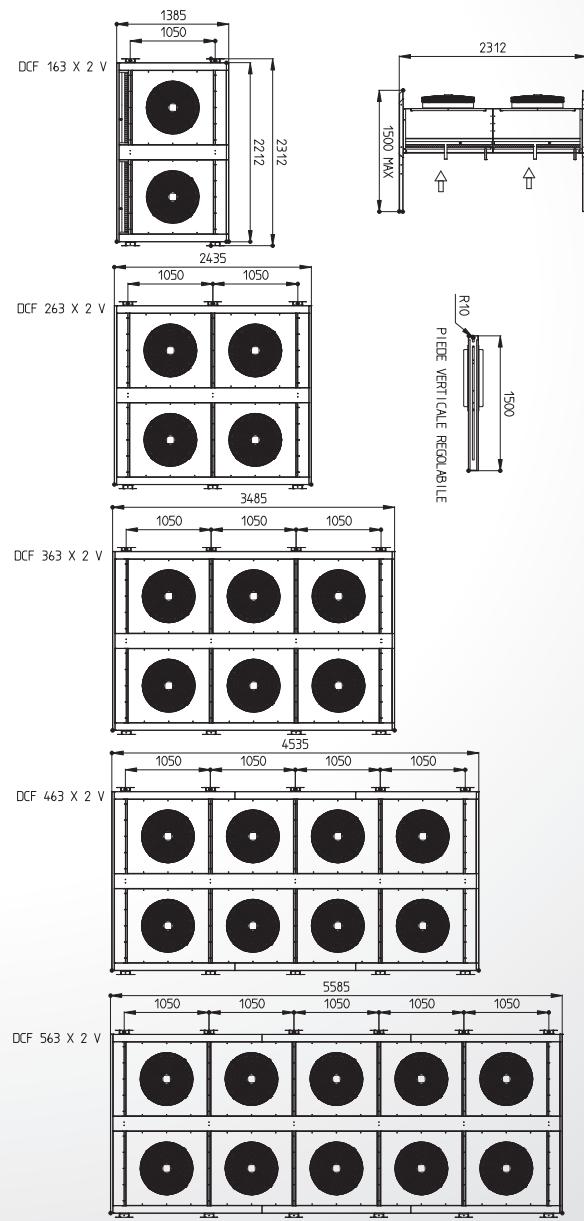
DCF563E4 5x2	10x630	241	1320	61	148000	DELTA 26,3	47.8	48,8x2	0,61x2	924	134	2"1/2	2"1/2	780
DCF563F4 5x2	10x630	216	1050	59	128000	STAR 17,5	29.5	40x2	0,59x2	924	134	2"1/2	2"1/2	780
DCF563S4 5x2	10x630	171	890	58	90000	DELTA 6	12	30x2	0,58x2	924	134	2"1/2	2"1/2	780
DCF563H4 5x2	10x630	146	690	50	75000	STAR 4	6,96	24,5x2	0,57x2	924	134	2"1/2	2"1/2	780
DCF563M4 5x2	10x630	126	660	49	65000	DELTA 3,3	8.3	24x2	0,56x2	924	134	2"1/2	2"1/2	780
DCF563L4 5x2	10x630	104	520	42	50000	STAR 1,90	3.9	19,5x2	0,46x2	924	134	2"1/2	2"1/2	780



DCF63x2 H



DCF63x2 V



DCF 80

Raffreddatori di liquido

Aero Refrigerant

Dry coolers

Сухие градирни



I raffreddatori di liquido della **serie DCF80** sono adatti per varie applicazioni, dal condizionamento alla refrigerazione commerciale e industriale. **Mod. DCF80 S-H-M-L** : con motoventilatori ø 800mm., 400v/3/50hz, 6/8 poli, passo alette mm. 2.1. La sigla S-H-M-L differenzia le varie velocità del motoventilatore. Tutti i raffreddatori di liquido della serie **DCF80** possono avere il flusso d'aria orizzontale "H" o il flusso dell'aria verticale "V". I motoventilatori 400v/3/50hz sono a doppia velocità.



AERO REFRIGERANTS de la série **DCF80** sont condenseurs pour different applications, à partir du conditionnement et réfrigération commercial, jusqu'au conditionnement et réfrigération industrielle. **Mod. DCF80 S-H-M-L**: avec motoventilateurs ø 800mm, 3phases 400v/3/50hz., 6/8 poles écartement ailettes mm. 2,1. La lettre E-F-S-H-M-L indique les different vitesses du motoventilateur. Tous les aero refrigerants de la serie **DCF80** peuvent avoir le flux de l'air Horizontal "H" ou Vertical "V" . Tous les motoventilateurs 400v/3/50hz sont à double vitesse.



