

AEROEVAPORATORI CUBICI A SOFFITTO

tubo rigato

*Ceiling cubic unit coolers*

*rifled tube*

Ø 350\_450



**RIVACOLD**

**Tabella / Table**

|     |  |
|-----|--|
| (A) | RCMR1350604<br>RCMR1350604ED<br>RCMR1350606<br>RCMR1350606ED<br>RCMR1350608<br>RCMR1350608ED   |
| (B) | RCMR2350404<br>RCMR2350404ED<br>RCMR2350804<br>RCMR2350804ED<br>RCMR2350406<br>RCMR2350406ED<br>RCMR2350806<br>RCMR2350806ED<br>RCMR2350408<br>RCMR2350408ED<br>RCMR2350808<br>RCMR2350808ED |
| (C) | RCMR3350604<br>RCMR3350604ED<br>RCMR3350606<br>RCMR3350606ED<br>RCMR3350608<br>RCMR3350608ED   |
| (D) | RCMR4350604<br>RCMR4350604ED<br>RCMR4350606<br>RCMR4350606ED<br>RCMR4350608<br>RCMR4350608ED   |



Ø 350

## Aeroevaporatori cubici a soffitto RCMR tubo rigato

RIVACOLD

### RCMR Ceiling cubic unit coolers rifled tubes

#### Caratteristiche generali

Gli aeroevaporatori della serie RCMR Ø350 sono stati ideati per essere installati in celle frigorifere per la conservazione di prodotti freschi e congelati.

Questa gamma completa le applicazioni della gamma RC e RCS pur mantenendo dimensioni compatte, arriva a coprire rese maggiori adatte per applicazioni su celle di media grandezza.

La gamma RCMR Ø350 è disponibile in diverse combinazioni di passi alette e ranghi opportunamente dimensionati a seconda dell'applicazione richiesta.

Tutti i modelli sono realizzati con geometria 37,5 x 32,5 e tubo da 12 mm rigato.

La serie ED, fornita di resistenze di sbrinamento già montate, è adatta per essere utilizzata alle basse temperature.

Il funzionamento in modalità aspirante del motoventilatore, evita la formazione di condensa sulla ventola.

#### General features

RCMR Ø350 range unit coolers have been designed to be installed inside cold rooms suited for fresh and frozen goods storage. This range completes the RC and RCS range applications and though having extremely compact dimensions, reaches bigger capacities suited for medium size cold rooms.

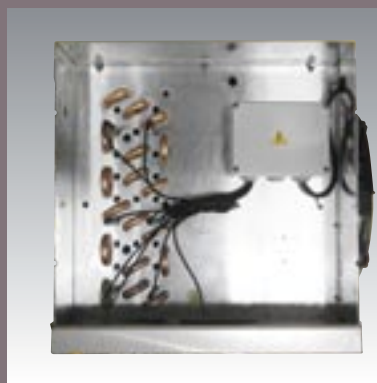
RCMR Ø350 range is available in different combinations of fin spacing dimensions and tube rows properly sized according to the needed applications. All models are built with a geometry of 37,5 x 32,5 and 12mm rifled tube.

The ED version is supplied with mounted defrosting heaters and is suitable for being used at low temperature applications.

The fan motors operate in the draw through mode and prevent the condensate forming on the fan.

#### Optional - *Optional items*

- Batteria verniciata  
*Varnished coil*
- Resistenza per il tubo di scarico con alimentazione elettrica 220V/1/50Hz (per alimentazioni differenti consultare il nostro ufficio tecnico).  
*Drainage pipe heater of 220V/1/50Hz voltages (for different voltages please contact our technical dept).*



Lato collegamento elettrico  
*electrical connection side.*



Lato collegamento frigorifero  
*pipe connection side.*

## Caratteristiche costruttive



### Manufacturing features

#### Batteria

La batteria è costituita da alette in alluminio, tubo in rame da 12mm rigato e geometria 37,5 x 32,5.

Gli RCMR Ø350 si suddividono in tre gruppi, ognuno specifico a seconda della temperatura della richiesta (Tc): passo alette 4mm per Tc da -5°C a +15°C; passo alette 6mm per Tc da -20°C a +15°C; passo alette 8mm per Tc da -40°C a +4°C. La batteria viene collaudata con azoto da una pressione di 25 bar.

#### Motoventilatore

Il motoventilatore utilizzato ha le seguenti caratteristiche:

- costruito nel rispetto delle norme EN 60335-1, con protezione termica interna
- diametro ventola 350 mm, rotore esterno
- alimentazione 230-240V/1/50-60Hz
- grado di protezione IP44
- classe di isolamento F
- temperatura di funzionamento da -40°C a +65°C
- esecuzione elettrica conforme alla direttiva 2006/95/CE Bassa Tensione

#### Carenatura

È realizzata in alluminio. Le soluzioni costruttive adottate conferiscono robustezza alla carenatura e garantiscono l'assenza di vibrazioni durante il funzionamento. Le viti, le rondelle e i dadi sono in acciaio inossidabile.

#### Coil

The coil is made in aluminum fins, 12mm rifled copper tube and a geometry of 37,5 x 32,5.

RCMR Ø350 unit coolers can be classified in three groups according to the needed cold room temperature (Tc): 4mm fin spacing for a Tc from -5°C to +15°C; 6mm fin spacing for a Tc from -20°C to +15°C; 8mm fin spacing for a Tc from -40°C to +4°C.

The coils are tested with nitrogen at a pressure of 25 bar.

#### Fan motors

The fan motor models in use has the following features:

- manufactured following EN 60335-1 laws, with internal thermal protection
- fan diameter 350 mm, external rotor
- power supply 230-240V/1/50-60Hz
- IP44 protection rate
- F insulation class
- operating temperature from -40°C to +65°C
- electrics made in conformity with 2006/95/CE low tension directive

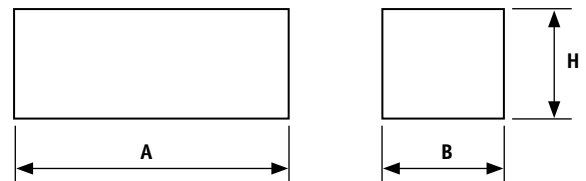
#### Housing

The housing is made of aluminium. The manufacturing solutions used give the housing strength and guarantee the absence of vibrations during the functioning. Screws, washers and nuts are made of stainless steel.

## Dimensione imballi

### Packages dimensions

| Codice<br>Code | Dimensioni imballo evaporatore<br>Evaporator package dimensions |         |         |                      |
|----------------|---|---------|---------|----------------------|
|                | A<br>mm   | B<br>mm | H<br>mm | Peso<br>Weight<br>kg |
| RCMR1350....   | 990   | 715     | 600     | 7,2                  |
| RCMR2350....   | 1350  | 715     | 600     | 12,0                 |
| RCMR3350....   | 1800  | 715     | 600     | 15,0                 |
| RCMR4350....   | 2250  | 715     | 600     | 18,0                 |



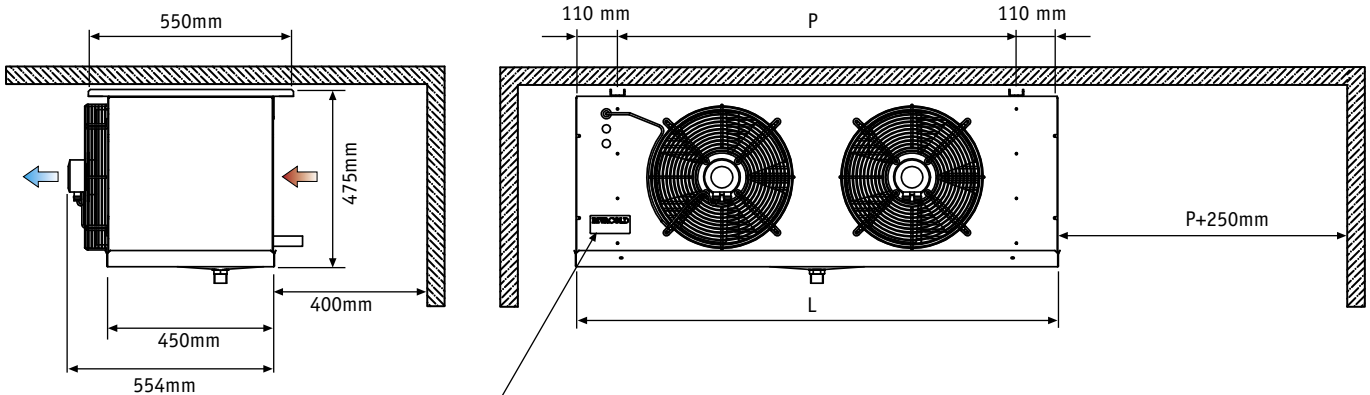


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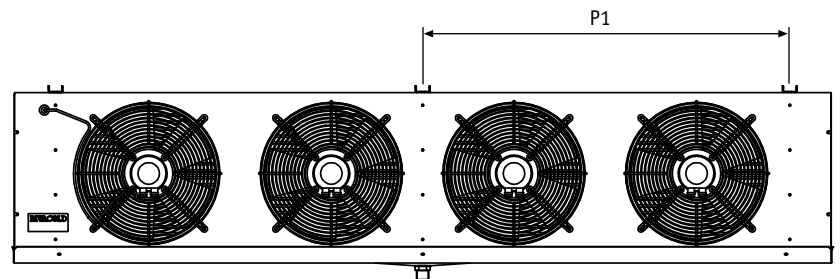
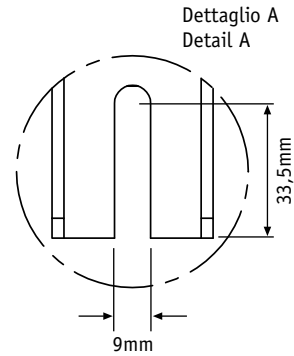
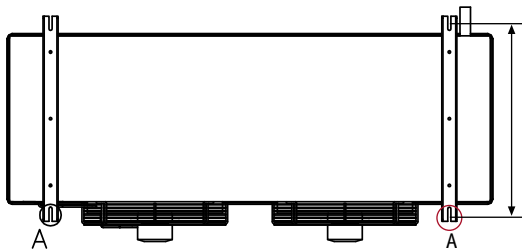
Caratteristiche costruttive

Manufacturing features

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Etichetta di riconoscimento  
Identifying label



Serie RCMR / RCMR Range

| Modello<br>Model                 | RCMR                  | 1350604<br>1350606<br>1350608 | 1350604ED<br>1350606ED<br>1350608ED | 2350404<br>2350406<br>2350408 | 2350404ED<br>2350406ED<br>2350608ED | 2350804<br>2350806<br>2350808 | 2350804ED<br>2350806ED<br>2350808ED | 3350604<br>3350606<br>3350608 | 3350604ED<br>3350606ED<br>3350608ED | 4350604<br>4350606<br>4350608 | 4350604ED<br>4350606ED<br>4350608ED |
|----------------------------------|-----------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|
| Dimensioni<br>Dimensions<br>(mm) | P                     | 710                           |                                     | 1070                          |                                     | 1070                          |                                     | 1520                          |                                     | 1970                          |                                     |
|                                  | P1                    | -                             |                                     | -                             |                                     | -                             |                                     | -                             |                                     | 985                           |                                     |
|                                  | L                     | 944                           |                                     | 1304                          |                                     | 1304                          |                                     | 1754                          |                                     | 2204                          |                                     |
| Attacchi<br>Connections          | Ø ingresso<br>Ø inlet | 12x1mm 1/2" SAE               |                                     | 12x1mm 1/2" SAE               |                                     | 16x1mm 5/8" SAE               |                                     | 22 x 1mm                      |                                     | 28 x 1,5mm                    |                                     |
|                                  | Ø uscita<br>Ø outlet  | 22 x 1mm                      |                                     | 28 x 1,5mm                    |                                     | 28 x 1,5mm                    |                                     | 35 x 1,5mm                    |                                     | 42 x 1,5mm                    |                                     |
|                                  | Ø scarico<br>Ø drain  | 1" Gas (33mm)                 |                                     | 1"Gas (33mm)                  |                                     | 1"Gas (33mm)                  |                                     | 1"Gas (33mm)                  |                                     | 1"Gas (33mm)                  |                                     |

## Technical features

## Serie RCMR / RCMR Range

4 mm Passo alette / Fin spacing

| Modello<br>Model   | RCMR                             | 1350604<br>1350604ED | 2350404<br>2350404ED | 2350804<br>2350804ED | 3350604<br>3350604ED | 4350604<br>4350604ED |       |
|--|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Capacità $\Delta T$ 10 T.cella +2°C<br>Capacity $\Delta T$ 10 Room T. +2°C | kW                               | 6,40                 | 9,43                 | 11,30                | 15,40                | 20,70                |       |
| Portata d'aria<br>Air flow   | m <sup>3</sup> /h                | 2081,5               | 4078                 | 3150                 | 4978                 | 6637,5               |       |
| Freccia d'aria<br>Air throw  | m                                | 10                   | 14                   | 14                   | 15                   | 18                   |       |
| Superficie totale<br>Total surface   | m <sup>2</sup>                   | 23,90                | 24,30                | 48,60                | 52,00                | 67,60                |       |
| Peso netto<br>Net weight   | vers. standard<br>standard vers. | kg                   | 28,24                | 37,71                | 48,66                | 61,29                | 81,80 |
|  | vers. ED<br>ED vers.             | kg                   | 30,14                | 40,21                | 51,16                | 64,89                | 86,50 |

## Serie RCMR / RCMR Range

6 mm Passo alette / Fin spacing

| Modello<br>Model   | RCMR                             | 1350606<br>1350606ED | 2350406<br>2350406ED | 2350806<br>2350806ED | 3350606<br>3350606ED | 4350606<br>4350606ED |       |
|--|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Capacità $\Delta T$ 10 T.cella +2°C<br>Capacity $\Delta T$ 10 Room T. +2°C | kW                               | 5,76                 | 8,15                 | 11,20                | 15,00                | 20,10                |       |
| Portata d'aria<br>Air flow   | m <sup>3</sup> /h                | 2170,5               | 4287                 | 3656,5               | 5990                 | 7987,5               |       |
| Freccia d'aria<br>Air throw  | m                                | 11                   | 14                   | 14                   | 16                   | 21                   |       |
| Superficie totale<br>Total surface   | m <sup>2</sup>                   | 16,50                | 16,80                | 33,50                | 35,90                | 46,70                |       |
| Peso netto<br>Net weight   | vers. standard<br>standard vers. | kg                   | 26,16                | 35,60                | 46,55                | 56,76                | 75,92 |
|  | vers. ED<br>ED vers.             | kg                   | 28,06                | 38,10                | 49,05                | 60,36                | 80,62 |

## Serie RCMR / RCMR Range

8 mm Passo alette / Fin spacing

| Modello<br>Model   | RCMR                             | 1350608<br>1350608ED | 2350408<br>2350408ED | 2350808<br>2350808ED | 3350608<br>3350608ED | 4350608<br>4350608ED |       |
|--|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Capacità $\Delta T$ 10 T.cella -20°C<br>Capacity $\Delta T$ 10 Room T. -20°C | kW                               | 3,99                 | 5,84                 | 8,30                 | 10,90                | 14,90                |       |
| Portata d'aria<br>Air flow   | m <sup>3</sup> /h                | 2251,5               | 4503                 | 4162,5               | 6497                 | 8662,5               |       |
| Freccia d'aria<br>Air throw  | m                                | 11                   | 14                   | 14                   | 18                   | 23                   |       |
| Superficie totale<br>Total surface   | m <sup>2</sup>                   | 12,80                | 13,00                | 26,00                | 27,90                | 36,20                |       |
| Peso netto<br>Net weight   | vers. standard<br>standard vers. | kg                   | 25,12                | 34,54                | 44,44                | 54,51                | 72,98 |
|  | vers. ED<br>ED vers.             | kg                   | 27,02                | 37,04                | 46,94                | 58,11                | 77,68 |



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## Caratteristiche tecniche

## Technical features

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## Serie RCMR / RCMR Range

| Modello<br>Model  | RCMR            | 1350604<br>1350604ED | 2350404<br>2350404ED | 2350804<br>2350804ED | 3350604<br>3350604ED | 4350604<br>4350604ED |
|---|-----------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|   |                 | 1350606<br>1350606ED | 2350406<br>2350406ED | 2350806<br>2350806ED | 3350606<br>3350606ED | 4350606<br>4350606ED |
|   |                 | 1350608<br>1350608ED | 2350408<br>2350408ED | 2350808<br>2350808ED | 3350608<br>3350608ED | 4350608<br>4350608ED |
| Volume circuito evaporatore<br>Unit cooler volume circuit | dm <sup>3</sup> | 5,35                 | 5,26                 | 10,60                | 11,10                | 14,30                |
| Motoventilatori<br>Fan motors                             | n x Ømm         | 1x350                | 2x350                | 2x350                | 3x350                | 4x350                |
| Assorbimento motori (*)<br>Motor power consumption        | A               | 0,58                 | 1,16                 | 1,16                 | 1,74                 | 2,32                 |
|   | W               | 130                  | 260                  | 260                  | 390                  | 520                  |
| Sbrinamento elettrico (*)<br>Electrical defrost           | W               | 2250                 | 2500                 | 3900                 | 4646                 | 6060                 |

(\*) Alimentazione elettrica: motoventilatori 230V/1/50Hz, sbrinamento elettrico predisposto per 400/3/50Hz  
Power supply: fan motors 230/1/50Hz, electrical defrost present for 400/3/50Hz

## Scelta evaporatore

## Model choice

Per una corretta scelta dell'evaporatore, utilizzare le tabelle "potenza frigorifera". Nelle tabelle vengono riportate le rese frigorifere calcolate per un range di temperatura cella (Tc) che varia in funzione del passo alette della macchina. Per ogni passo alette si consiglia la seguente applicazione:

passo alette 4 mm, utilizzo ad una  $T_c \geq +2^\circ\text{C}$ ;  
passo alette 6 mm, utilizzo ad una  $T_c \geq -15^\circ\text{C}$ ;  
passo alette 8 mm, utilizzo ad una  $T_c \geq -35^\circ\text{C}$ .  
Inoltre tali rese vengono calcolate in funzione di un  $\Delta T$  (differenza tra la temperatura dell'aria in entrata e la temperatura di evaporazione del refrigerante) che va da  $5^\circ\text{C}$  a  $10^\circ\text{C}$ , utilizzando come refrigerante il gas R404A.