The Dry Coolers **MOD. DCF80** are, recommended for several applications as conditioning and commercial or industrial refrigeration. **Mod. DCF80 S-H-M-L**: with fan motor ø 800mm, 400v/3/50hz 6/8 poles, fin spacing mm. 2,1. The letters S-H-M-L specify the different speeds of the fan motor. It is possible to have the dry coolers **DCF80** with the air flow horizontal "H" or air flow vertical "V". All the fan motors 400v/3/50hz are with double speed.



SERIE DCF80 , СУХИЕ ГРАДИРНИ предназначенные для различного применения, начиная от кондиционирования и охлаждения в торговом оборудовании до промышленного использования. **МОД. DCF80 S-H-M-L**: дистанционный конденсатор с мотовентиляторами ø 800 мм, 400в/3/50 Гц 6/8 полюсными, шаг лопастей 2,1 мм Сокращение S-H-M-L обозначает разные скорости мотовентилятора. Все дистанционные конденсаторы серии **DCF80** предусматривают горизонтальный "H" или вертикальный воздушный поток "V". Мотовентиляторы 400в/3/50 Гц двухскоростные.



	Motori	DT=15	RPM	Ipa 10m	Aria	Consumo	400V	fluid	fluid	Superf.	Vol.int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	flow	flow	Surfa.	Int.Vol.	IN	OUT	Net W.
MODEL	D. 800	Glicol 34%			m³/h	kW	A	m³/h	BAR	m²	dm³	inch	inch	kg

DCF180S 3	1x800	46	880	54	20000	DELTA 2	4	8.4	0.52	85	13	2"	2"	150
DCF180H 3	1x800	41	660	48	15500	STAR 1,25	2.3	7	0.51	85	13	2"	2"	150
DCF180M 3	1x800	38	660	46	14500	DELTA 1,05	2.4	6.7	0.48	85	13	2"	2"	150
DCF180L 3	1x800	30	480	39	10000	STAR 0,77	1.5	5.2	0.46	85	13	2"	2"	150

DCF180S 4	1x800	57	880	54	18000	DELTA 2	4	9.6	0.52	114	17	2"	2"	180
DCF180H 4	1x800	45	660	48	13500	STAR 1,25	2.3	7.8	0.51	114	17	2"	2"	180
DCF180M 4	1x800	43	660	46	12800	DELTA 1,05	2.4	7.5	0.48	114	17	2"	2"	180
DCF180L 4	1x800	33	480	39	8800	STAR 0,77	1.5	4	0.46	114	17	2"	2"	180

DCF280S 3	2x800	95	880	55	40000	DELTA 4	8	16.7	0.52	170	25	2"	2"	295
DCF280H 3	2x800	80	660	49	31000	STAR 2,5	4.6	14	0.51	170	25	2"	2"	295
DCF280M 3	2x800	76	660	47	29000	DELTA 2,1	4.8	13.4	0.48	170	25	2"	2"	295
DCF280L 3	2x800	59	480	40	20000	STAR 1,54	3	10.3	0.46	170	25	2"	2"	295

DCF280S 4	2x800	111	880	55	36000	DELTA 4	8	19.3	0.52	227	33	2"	2"	345
DCF280H 4	2x800	89	660	49	27000	STAR 2,5	4.6	15.6	0.51	227	33	2"	2"	345
DCF280M 4	2x800	85	660	47	25600	DELTA 2,1	4.8	15	0.48	227	33	2"	2"	345
DCF280L 4	2x800	64	480	40	17600	STAR 1,54	3	11.3	0.46	227	33	2"	2"	345

DCF380S 3	3x800	143	880	56	60000	DELTA 6	12	25.3	0.52	255	37	2"1/2	2"1/2	465
DCF380H 3	3x800	121	660	50	46500	STAR 3,75	6.9	21.3	0.51	255	37	2"1/2	2"1/2	465
DCF380M 3	3x800	116	660	48	43500	DELTA 3,15	7.2	20.4	0.48	255	37	2"1/2	2"1/2	465
DCF380L 3	3x800	89	480	42	30000	STAR 2,31	4.5	15.7	0.46	2551	37	2"1/2	2"1/2	465