Impiegando altri refrigeranti, la capacità va moltiplicata per il fattore correttivo di seguito riportato:  
 $R134a = 0,91$ ;  $R507/R404A = 1$ .

I parametri per la scelta dell'evaporatore sono: la temperatura della cella, il valore  $\Delta T$  ed il carico termico. Nella colonna corrispondente alla temperatura cella desiderata, sceglieremo il modello che in corrispondenza del  $\Delta T$  richiesto, avrà una resa uguale o superiore al carico termico.

For a correct choice of the unit cooler, use the "refrigerating output" tables.

In these tables are quoted the refrigerating capacities calculated for a cold room temperature ( $T_c$ ) that changes according to the, fin spacing of the unit cooler. For each different type of fin spacing we recommend to use the following applications: 4 mm fin spacing,  $T_c \geq +2^\circ\text{C}$ ; 6 mm fin spacing,  $T_c \geq -15^\circ\text{C}$ ; 8 mm fin spacing,  $T_c \geq -35^\circ\text{C}$ . Those capacities are calculated on the base of a  $\Delta T$  value (i.e. difference between the inlet air temperature and the gas evaporating temperature) from  $5^\circ\text{C}$  to  $10^\circ\text{C}$ , by using R404A gas.

In case of a different gas in use, the capacity is to be multiplied by the relevant corrective factor:  $R134a = 0,91$ ;  $R507/R404A = 1$ .

The parameters valid for the unit cooler choice are the following ones: the cold room temperature, the  $\Delta T$  value and the heat load.

In the column corresponding to the requested cold room temperature we will choose the model that, matching the line of the requested  $\Delta T$ , will have a capacity equal or bigger than the heat load.

## RCMR1350604 RCMR1350604ED

4 mm Passo alette / Fin spacing

6 Numero ranghi / Rows number

| Tc                 | -5°C* | 0°C* | 2°C  | 4°C  | 6°C  | 8°C  | 10°C | 12°C | 15°C |
|--------------------|-------|------|------|------|------|------|------|------|------|
| ΔT 10 UR/RH 76% kW | 5,85  | 6,28 | 6,40 | 6,51 | 6,62 | 6,74 | 6,88 | 7,08 | 7,38 |
| ΔT 9 UR/RH 79% kW  | 5,37  | 5,78 | 5,88 | 5,98 | 6,07 | 6,19 | 6,35 | 6,52 | 6,78 |
| ΔT 8 UR/RH 82% kW  | 4,87  | 5,24 | 5,33 | 5,41 | 5,50 | 5,61 | 5,78 | 5,94 | 6,18 |
| ΔT 7 UR/RH 85% kW  | 4,35  | 4,69 | 4,76 | 4,81 | 4,91 | 5,04 | 5,18 | 5,33 | 5,56 |
| ΔT 6 UR/RH 89% kW  | 3,78  | 4,10 | 4,16 | 4,21 | 4,29 | 4,44 | 4,58 | 4,74 | 4,98 |
| ΔT 5 UR/RH 93% kW  | 3,25  | 3,54 | 3,59 | 3,65 | 3,76 | 3,89 | 4,03 | 4,17 | 4,38 |

## RCMR2350404 RCMR2350404ED

4 mm Passo alette / Fin spacing

4 Numero ranghi / Rows number

| Tc                 | -5°C* | 0°C* | 2°C  | 4°C  | 6°C  | 8°C  | 10°C | 12°C  | 15°C  |
|--------------------|-------|------|------|------|------|------|------|-------|-------|
| ΔT 10 UR/RH 76% kW | 8,85  | 9,33 | 9,43 | 9,52 | 9,61 | 9,76 | 9,86 | 10,10 | 10,46 |
| ΔT 9 UR/RH 79% kW  | 7,97  | 8,41 | 8,50 | 8,57 | 8,67 | 8,77 | 8,95 | 9,13  | 9,40  |
| ΔT 8 UR/RH 82% kW  | 7,16  | 7,58 | 7,64 | 7,69 | 7,81 | 7,89 | 8,09 | 8,26  | 8,52  |
| ΔT 7 UR/RH 85% kW  | 6,33  | 6,72 | 6,76 | 6,81 | 6,89 | 7,04 | 7,19 | 7,36  | 7,62  |
| ΔT 6 UR/RH 89% kW  | 5,53  | 5,89 | 5,93 | 5,99 | 6,07 | 6,25 | 6,40 | 6,57  | 6,83  |
| ΔT 5 UR/RH 93% kW  | 4,70  | 5,04 | 5,07 | 5,14 | 5,28 | 5,42 | 5,58 | 5,76  | 6,03  |

## RCMR2350804 RCMR2350804ED

4 mm Passo alette / Fin spacing

8 Numero ranghi / Rows number

| Tc                 | -5°C* | 0°C*  | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 10,30 | 11,00 | 11,30 | 11,50 | 11,70 | 11,90 | 12,10 | 12,50 | 13,10 |
| ΔT 9 UR/RH 79% kW  | 9,46  | 10,20 | 10,30 | 10,50 | 10,70 | 10,90 | 11,20 | 11,50 | 11,95 |
| ΔT 8 UR/RH 82% kW  | 8,56  | 9,21  | 9,37  | 9,52  | 9,66  | 9,86  | 10,20 | 10,50 | 10,95 |
| ΔT 7 UR/RH 85% kW  | 7,49  | 8,08  | 8,21  | 8,32  | 8,45  | 8,69  | 8,95  | 9,23  | 9,65  |
| ΔT 6 UR/RH 89% kW  | 6,59  | 7,15  | 7,26  | 7,36  | 7,51  | 7,78  | 8,03  | 8,32  | 8,76  |
| ΔT 5 UR/RH 93% kW  | 5,67  | 6,19  | 6,27  | 6,37  | 6,58  | 6,82  | 7,07  | 7,35  | 7,77  |

Tc = temperatura cella / cold room temperature

(\*) Per modelli passo alette 4mm, si consiglia un utilizzo ad una Tc ≥ +2°C - For 4mm fin spacing models we recommend to use the application Tc ≥ +2°C





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R404A

Potenza frigorifera

Refrigerating output

RIVACOLD

## RCMR3350604 RCMR3350604ED

4 mm Passo alette / Fin spacing

6 Numero ranghi / Rows number

| Tc                 | -5°C* | 0°C*  | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 14,20 | 15,10 | 15,40 | 15,60 | 15,80 | 16,00 | 16,30 | 16,80 | 17,55 |
| ΔT 9 UR/RH 79% kW  | 13,00 | 13,80 | 14,10 | 14,20 | 14,40 | 14,70 | 15,00 | 15,40 | 16,00 |
| ΔT 8 UR/RH 82% kW  | 11,70 | 12,50 | 12,70 | 12,80 | 13,00 | 13,20 | 13,60 | 14,00 | 14,60 |
| ΔT 7 UR/RH 85% kW  | 10,40 | 11,10 | 11,30 | 11,40 | 11,60 | 11,90 | 12,20 | 12,50 | 12,95 |
| ΔT 6 UR/RH 89% kW  | 9,13  | 9,83  | 9,94  | 10,10 | 10,20 | 10,60 | 10,90 | 11,20 | 11,65 |
| ΔT 5 UR/RH 93% kW  | 7,81  | 8,47  | 8,55  | 8,68  | 8,93  | 9,22  | 9,54  | 9,87  | 10,37 |

## RCMR4350604 RCMR4350604ED

4 mm Passo alette / Fin spacing

6 Numero ranghi / Rows number

| Tc                 | -5°C* | 0°C*  | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 19,30 | 20,40 | 20,70 | 21,00 | 21,20 | 21,50 | 21,90 | 22,40 | 23,15 |
| ΔT 9 UR/RH 79% kW  | 17,60 | 18,70 | 18,90 | 19,10 | 19,30 | 19,70 | 20,10 | 20,60 | 21,35 |
| ΔT 8 UR/RH 82% kW  | 15,80 | 16,80 | 17,00 | 17,20 | 17,40 | 17,70 | 18,20 | 18,70 | 19,45 |
| ΔT 7 UR/RH 85% kW  | 14,00 | 15,00 | 15,10 | 15,20 | 15,50 | 15,80 | 16,20 | 16,70 | 17,45 |
| ΔT 6 UR/RH 89% kW  | 12,30 | 13,20 | 13,30 | 13,40 | 13,70 | 14,10 | 14,50 | 14,90 | 15,50 |
| ΔT 5 UR/RH 93% kW  | 10,50 | 11,30 | 11,40 | 11,60 | 11,90 | 12,30 | 12,70 | 13,10 | 13,70 |

Tc = temperatura cella / cold room temperature

(\*) Per modelli passo alette 4mm, si consiglia un utilizzo ad una Tc ≥ +2°C - For 4mm fin spacing models we recommend to use the application Tc ≥ +2°C

## RCMR1350606 RCMR1350606ED

6 mm Passo alette / Fin spacing

6 Numero ranghi / Rows number

| Tc                 | -20°C* | -15°C | -10°C | -5°C | 0°C  | 2°C  | 4°C  | 6°C  | 8°C  | 10°C | 12°C | 15°C |
|--------------------|--------|-------|-------|------|------|------|------|------|------|------|------|------|
| ΔT 10 UR/RH 76% kW | 4,37   | 4,67  | 4,97  | 5,29 | 5,66 | 5,76 | 5,86 | 5,94 | 6,05 | 6,17 | 6,34 | 6,60 |
| ΔT 9 UR/RH 79% kW  | 4,02   | 4,29  | 4,52  | 4,81 | 5,16 | 5,24 | 5,32 | 5,40 | 5,50 | 5,64 | 5,79 | 6,02 |
| ΔT 8 UR/RH 82% kW  | 3,66   | 3,86  | 4,09  | 4,35 | 4,67 | 4,74 | 4,81 | 4,88 | 4,97 | 5,12 | 5,27 | 5,50 |
| ΔT 7 UR/RH 85% kW  | 3,27   | 3,44  | 3,64  | 3,87 | 4,17 | 4,22 | 4,27 | 4,35 | 4,46 | 4,59 | 4,72 | 4,92 |
| ΔT 6 UR/RH 89% kW  | 2,85   | 3,01  | 3,19  | 3,41 | 3,68 | 3,73 | 3,78 | 3,85 | 3,98 | 4,11 | 4,24 | 4,44 |
| ΔT 5 UR/RH 93% kW  | 2,43   | 2,56  | 2,72  | 2,92 | 3,17 | 3,22 | 3,27 | 3,37 | 3,48 | 3,61 | 3,74 | 3,94 |

## RCMR2350406 RCMR2350406ED

6 mm Passo alette / Fin spacing

4 Numero ranghi / Rows number

| Tc                 | -20°C* | -15°C | -10°C | -5°C | 0°C  | 2°C  | 4°C  | 6°C  | 8°C  | 10°C | 12°C | 15°C |
|--------------------|--------|-------|-------|------|------|------|------|------|------|------|------|------|
| ΔT 10 UR/RH 76% kW | 6,71   | 6,99  | 7,30  | 7,65 | 8,06 | 8,15 | 8,23 | 8,30 | 8,44 | 8,52 | 8,72 | 9,02 |
| ΔT 9 UR/RH 79% kW  | 6,09   | 6,36  | 6,64  | 6,96 | 7,35 | 7,42 | 7,48 | 7,57 | 7,66 | 7,82 | 7,98 | 8,22 |
| ΔT 8 UR/RH 82% kW  | 5,49   | 5,71  | 5,96  | 6,25 | 6,61 | 6,67 | 6,72 | 6,81 | 6,89 | 7,07 | 7,22 | 7,45 |
| ΔT 7 UR/RH 85% kW  | 4,84   | 5,04  | 5,26  | 5,52 | 5,86 | 5,90 | 5,94 | 6,02 | 6,15 | 6,29 | 6,43 | 6,64 |
| ΔT 6 UR/RH 89% kW  | 4,20   | 4,36  | 4,56  | 4,81 | 5,14 | 5,17 | 5,23 | 5,30 | 5,45 | 5,59 | 5,74 | 5,97 |
| ΔT 5 UR/RH 93% kW  | 3,54   | 3,68  | 3,86  | 4,09 | 4,40 | 4,43 | 4,49 | 4,61 | 4,74 | 4,88 | 5,03 | 5,26 |

## RCMR2350806 RCMR2350806ED

6 mm Passo alette / Fin spacing

8 Numero ranghi / Rows number

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 8,71   | 9,21  | 9,65  | 10,30 | 11,00 | 11,20 | 11,30 | 11,50 | 11,70 | 11,90 | 12,30 | 12,90 |
| ΔT 9 UR/RH 79% kW  | 8,04   | 8,46  | 8,84  | 9,39  | 10,10 | 10,20 | 10,40 | 10,50 | 10,70 | 11,00 | 11,30 | 11,75 |
| ΔT 8 UR/RH 82% kW  | 7,32   | 7,56  | 8,00  | 8,50  | 9,12  | 9,26  | 9,39  | 9,53  | 9,71  | 10,00 | 10,30 | 10,75 |
| ΔT 7 UR/RH 85% kW  | 6,46   | 6,73  | 7,11  | 7,57  | 8,12  | 8,25  | 8,35  | 8,48  | 8,71  | 8,96  | 9,23  | 9,64  |
| ΔT 6 UR/RH 89% kW  | 5,66   | 5,89  | 6,23  | 6,65  | 7,19  | 7,28  | 7,38  | 7,52  | 7,78  | 8,03  | 8,30  | 8,71  |
| ΔT 5 UR/RH 93% kW  | 4,76   | 5,01  | 5,30  | 5,69  | 6,20  | 6,28  | 6,37  | 6,58  | 6,81  | 7,06  | 7,32  | 7,71  |

Tc = temperatura cella / cold room temperature

(\*) Per modelli passo alette 6mm, si consiglia un utilizzo ad una Tc ≥ -15°C - For 6mm fin spacing models we recommend to use the application Tc ≥ -15°C



Ø 350

R404A

Potenza frigorifera

Refrigerating output

RIVACOLD

## RCMR3350606 RCMR3350606ED

6 mm Passo alette / Fin spacing

6 Numero ranghi / Rows number

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 11,80  | 12,40 | 13,10 | 13,90 | 14,70 | 15,00 | 15,20 | 15,30 | 15,60 | 15,80 | 16,20 | 16,80 |
| ΔT 9 UR/RH 79% kW  | 10,70  | 11,40 | 12,00 | 12,70 | 13,50 | 13,70 | 13,80 | 14,00 | 14,20 | 14,60 | 14,90 | 15,35 |
| ΔT 8 UR/RH 82% kW  | 9,74   | 10,30 | 10,80 | 11,40 | 12,20 | 12,30 | 12,50 | 12,70 | 12,80 | 13,20 | 13,50 | 13,95 |
| ΔT 7 UR/RH 85% kW  | 8,68   | 9,12  | 9,59  | 10,10 | 10,80 | 11,00 | 11,10 | 11,20 | 11,50 | 11,80 | 12,10 | 12,55 |
| ΔT 6 UR/RH 89% kW  | 7,57   | 7,95  | 8,37  | 8,88  | 9,54  | 9,64  | 9,75  | 9,92  | 10,20 | 10,50 | 10,80 | 11,25 |
| ΔT 5 UR/RH 93% kW  | 6,42   | 6,73  | 7,11  | 7,58  | 8,21  | 8,28  | 8,40  | 8,64  | 8,92  | 9,22  | 9,53  | 10,00 |

## RCMR4350606 RCMR4350606ED

6 mm Passo alette / Fin spacing

6 Numero ranghi / Rows number

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 16,30  | 17,10 | 17,90 | 18,80 | 19,90 | 20,10 | 20,40 | 20,60 | 20,90 | 21,20 | 21,70 | 22,45 |
| ΔT 9 UR/RH 79% kW  | 14,90  | 15,60 | 16,30 | 17,10 | 18,10 | 18,40 | 18,50 | 18,70 | 19,00 | 19,50 | 19,90 | 20,50 |
| ΔT 8 UR/RH 82% kW  | 13,40  | 14,00 | 14,60 | 15,40 | 16,30 | 16,50 | 16,70 | 16,90 | 17,10 | 17,60 | 18,00 | 18,60 |
| ΔT 7 UR/RH 85% kW  | 11,90  | 12,40 | 12,80 | 13,40 | 14,30 | 14,40 | 14,60 | 14,80 | 15,10 | 15,50 | 15,90 | 16,50 |
| ΔT 6 UR/RH 89% kW  | 10,30  | 10,60 | 11,10 | 11,70 | 12,60 | 12,70 | 12,80 | 13,00 | 13,40 | 13,80 | 14,20 | 14,80 |
| ΔT 5 UR/RH 93% kW  | 8,70   | 8,95  | 9,39  | 10,00 | 10,80 | 10,90 | 11,00 | 11,30 | 11,70 | 12,10 | 12,50 | 13,10 |

Tc = temperatura cella / cold room temperature

(\*) Per modelli passo alette 6mm, si consiglia un utilizzo ad una Tc ≥ -15°C - For 6mm fin spacing models we recommend to use the application Tc ≥ -15°C