DCF380S 4	3x800	170	880	56	54000	DELTA 6	12	28.9	0.52	340	50	2"1/2	2"1/2	520
DCF380H 4	3x800	140	660	50	40500	STAR 3,75	6.9	16	0.51	340	50	2"1/2	2"1/2	520
DCF380M 4	3x800	130	660	48	38400	DELTA 3,15	7.2	22.5	0.48	340	50	2"1/2	2"1/2	520
DCF380L 4	3x800	100	480	42	26400	STAR 2,31	4.5	16.9	0.46	340	50	2"1/2	2"1/2	520

DCF480S 3	4x800	230	880	57	80000	DELTA 8	16	38.6	0.52	455	66	2"1/2	2"1/2	700
DCF480H 3	4x800	180	660	51	62000	STAR 5	9.2	31.3	0.51	455	66	2"1/2	2"1/2	700
DCF480M 3	4x800	175	660	49	58000	DELTA 4,2	9.6	30	0.48	455	66	2"1/2	2"1/2	700
DCF480L 3	4x800	135	480	43	40000	STAR 3,08	6	22.5	0.46	455	66	2"1/2	2"1/2	700

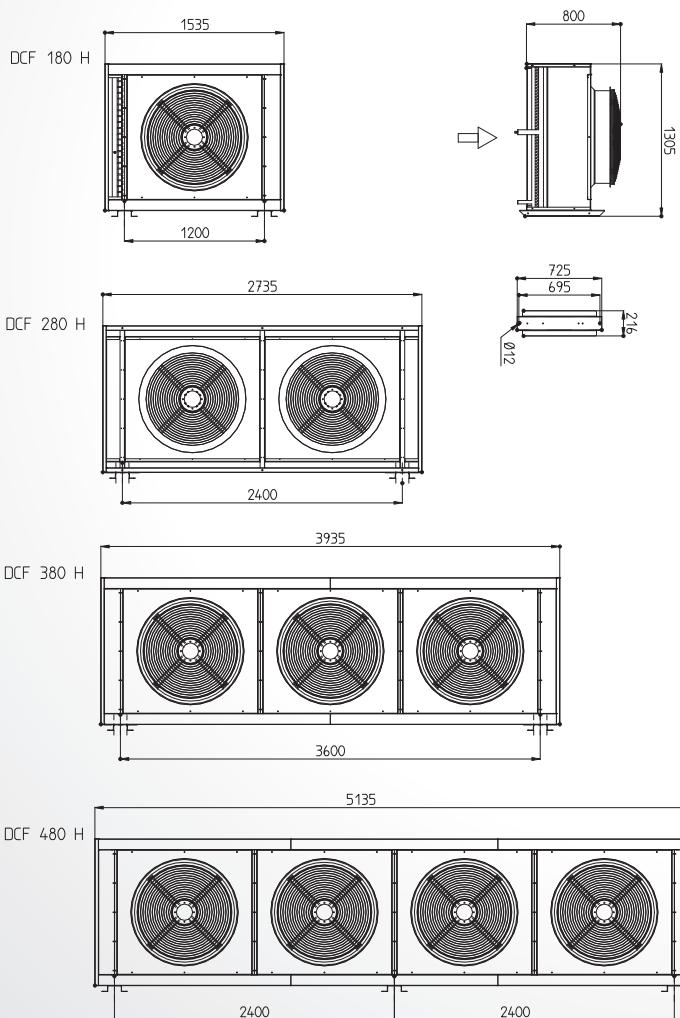
Capacità calcolata con Glicole etilenico 34%
 Temperatura ingresso 40°C
 Temperatura uscita 35°C
 Temperatura aria 25°C

Capacity calculated whit Ethylen Glicol 34%
 Temperature in 40°C
 Temperature out 35°C
 Temperature air 25°C