## RCMR1350608 RCMR1350608ED

6 mm Passo alette / Fin spacing

8 Numero ranghi / Rows number

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C | 0°C  | 2°C  | 4°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| ΔT 10 UR/RH 76% kW | 2,62  | 2,99  | 3,37  | 3,70  | 3,99  | 4,24  | 4,45  | 4,71 | 5,02 | 5,09 | 5,17 |
| ΔT 9 UR/RH 79% kW  | 2,47  | 2,81  | 3,14  | 3,43  | 3,67  | 3,86  | 4,07  | 4,31 | 4,59 | 4,66 | 4,72 |
| ΔT 8 UR/RH 82% kW  | 2,31  | 2,61  | 2,89  | 3,13  | 3,31  | 3,48  | 3,67  | 3,89 | 4,15 | 4,21 | 4,26 |
| ΔT 7 UR/RH 85% kW  | 2,12  | 2,38  | 2,61  | 2,79  | 2,95  | 3,09  | 3,26  | 3,45 | 3,70 | 3,74 | 3,79 |
| ΔT 6 UR/RH 89% kW  | 1,91  | 2,12  | 2,30  | 2,45  | 2,57  | 2,70  | 2,84  | 3,03 | 3,26 | 3,30 | 3,34 |
| ΔT 5 UR/RH 93% kW  | 1,67  | 1,84  | 1,97  | 2,08  | 2,18  | 2,29  | 2,42  | 2,59 | 2,81 | 2,84 | 2,89 |

## RCMR2350408 RCMR2350408ED

8 mm Passo alette / Fin spacing

4 Numero ranghi / Rows number

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C | 0°C  | 2°C  | 4°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| ΔT 10 UR/RH 76% kW | 4,42  | 4,85  | 5,25  | 5,58  | 5,84  | 6,07  | 6,31  | 6,58 | 6,92 | 6,99 | 7,05 |
| ΔT 9 UR/RH 79% kW  | 4,11  | 4,49  | 4,84  | 5,10  | 5,31  | 5,52  | 5,73  | 5,98 | 6,30 | 6,36 | 6,41 |
| ΔT 8 UR/RH 82% kW  | 3,79  | 4,10  | 4,38  | 4,59  | 4,77  | 4,94  | 5,13  | 5,37 | 5,66 | 5,72 | 5,75 |
| ΔT 7 UR/RH 85% kW  | 3,42  | 3,68  | 3,90  | 4,06  | 4,20  | 4,35  | 4,52  | 4,74 | 5,02 | 5,05 | 5,09 |
| ΔT 6 UR/RH 89% kW  | 3,02  | 3,23  | 3,39  | 3,52  | 3,63  | 3,74  | 3,89  | 4,10 | 4,37 | 4,40 | 4,45 |
| ΔT 5 UR/RH 93% kW  | 2,59  | 2,74  | 2,86  | 2,95  | 3,03  | 3,14  | 3,29  | 3,48 | 3,74 | 3,77 | 3,82 |

## RCMR2350808 RCMR2350808ED

8 mm Passo alette / Fin spacing

8 Numero ranghi / Rows number

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C | 0°C  | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|
| ΔT 10 UR/RH 76% kW | 5,43  | 6,19  | 6,98  | 7,70  | 8,30  | 8,82  | 9,33  | 9,87 | 10,5 | 10,70 | 10,80 |
| ΔT 9 UR/RH 79% kW  | 5,12  | 5,83  | 6,52  | 7,12  | 7,63  | 8,08  | 8,52  | 9,02 | 9,63 | 9,78  | 9,90  |
| ΔT 8 UR/RH 82% kW  | 4,79  | 5,42  | 6,01  | 6,50  | 6,93  | 7,30  | 7,70  | 8,15 | 8,70 | 8,83  | 8,94  |
| ΔT 7 UR/RH 85% kW  | 4,41  | 4,95  | 5,43  | 5,84  | 6,18  | 6,49  | 6,83  | 7,24 | 7,75 | 7,85  | 7,94  |
| ΔT 6 UR/RH 89% kW  | 3,98  | 4,43  | 4,81  | 5,13  | 5,40  | 5,67  | 5,97  | 6,36 | 6,85 | 6,93  | 7,01  |
| ΔT 5 UR/RH 93% kW  | 3,50  | 3,84  | 4,13  | 4,37  | 4,58  | 4,74  | 5,02  | 5,37 | 5,83 | 5,89  | 5,98  |

Tc = temperatura cella / cold room temperature



Ø 350

R404A

Potenza frigorifera

Refrigerating output

RIVACOLD

## RCMR3350608 RCMR3350608ED

8 mm Passo alette / Fin spacing

6 Numero ranghi / Rows number

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 7,49  | 8,44  | 9,40  | 10,20 | 10,90 | 11,50 | 12,00 | 12,60 | 13,30 | 13,50 | 13,60 |
| ΔT 9 UR/RH 79% kW  | 7,03  | 7,90  | 8,73  | 9,44  | 10,00 | 10,50 | 10,90 | 11,50 | 12,20 | 12,30 | 12,40 |
| ΔT 8 UR/RH 82% kW  | 6,53  | 7,30  | 7,99  | 8,56  | 9,04  | 9,36  | 9,80  | 10,30 | 11,00 | 11,10 | 11,20 |
| ΔT 7 UR/RH 85% kW  | 5,98  | 6,63  | 7,20  | 7,64  | 8,03  | 8,29  | 8,67  | 9,15  | 9,73  | 9,83  | 9,92  |
| ΔT 6 UR/RH 89% kW  | 5,35  | 5,88  | 6,33  | 6,68  | 6,98  | 7,20  | 7,56  | 8,00  | 8,56  | 8,65  | 8,75  |
| ΔT 5 UR/RH 93% kW  | 4,67  | 5,06  | 5,39  | 5,65  | 5,84  | 6,09  | 6,41  | 6,82  | 7,36  | 7,43  | 7,53  |

## RCMR4350608 RCMR4350608ED

8 mm Passo alette / Fin spacing

6 Numero ranghi / Rows number

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 11,20 | 12,30 | 13,40 | 14,30 | 14,90 | 15,60 | 16,20 | 16,90 | 17,80 | 18,10 | 18,20 |
| ΔT 9 UR/RH 79% kW  | 10,40 | 11,40 | 12,40 | 13,10 | 13,60 | 14,10 | 14,70 | 15,40 | 16,30 | 16,50 | 16,60 |
| ΔT 8 UR/RH 82% kW  | 9,61  | 10,50 | 11,30 | 11,70 | 12,20 | 12,70 | 13,20 | 13,80 | 14,70 | 14,80 | 14,90 |
| ΔT 7 UR/RH 85% kW  | 8,70  | 9,44  | 10,10 | 10,40 | 10,80 | 11,20 | 11,60 | 12,20 | 13,00 | 13,10 | 13,20 |
| ΔT 6 UR/RH 89% kW  | 7,72  | 8,29  | 8,68  | 9,02  | 9,35  | 9,70  | 10,10 | 10,70 | 11,40 | 11,50 | 11,60 |
| ΔT 5 UR/RH 93% kW  | 6,65  | 7,01  | 7,34  | 7,60  | 7,85  | 8,16  | 8,56  | 9,09  | 9,78  | 9,86  | 10,00 |

Tc = temperatura cella / cold room temperature

**Tabella / Table**

(A) RCMR1450804  
RCMR1450804ED  
RCMR1450806  
RCMR1450806ED  
RCMR1450808  
RCMR1450808ED



(A)

(B) RCMR2450604  
RCMR2450604ED  
RCMR2450804  
RCMR2450804ED  
RCMR2450606  
RCMR2450606ED  
RCMR2450806  
RCMR2450806ED  
RCMR2450608  
RCMR2450608ED  
RCMR2450808  
RCMR2450808ED



(B)

(C) RCMR3450604  
RCMR3450604ED  
RCMR3450804  
RCMR3450804ED  
RCMR3450606  
RCMR3450606ED  
RCMR3450806  
RCMR3450806ED  
RCMR3450608  
RCMR3450608ED  
RCMR3450808  
RCMR3450808ED



(C)

(D) RCMR4450604  
RCMR4450604ED  
RCMR4450804  
RCMR4450804ED  
RCMR4450606  
RCMR4450606ED  
RCMR4450806  
RCMR4450806ED  
RCMR4450608  
RCMR4450608ED  
RCMR4450808  
RCMR4450808ED



(D)

Ø 450

## Aeroevaporatori cubici a soffitto RCMR tubo rigato

RIVACOLD

### RCMR Ceiling cubic unit coolers rifled tubes

#### Caratteristiche generali

Gli aeroevaporatori della serie RCMR Ø450 sono stati ideati per essere installati in celle frigorifere per la conservazione di prodotti freschi e congelati.

Questa gamma completa le applicazioni della gamma RC, RCS ed RCMR Ø350 pur mantenendo dimensioni compatte, arriva a coprire rese maggiori adatte per applicazioni su celle di media grandezza.

La gamma RCMR Ø450 è disponibile in diverse combinazioni di passi alette e ranghi opportunamente dimensionati a seconda dell'applicazione richiesta.

Tutti i modelli sono realizzati con geometria 37,5 x 32,5 e tubo da 12 mm rigato.

La serie ED, fornita di resistenze di sbrinamento già montate, è adatta per essere utilizzata alle basse temperature.

Il funzionamento in modalità aspirante del motoventilatore, evita la formazione di condensa sulla ventola.

#### General features

RCMR Ø450 range unit coolers have been designed to be installed inside cold rooms suited for fresh and frozen goods storage. This range completes the RC, RCS and RCMR Ø350 range applications and though having extremely compact dimensions, reaches bigger capacities suited for medium size cold rooms.