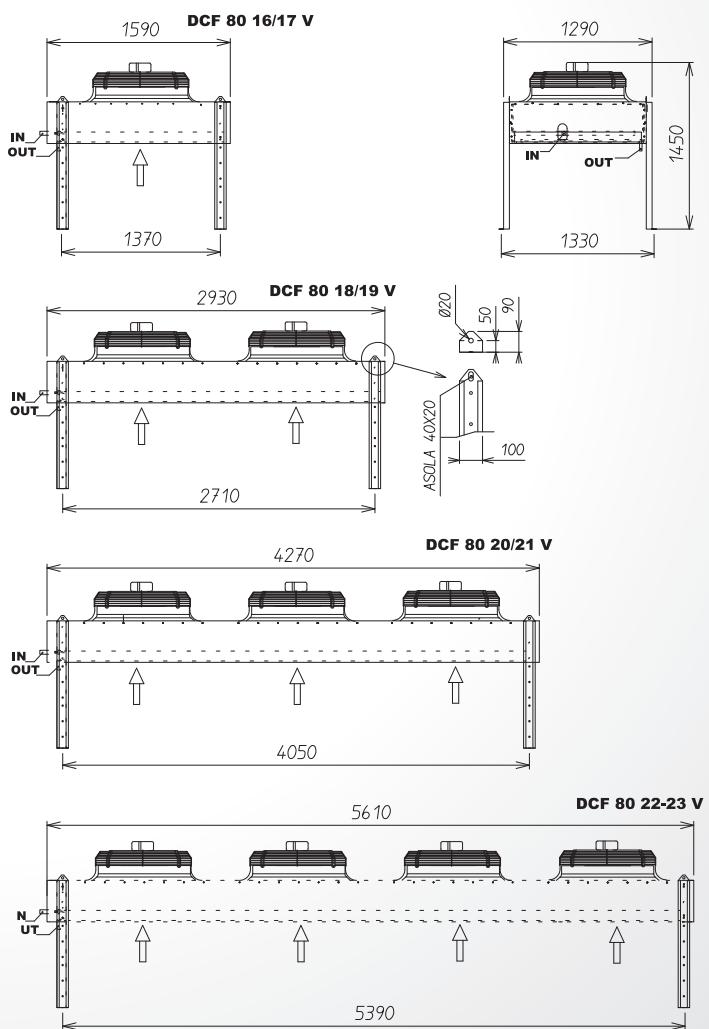
DCF 80



DCF80 H



DCF80 V





MODEL	Motore D. 800	Motori KW Glicol 34%	DT=15	RPM	Ipa 10m db	Aria Air	Consumo Consumption	400V 3ph 50hz	fluid flow	fluid flow	Supe. Surf.	Vol.int. Int.Vol.	Refrig. IN	Refrig. OUT	Peso Net W.
						m³/h	kW	A	m³/h	BAR	m²	dm³	inch 2x	inch 2x	kg

DCF180S 3x2	2x800	92	880	55	40000	DELTA 4	8	8,4x2	0,52x2	170	26	2"	2"	300
DCF180H 3x2	2x800	82	660	49	31000	STAR 2,5	4.6	7x2	0,51x2	170	26	2"	2"	300
DCF180M 3x2	2x800	76	660	47	29000	DELTA 2,1	4.8	6,7x2	0,48x2	170	26	2"	2"	300
DCF180L 3x2	2x800	60	480	40	20000	STAR 1,54	3	5,2x2	0,46x2	170	26	2"	2"	300

DCF180S 4x2	2x800	114	880	55	36000	DELTA 4	8	9,6x2	0,52x2	228	34	2"	2"	360
DCF180H 4x2	2x800	90	660	49	27000	STAR 2,5	4.6	7,8x2	0,51x2	228	34	2"	2"	360
DCF180M 4x2	2x800	86	660	47	25600	DELTA 2,1	4.8	7,5x2	0,48x2	228	34	2"	2"	360
DCF180L 4x2	2x800	66	480	40	17600	STAR 1,54	3	4x2	0,46x2	228	34	2"	2"	360

DCF280S 3x2	4x800	190	880	57	80000	DELTA 8	16	16,7x2	0,52x2	340	50	2"	2"	590
DCF280H 3x2	4x800	160	660	51	62000	STAR 5	9.2	14x2	0,51x2	340	50	2"	2"	590
DCF280M 3x2	4x800	152	660	49	58000	DELTA 4,2	9.6	13,4x2	0,48x2	340	50	2"	2"	590
DCF280L 3x2	4x800	118	480	43	40000	STAR 3,08	6	10,3x2	0,46x2	340	50	2"	2"	590

DCF280S 4x2	4x800	222	880	57	72000	DELTA 8	16	19,3x2	0,52x2	454	66	2"	2"	690
DCF280H 4x2	4x800	178	660	51	54000	STAR 5	9.2	15,6x2	0,51x2	454	66	2"	2"	690
DCF280M 4x2	4x800	170	660	49	51200	DELTA 4,2	9.6	15x2	0,48x2	454	66	2"	2"	690
DCF280L 4x2	4x800	128	480	43	35200	STAR 3,08	6	11,3x2	0,46x2	454	66	2"	2"	690

DCF380S 3x2	6x800	286	880	62	120000	DELTA 12	24	25,3x2	0,52x2	510	74	2"1/2	2"1/2	930
DCF380H 3x2	6x800	242	660	55	93000	STAR 7,5	13.8	21,3x2	0,51x2	510	74	2"1/2	2"1/2	930
DCF380M 3x2	6x800	232	660	54	87000	DELTA 6,3	14.4	20,4x2	0,48x2	510	74	2"1/2	2"1/2	930
DCF380L 3x2	6x800	178	480	47	60000	STAR 4,62	9	15,7x2	0,46x2	510	74	2"1/2	2"1/2	930

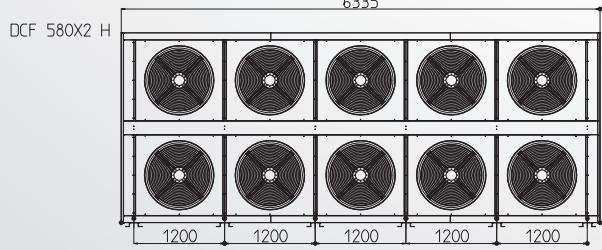
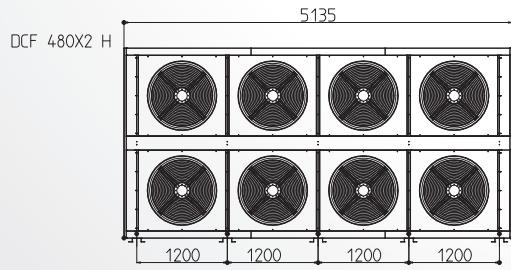
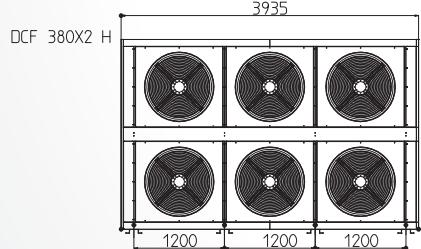
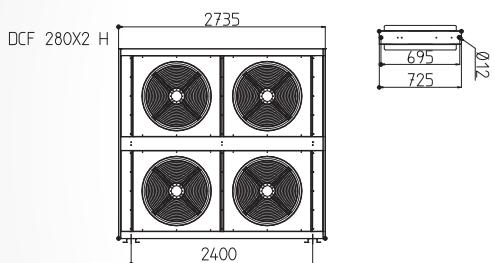
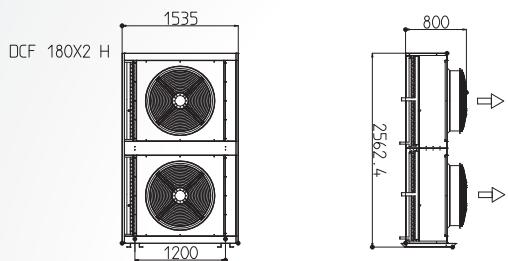
DCF380S 4x2	6x800	340	880	62	108000	DELTA 12	24	28,9x2	0,52x2	680	100	2"1/2	2"1/2	1040
DCF380H 4x2	6x800	280	660	55	81000	STAR 7,5	13.8	16x2	0,51x2	680	100	2"1/2	2"1/2	1040
DCF380M 4x2	6x800	260	660	54	76800	DELTA 6,3	14.4	22,5x2	0,48x2	680	100	2"1/2	2"1/2	1040
DCF380L 4x2	6x800	200	480	47	52800	STAR 4,62	9	16,9x2	0,46x2	680	100	2"1/2	2"1/2	1040

DCF480S 3x2	8x800	460	880	63	144000	DELTA 16	32	38,6x2	0,52x2	910	132	2"1/2	2"1/2	1400
DCF480H 3x2	8x800	360	660	56	108000	STAR 10	18.4	31,3x2	0,51x2	910	132	2"1/2	2"1/2	1400
DCF480M 3x2	8x800	350	660	55	102400	DELTA 8,4	19.2	30x2	0,48x2	910	132	2"1/2	2"1/2	1400
DCF480L 3x2	8x800	270	480	48	70400	STAR 6,16	12	22,5x2	0,46x2	910	132	2"1/2	2"1/2	1400