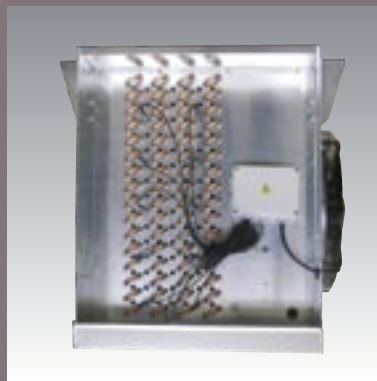
RCMR Ø450 range is available in different combinations of fin spacing dimensions and tube rows properly sized according to the needed applications. All models are built with a geometry of 37,5 x 32,5 and 12mm rifled tube.

The ED version is supplied with mounted defrosting heaters and is suitable for being used at low temperature applications.

The fan motors operate in the draw through mode and prevent the condensate forming on the fan.

#### Optional - *Optional items*

- Batteria verniciata  
*Varnished coil*
- Resistenza per il tubo di scarico con alimentazione elettrica 220V/1/50Hz (per alimentazioni differenti consultare il nostro ufficio tecnico).  
*Drainage pipe heater of 220V/1/50Hz voltages (for different voltages please contact our technical dept).*



Lato collegamento elettrico.  
*Electrical connection side.*



Lato collegamento frigorifero.  
*Pipe connection side.*

## Caratteristiche costruttive



### Manufacturing features

#### Batteria

La batteria è costituita da alette in alluminio, tubo in rame da 12mm rigato e geometria 37,5 x 32,5.

Gli RCMR Ø450 si suddividono in tre gruppi, ognuno specifico a seconda della temperatura cella richiesta (Tc):

passo alette 4mm per Tc da -5°C a +15°C; passo alette 6mm per Tc da -20°C a +15°C; passo alette 8mm per Tc da -40°C a +4°C

La batteria viene collaudata con azoto da una pressione di 25 bar.

#### Motoventilatore

Il motoventilatore utilizzato ha le seguenti caratteristiche:

- costruito nel rispetto delle norme EN 60335-1, con protezione termica interna
- diametro ventola 450 mm, rotore esterno
- alimentazione 230/1/50-60Hz
- grado di protezione IP54
- classe di isolamento F
- temperatura di funzionamento da -40°C a +65°C
- esecuzione elettrica conforme alla direttiva 2006/95/CE Bassa Tensione

#### Carenatura

È realizzata in alluminio. Le soluzioni costruttive adottate conferiscono robustezza alla carenatura e garantiscono l'assenza di vibrazioni durante il funzionamento. Le viti, le rondelle e i dadi sono in acciaio inossidabile.

#### Coil

The coil is made in aluminum fins, 12mm rifled copper tube and a geometry of 37,5 x 32,5.

RCMR Ø450 unit coolers can be classified in three groups according to the needed cold room temperature (Tc): 4mm fin spacing for a Tc from -5°C to +15°C; 6mm fin spacing for a Tc from -20°C to +15°C; 8mm fin spacing for a Tc from -40°C to +4°C.

The coils are tested with nitrogen at a pressure of 25 bar.

#### Fan motors

The fan motor models in use has the following features:

- manufactured following EN 60335-1 laws, with internal thermal protection
- fan diameter 450mm, external rotor
- power supply 230/1/50-60Hz
- IP54 protection rate
- F insulation class
- operating temperature from -40°C to +65°C
- electrics made in conformity with 2006/95/CE low tension directive

#### Housing

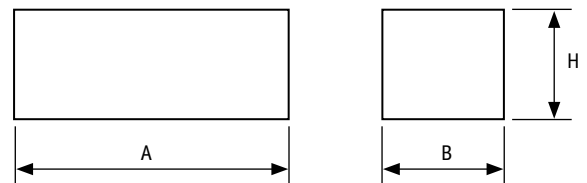
The housing is made of aluminium. The manufacturing solutions used give the housing strength and guarantee the absence of vibrations during the functioning. Screws, washers and nuts are made of stainless steel.

## Dimensione imballi

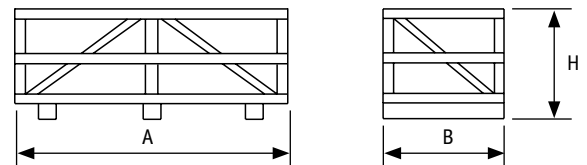
### Packages dimensions

| Codice<br>Code | Dimensioni imballo evaporatore<br>Evaporator package dimensions |         |         |                      | Disegno<br>Drawing |
|----------------|---|---------|---------|----------------------|--------------------|
|                | A<br>mm   | B<br>mm | H<br>mm | Peso<br>Weight<br>kg |                    |
| RCMR1450....   | 1240  | 875     | 840     | 20,2                 | 1                  |
| RCMR2450....   | 1790  | 875     | 840     | 22,8                 | 1                  |
| RCMR3450....   | 2340  | 930     | 1010    | 68                   | 2                  |
| RCMR4450....   | 2840  | 930     | 1010    | 80                   | 2                  |

Disegno 1  
Drawing 1



Disegno 2  
Drawing 2





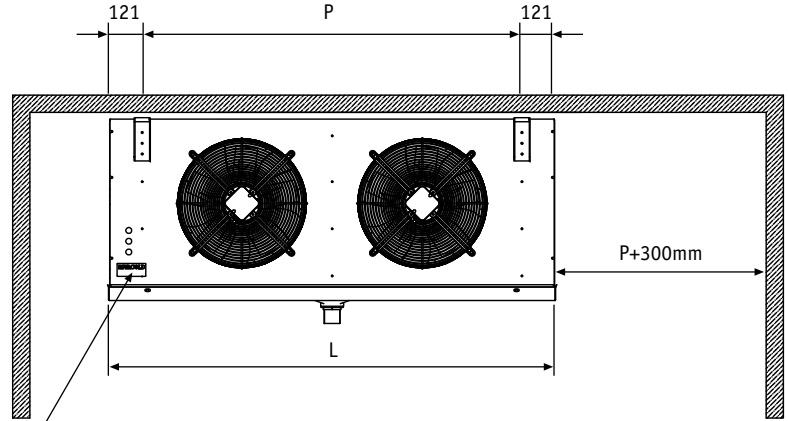
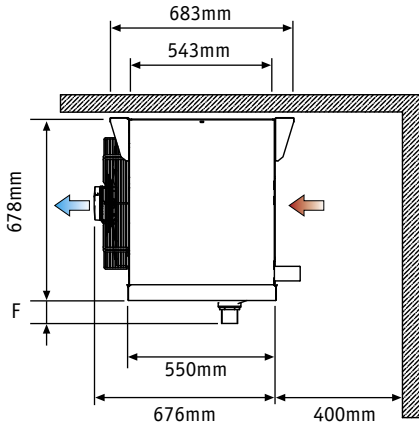


Ø 450

Caratteristiche costruttive

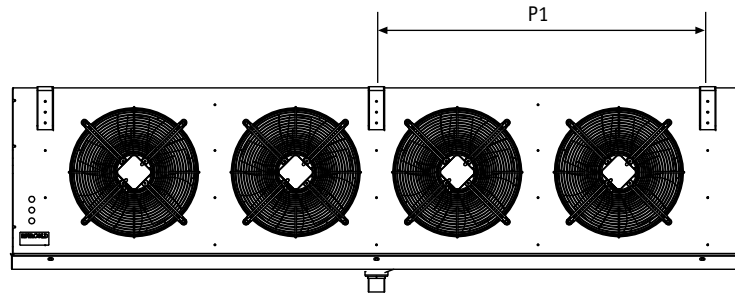
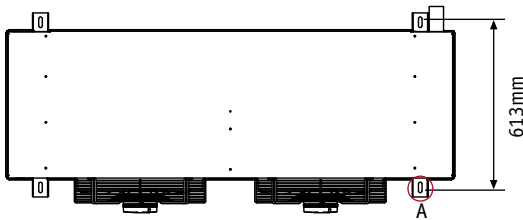
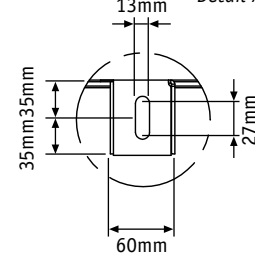
Manufacturing features