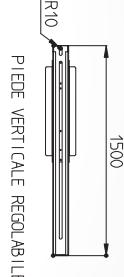
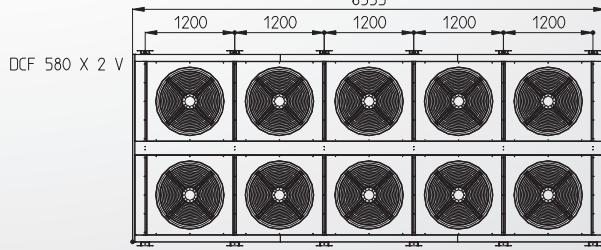
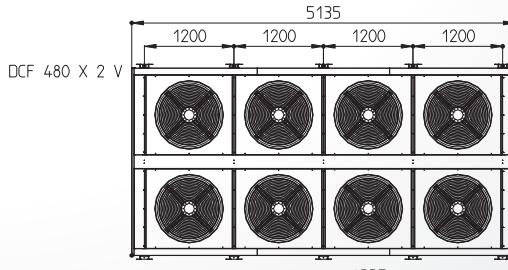
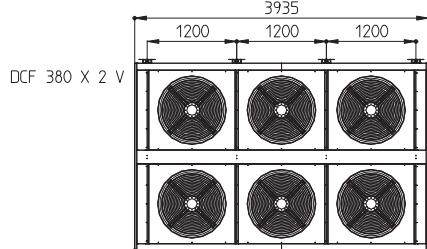
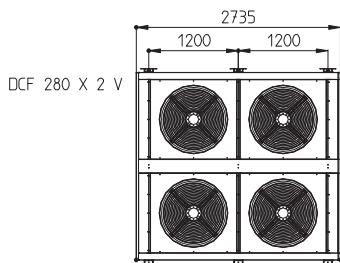
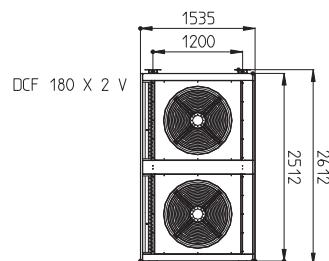
DCF 80x2



DCF80x2 H



DCF80x2 V



Raffreddatori di liquido
Aero Refrigerant
Dry coolers
Сухие градирни



I raffreddatori di liquido **série DCAV** sono condensatori remoti adatti per varie applicazioni, dal condizionamento e refrigerazione commerciale a quella industriale. **Mod. DCAV** condensatore remoto con motoventilatori ø 800mm., 400v/3/50hz 6/8/12 poli, passo alette mm. 2.1. La sigla S-H-M-L differenzia le varie velocità del motoventilatore. I motoventilatori 400v/3/50hz sono a doppia velocità.



AERO REFRIGERANTS mod. **DCAV** sont condenseurs indiqués pour different applications, à partir du conditionnement et réfrigération commerciale, jusqu'au conditionnement et réfrigération industrielle. Mod. **DCAV**: condenseur avec motoventilateurs dia. 800mm., 400v/3/50hz 6/8/12 poles, écartement ailettes mm.2,1. Les motoventilateurs 400v/3/50hz sont à double vitesse.



The Dry Coolers **MOD. DCAV** are remote air condensers, recommended for several applications from conditioning and commercial till industrial refrigeration. **MOD. DCAV** remote condenser with fan motor ø 800mm, 400v/3/50hz, 6/8/12 poles ,fin spacing mm. 2,1. The letters S-H-M-L specify the different speeds of the fan motor. All the fan motors 400v/3/50 z are with double speed.



СУХИЕ ГРАДИРНИ **SERIE DCAV** - дистанционные конденсаторы, предназначенные для различного применения, начиная от кондиционирования и охлаждения в торговом оборудовании до промышленного использования. **МОД. DCAV** дистанционный конденсатор с мотовентиляторами ø 800 мм, 400в/3/50 Гц 6/8/12 полюсными, шаг лопастей 2,1 мм . Сокращение S-H-M-L обозначает разные скорости мотовентилятора. Мотовентиляторы 400в/3/50 Гц двухскоростные.



Capacità calcolata con Glicole etilenico 34%
Temperatura ingresso 40°C
Temperatura uscita 35°C
Temperatura aria 25°C



Capacity calculated whit Ethylen Glicol 34%
Temperature in 40°C
Temperature out 35°C
Temperature air 25°C



	Motori	DT=15	RPM	Ipa 10m	Aria	Consumo	400V	fluid	fluid	Superf.	Vol.int.	Refrig.	Refrig.	Peso
	Motors	KW		db	Air	Consumption	3ph 50hz	flow	flow	Surfa.	Int.Vol.	IN	OUT	Net W.
MODEL	D. 800	Glicol 34%			m³/h	kW	A	m³/h	BAR	m²	dm³	inch	inch	kg

DCAVS 1	2x800	138	880	53	44000	DELTA 4	8	21.4	0.85	270	39	2"	2"	380
DCAVH 1	2x800	118	660	46	35000	STAR 2,5	4.6	18.2	0.64	270	39	2"	2"	380
DCAVM 1	2x800	117	660	46	34800	DELTA 2,1	4.8	18.1	0.63	270	39	2"	2"	380
DCAVL 1	2x800	94	480	43	25800	STAR 1,54	3	14.6	0.43	270	39	2"	2"	380

DCAVS 2	2x800	158	880	53	42000	DELTA 4	8	24.6	0.72	360	52	2"	2"	410
DCAVH 2	2x800	132	660	46	33000	STAR 2,5	4.6	20.5	0.52	360	52	2"	2"	410
DCAVM 2	2x800	131	660	46	32800	DELTA 2,1	4.8	20.4	0.52	360	52	2"	2"	410
DCAVL 2	2x800	102	480	43	23800	STAR 1,54	3	15.8	0.33	360	52	2"	2"	410

DCAVS 3	3x800	208	880	55	66000	DELTA 6	12	32.3	0.76	405	60	2"	2"	560
DCAVH 3	3x800	177	660	48	52500	STAR 3,75	6.9	27.4	0.57	405	60	2"	2"	560
DCAVM 3	3x800	176	660	48	52200	DELTA 3,15	7.2	27.3	0.57	405	60	2"	2"	560
DCAVL 3	3x800	174	480	45	51600	STAR 2,31	4.5	27.1	0.56	405	60	2"	2"	560

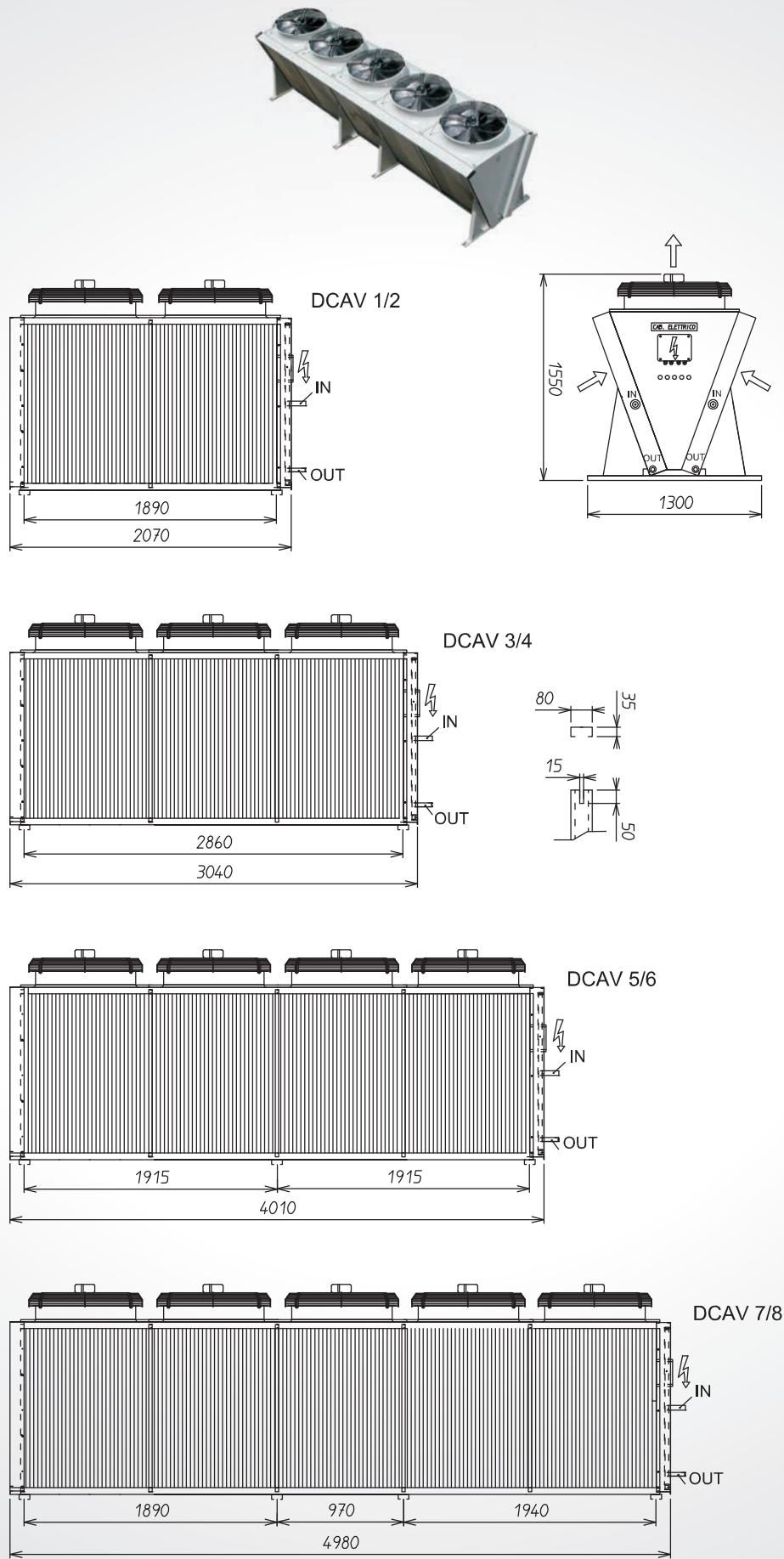
DCAVS 4	3x800	239	880	55	63000	DELTA 6	12	37.2	0.8	540	80	2"	2"	600
DCAVH 4	3x800	200	660	48	49500	STAR 3,75	6.9	31	0.58	540	80	2"	2"	600
DCAVM 4	3x800	197	660	48	49200	DELTA 3,15	7.2	30.8	0.57	540	80	2"	2"	600
DCAVL 4	3x800	193	480	45	47600	STAR 2,31	4.5	30	0.55	540	80	2"	2"	600