RIVACOLD



Etichetta di riconoscimento  
Identifying label

Dettaglio A  
Detail A



Serie RCMR / RCMR Range

| Modello<br>Model                 | RCMR                  | 1450804<br>1450806<br>1450808 | 1450804ED<br>1450806ED<br>1450808ED | 2450604<br>2450606<br>2450608 | 2450604ED<br>2450606ED<br>2450608ED | 3450604<br>3450606<br>3450608 | 3450604ED<br>3450606ED<br>3450608ED | 4450604<br>4450606<br>4450608 | 4450604ED<br>4450606ED<br>4450608ED | 4450804<br>4450806<br>4450808 | 4450804ED<br>4450806ED<br>4450808ED |
|----------------------------------|-----------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|
| Dimensioni<br>Dimensions<br>(mm) | P                     | 860                           |                                     | 1410                          |                                     | 1960                          |                                     | 2460                          |                                     | 2460                          |                                     |
|                                  | P1                    | -                             |                                     | -                             |                                     | -                             |                                     | 1230                          |                                     | 1230                          |                                     |
|                                  | L                     | 1118                          |                                     | 1668                          |                                     | 2218                          |                                     | 2718                          |                                     | 2718                          |                                     |
|                                  | F                     | 50                            |                                     | 86                            |                                     | 86                            |                                     | 86                            |                                     | 86                            |                                     |
| Attacchi<br>Connections          | Ø ingresso<br>Ø inlet | 22 x 1mm                      |                                     | 28 x 1,5mm                    |                                     | 35 x 1,5mm                    |                                     | 35 x 1,5mm                    |                                     | 35 x 1,5mm                    |                                     |
|                                  | Ø uscita<br>Ø outlet  | 35 x 1,5mm                    |                                     | 54 x 2mm                      |                                     | 54 x 2mm                      |                                     | 54 x 2mm                      |                                     | 67 x 2,5mm                    |                                     |
|                                  | Ø scarico<br>Ø drain  | 1" Gas (33mm)                 |                                     | 2" Gas                        |                                     | 2" Gas                        |                                     | 2" Gas                        |                                     | 2" Gas                        |                                     |

## Manufacturing features

## Serie RCMR / RCMR Range

4 mm Passo alette / Fin spacing

| Modello<br>Model   | RCMR                             | 1450804<br>1450804ED | 2450604<br>2450604ED | 2450804<br>2450804ED | 3450604<br>3450604ED | 3450804<br>3450804ED | 4450604<br>4450604ED | 4450804<br>4450804ED |       |
|--|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Capacità $\Delta T$ 10 T.cella +2°C<br>Capacity $\Delta T$ 10 Room T. +2°C | kW                               | 14,84                | 26,68                | 28,14                | 39,02                | 39,40                | 48,10                | 53,30                |       |
| Portata d'aria<br>Air flow   | m <sup>3</sup> /h                | 4767,5               | 9535,0               | 8767,5               | 14014,5              | 12575,5              | 18302,5              | 16383,7              |       |
| Freccia d'aria<br>Air throw  | m                                | 20                   | 23                   | 22                   | 25                   | 25                   | 27                   | 26                   |       |
| Superficie totale<br>Total surface   | m <sup>2</sup>                   | 59,2                 | 74,9                 | 99,9                 | 105,0                | 141,0                | 133,0                | 178,0                |       |
| Peso netto<br>Net weight   | vers. standard<br>standard vers. | kg                   | 63,1                 | 88,5                 | 101                  | 123,4                | 139,1                | 151,2                | 178,5 |
|  | vers. ED<br>ED vers.             | kg                   | 66,3                 | 98,3                 | 110,8                | 136,3                | 152,0                | 161,8                | 187,1 |

## Serie RCMR / RCMR Range

6 mm Passo alette / Fin spacing

| Modello<br>Model   | RCMR                             | 1450806<br>1450806ED | 2450606<br>2450606ED | 2450806<br>2450806ED | 3450606<br>3450606ED | 3450806<br>3450806ED | 4450606<br>4450606ED | 4450806<br>4450806ED |       |
|--|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Capacità $\Delta T$ 10 T.cella +2°C<br>Capacity $\Delta T$ 10 Room T. +2°C | kW                               | 14,52                | 25,32                | 27,58                | 36,64                | 39,14                | 44,98                | 52,22                |       |
| Portata d'aria<br>Air flow   | m <sup>3</sup> /h                | 5439,0               | 10878,0              | 9919,0               | 16029,5              | 14590,5              | 20605,0              | 19070                |       |
| Freccia d'aria<br>Air throw  | m                                | 21                   | 24                   | 23                   | 27                   | 26                   | 29                   | 28                   |       |
| Superficie totale<br>Total surface   | m <sup>2</sup>                   | 40,8                 | 51,7                 | 68,9                 | 72,7                 | 97,0                 | 91,9                 | 123,0                |       |
| Peso netto<br>Net weight   | vers. standard<br>standard vers. | kg                   | 57,9                 | 82,0                 | 92,3                 | 114,2                | 126,9                | 141,6                | 163,0 |
|  | vers. ED<br>ED vers.             | kg                   | 61,1                 | 91,8                 | 102,1                | 127,1                | 139,8                | 150,2                | 171,6 |

## Serie RCMR / RCMR Range

8 mm Passo alette / Fin spacing

| Modello<br>Model   | RCMR                             | 1450808<br>1450808ED | 2450608<br>24506048ED | 2450808<br>2450808ED | 3450608<br>3450608ED | 3450808<br>3450808ED | 4450608<br>4450608ED | 4450808<br>4450808ED |       |
|--|----------------------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Capacità $\Delta T$ 10 T.cella -20°C<br>Capacity $\Delta T$ 10 Room T. -20°C | kW                               | 9,44                 | 17,80                 | 19,00                | 26,40                | 26,30                | 31,00                | 37,20                |       |
| Portata d'aria<br>Air flow   | m <sup>3</sup> /h                | 5823,0               | 11645,5               | 11070,0              | 17180,5              | 16029,5              | 22140,0              | 20605,0              |       |
| Freccia d'aria<br>Air throw  | m                                | 21                   | 24                    | 23                   | 27                   | 26                   | 29                   | 28                   |       |
| Superficie totale<br>Total surface   | m <sup>2</sup>                   | 31,7                 | 40,1                  | 53,5                 | 56,5                 | 75,3                 | 71,4                 | 95,2                 |       |
| Peso netto<br>Net weight   | vers. standard<br>standard vers. | kg                   | 55,3                  | 78,7                 | 88,0                 | 109,6                | 120,8                | 135,8                | 155,3 |
|  | vers. ED<br>ED vers.             | kg                   | 58,5                  | 88,5                 | 97,8                 | 122,5                | 133,7                | 144,4                | 163,9 |



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## Caratteristiche tecniche

## Technical features

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## Serie RCMR / RCMR Range

| Modello<br>Model  | RCMR            | 1450804   | 2450604   | 2450804   | 3450604   | 3450804   | 4450604   | 4450804   |
|---|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|   |                 | 1450804ED | 2450604ED | 2450804ED | 3450604ED | 3450804ED | 4450604ED | 4450804ED |
|   |                 | 1450806   | 2450606   | 2450806   | 3450606   | 3450806   | 4450606   | 4450806   |
|   |                 | 1450806ED | 2450606ED | 2450806ED | 3450606ED | 3450806ED | 4450606ED | 4450806ED |
|   |                 | 1450808   | 2450608   | 2450808   | 3450608   | 3450808   | 4450608   | 4450808   |
|   |                 | 1450808ED | 2450608ED | 2450808ED | 3450608ED | 3450808ED | 4450608ED | 4450808ED |
| Volume circuito evaporatore<br>Unit cooler volume circuit | dm <sup>3</sup> | 13,1      | 16,1      | 21,5      | 22,3      | 29,4      | 28,1      | 37,4      |
| Motoventilatori<br>Fan motors                             | n x Ømm         | 1x450     | 2x450     | 2x450     | 3x450     | 3x450     | 4x450     | 4x450     |
| Assorbimento motori (*)<br>Motor power consumption        | A               | 2,36      | 4,72      | 4,72      | 7,08      | 7,08      | 9,44      | 9,44      |
|   | W               | 490       | 980       | 980       | 1470      | 1470      | 1960      | 1960      |
| Sbrinamento elettrico (*)<br>Electrical defrost           | W               | 3960      | 6600      | 6600      | 8700      | 8700      | 9240      | 9240      |

(\*) Alimentazione elettrica: motoventilatori 230V/1/50Hz, sbrinamento elettrico predisposto per 400V/3/50Hz  
Power supply: fan motors 230V/1/50Hz, electrical defrost present for 400V/3/50Hz

## Scelta evaporatore

## Model choice

Per una corretta scelta dell'evaporatore, utilizzare le tabelle "potenza frigorifera". Nelle tabelle vengono riportate le rese frigorifere calcolate per un range di temperatura cella (Tc) che varia in funzione del passo alette della macchina. Per ogni passo alette si consiglia la seguente applicazione:

passo alette 4 mm, utilizzo ad una Tc ≥ +2°C;  
passo alette 6 mm, utilizzo ad una Tc ≥ -15°C;  
passo alette 8 mm, utilizzo ad una Tc ≥ -35°C.  
Inoltre tali rese vengono calcolate in funzione di un ΔT (differenza tra la temperatura dell'aria in entrata e la temperatura di evaporazione del refrigerante) che va da 5°C a 10°C, utilizzando come refrigerante il gas R404A.

Impiegando altri refrigeranti, la capacità va moltiplicata per il fattore correttivo di seguito riportato: R134a = 0,91; R507/R404A = 1.

I parametri per la scelta dell'evaporatore sono: la temperatura della cella, il valore ΔT ed il carico termico. Nella colonna corrispondente alla temperatura cella desiderata, sceglieremo il modello che in corrispondenza del ΔT richiesto, avrà una resa uguale o superiore al carico termico.

For a correct choice of the unit cooler, use the "refrigerating output" tables.