DCAVS 5	4x800	278	880	56	88000	DELTA 8	16	43.3	0.9	560	80	2"1/2	2"1/2	740
DCAVH 5	4x800	237	660	49	70000	STAR 5	9.2	36.8	0.69	560	80	2"1/2	2"1/2	740
DCAVM 5	4x800	235	660	49	69600	DELTA 4,2	9.6	36.7	0.57	560	80	2"1/2	2"1/2	740
DCAVL 5	4x800	189	480	46	51600	STAR 3,08	6	29.4	0.46	560	80	2"1/2	2"1/2	740

DCAVS 6	4x800	319	880	56	84000	DELTA 8	16	49.6	0.78	720	106	2"1/2	2"1/2	800
DCAVH 6	4x800	265	660	49	66000	STAR 5	9.2	41.3	0.56	720	106	2"1/2	2"1/2	800
DCAVM 6	4x800	264	660	49	65600	DELTA 4,2	9.6	41.1	0.68	720	106	2"1/2	2"1/2	800
DCAVL 6	4x800	204	480	46	47600	STAR 3,08	6	31.9	0.36	720	106	2"1/2	2"1/2	800

DCAVS 7	5x800	347	880	57	110000	DELTA 10	20	54.1	0.82	730	100	2"1/2	2"1/2	930
DCAVH 7	5x800	306	660	50	87500	STAR 6,25	11.5	46	0.61	730	100	2"1/2	2"1/2	930
DCAVM 7	5x800	293	660	50	87000	DELTA 5,25	12	45.8	0.56	730	100	2"1/2	2"1/2	930
DCAVL 7	5x800	236	480	47	64500	STAR 3,85	7.5	36.7	0.41	730	100	2"1/2	2"1/2	930

DCAVS 8	5x800	400	880	57	105000	DELTA 10	20	62.4	0.88	900	135	2"1/2	2"1/2	1010
DCAVH 8	5x800	334	660	50	82500	STAR 6,25	11.5	51.9	0.64	900	135	2"1/2	2"1/2	1010
DCAVM 8	5x800	331	660	50	82000	DELTA 5,25	12	51.7	0.61	900	135	2"1/2	2"1/2	1010
DCAVL 8	5x800	258	480	47	59500	STAR 3,85	7.5	40.1	0.4	900	135	2"1/2	2"1/2	1010



Note

SER S.r.l.

Mod. SER/A-CR
REV. 12 DATA 02/2020

Design and print:
www.print-promet.rs



S.E.R.

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