In these tables are quoted the refrigerating capacities calculated for a cold room temperature (Tc) that changes according to the, fin spacing of the unit cooler. For each different type of fin spacing we recommend to use the following applications: 4 mm fin spacing, Tc ≥ +2°C; 6 mm fin spacing, Tc ≥ -15°C; 8 mm fin spacing, Tc ≥ -35°C. Those capacities are calculated on the base of a ΔT value (i.e. difference between the inlet air temperature and the gas evaporating temperature) from 5°C to 10°C, by using R404A gas.

In case of a different gas in use, the capacity is to be multiplied by the relevant corrective factor: R134a = 0,91; R507/R404A = 1.

The parameters valid for the unit cooler choice are the following ones: the cold room temperature, the ΔT value and the heat load.

In the column corresponding to the requested cold room temperature we will choose the model that, matching the line of the requested ΔT, will have a capacity equal or bigger than the heat load.

## RCMR1450804 RCMR1450804ED

4 mm Passo alette / Fin spacing

| Tc                 | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 13,30 | 14,50 | 14,84 | 15,18 | 15,52 | 15,86 | 16,20 | 16,80 | 17,70 |
| ΔT 9 UR/RH 79% kW  | 12,30 | 13,40 | 13,74 | 14,08 | 14,42 | 14,76 | 15,10 | 15,50 | 16,10 |
| ΔT 8 UR/RH 82% kW  | 11,30 | 12,30 | 12,60 | 12,90 | 13,20 | 13,50 | 13,80 | 14,20 | 14,80 |
| ΔT 7 UR/RH 85% kW  | 10,10 | 11,00 | 11,28 | 11,56 | 11,84 | 12,12 | 12,40 | 12,80 | 13,40 |
| ΔT 6 UR/RH 89% kW  | 9,00  | 9,84  | 10,11 | 10,38 | 10,66 | 10,93 | 11,20 | 11,60 | 12,20 |
| ΔT 5 UR/RH 93% kW  | 7,80  | 8,56  | 8,82  | 9,08  | 9,35  | 9,61  | 9,87  | 10,20 | 10,70 |

## RCMR2450604 RCMR2450604ED

4 mm Passo alette / Fin spacing

| Tc                 | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 24,80 | 26,30 | 26,68 | 27,06 | 27,44 | 27,82 | 28,20 | 28,90 | 29,95 |
| ΔT 9 UR/RH 79% kW  | 22,70 | 24,10 | 24,46 | 24,82 | 25,18 | 25,54 | 25,90 | 26,50 | 27,40 |
| ΔT 8 UR/RH 82% kW  | 20,40 | 21,80 | 22,14 | 22,48 | 22,82 | 23,16 | 23,50 | 24,10 | 25,00 |
| ΔT 7 UR/RH 85% kW  | 18,10 | 19,30 | 19,62 | 19,94 | 20,26 | 20,58 | 20,90 | 21,50 | 22,40 |
| ΔT 6 UR/RH 89% kW  | 15,90 | 17,00 | 17,34 | 17,68 | 18,02 | 18,36 | 18,70 | 19,20 | 19,95 |
| ΔT 5 UR/RH 93% kW  | 13,50 | 14,60 | 14,96 | 15,32 | 15,68 | 16,04 | 16,40 | 16,90 | 17,65 |

## RCMR2450804 RCMR2450804ED

4 mm Passo alette / Fin spacing

| Tc                 | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 25,60 | 27,60 | 28,14 | 28,68 | 29,22 | 29,76 | 30,30 | 31,20 | 32,55 |
| ΔT 9 UR/RH 79% kW  | 23,60 | 25,40 | 25,92 | 26,44 | 26,96 | 27,48 | 28,00 | 28,80 | 30,00 |
| ΔT 8 UR/RH 82% kW  | 21,40 | 23,10 | 23,58 | 24,06 | 24,54 | 25,02 | 25,50 | 26,20 | 27,25 |
| ΔT 7 UR/RH 85% kW  | 19,20 | 20,70 | 21,14 | 21,58 | 22,02 | 22,46 | 22,90 | 23,60 | 24,65 |
| ΔT 6 UR/RH 89% kW  | 16,90 | 18,30 | 18,74 | 19,18 | 19,62 | 20,06 | 20,50 | 21,20 | 22,25 |
| ΔT 5 UR/RH 93% kW  | 14,50 | 15,80 | 16,24 | 16,68 | 17,12 | 17,56 | 18,00 | 18,70 | 19,75 |

Tc = temperatura cella / cold room temperature

(\*) Per modelli passo alette 4mm, si consiglia un utilizzo ad una Tc ≥ +2°C - For 4mm fin spacing models we recommend to use the application Tc ≥ +2°C



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R404A

Potenza frigorifera

Refrigerating output

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## RCMR3450604 RCMR3450604ED

4 mm Passo alette / Fin spacing

| Tc                 | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 36,40 | 38,50 | 39,02 | 39,54 | 40,06 | 40,58 | 41,10 | 42,10 | 43,60 |
| ΔT 9 UR/RH 79% kW  | 33,20 | 35,20 | 35,72 | 36,24 | 36,76 | 37,28 | 37,80 | 38,60 | 39,80 |
| ΔT 8 UR/RH 82% kW  | 29,90 | 31,80 | 32,26 | 32,72 | 33,18 | 33,64 | 34,10 | 34,90 | 36,10 |
| ΔT 7 UR/RH 85% kW  | 26,20 | 27,80 | 28,26 | 28,72 | 29,18 | 29,64 | 30,10 | 30,80 | 31,85 |
| ΔT 6 UR/RH 89% kW  | 22,90 | 24,50 | 24,96 | 25,42 | 25,88 | 26,34 | 26,80 | 27,50 | 28,55 |
| ΔT 5 UR/RH 93% kW  | 19,50 | 21,00 | 21,48 | 21,96 | 22,44 | 22,92 | 23,40 | 24,20 | 25,40 |

## RCMR3450804 RCMR3450804ED

4 mm Passo alette / Fin spacing

| Tc                 | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 35,70 | 38,60 | 39,40 | 40,20 | 41,00 | 41,80 | 42,60 | 43,80 | 45,60 |
| ΔT 9 UR/RH 79% kW  | 32,90 | 35,60 | 36,34 | 37,08 | 37,82 | 38,56 | 39,30 | 40,50 | 42,30 |
| ΔT 8 UR/RH 82% kW  | 30,00 | 32,40 | 33,10 | 33,80 | 34,50 | 35,20 | 35,90 | 36,90 | 38,40 |
| ΔT 7 UR/RH 85% kW  | 26,80 | 29,00 | 29,64 | 30,28 | 30,92 | 31,56 | 32,20 | 33,10 | 34,45 |
| ΔT 6 UR/RH 89% kW  | 23,70 | 25,70 | 26,34 | 26,98 | 27,62 | 28,26 | 28,90 | 29,80 | 31,15 |
| ΔT 5 UR/RH 93% kW  | 20,40 | 22,30 | 22,92 | 23,54 | 24,16 | 24,78 | 25,40 | 26,30 | 27,65 |

## RCMR4450604 RCMR4450604ED

4 mm Passo alette / Fin spacing

| Tc                 | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 44,20 | 47,30 | 48,10 | 48,90 | 49,70 | 50,50 | 51,30 | 52,70 | 54,80 |
| ΔT 9 UR/RH 79% kW  | 40,60 | 43,50 | 44,26 | 45,02 | 45,78 | 46,56 | 47,30 | 48,40 | 50,05 |
| ΔT 8 UR/RH 82% kW  | 36,80 | 39,40 | 40,10 | 40,80 | 41,50 | 42,20 | 42,90 | 44,00 | 45,65 |
| ΔT 7 UR/RH 85% kW  | 32,80 | 35,10 | 35,76 | 36,42 | 37,08 | 37,74 | 38,40 | 39,40 | 40,90 |
| ΔT 6 UR/RH 89% kW  | 28,90 | 31,00 | 31,66 | 32,32 | 32,98 | 33,64 | 34,30 | 35,30 | 36,80 |
| ΔT 5 UR/RH 93% kW  | 24,40 | 26,40 | 27,06 | 27,72 | 28,38 | 29,04 | 29,70 | 30,70 | 32,20 |

## RCMR4450804 RCMR4450804ED

4 mm Passo alette / Fin spacing

| Tc                 | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 49,00 | 52,40 | 53,30 | 54,20 | 55,10 | 56,00 | 56,90 | 58,50 | 60,90 |
| ΔT 9 UR/RH 79% kW  | 44,90 | 48,10 | 48,98 | 49,86 | 50,74 | 51,62 | 52,50 | 53,80 | 55,75 |
| ΔT 8 UR/RH 82% kW  | 40,70 | 43,50 | 44,34 | 45,18 | 46,02 | 46,86 | 47,70 | 49,00 | 50,95 |
| ΔT 7 UR/RH 85% kW  | 36,20 | 38,90 | 39,66 | 40,42 | 41,18 | 41,94 | 42,70 | 43,90 | 45,70 |
| ΔT 6 UR/RH 89% kW  | 31,80 | 34,30 | 35,08 | 35,86 | 36,64 | 37,42 | 38,20 | 39,40 | 41,20 |
| ΔT 5 UR/RH 93% kW  | 27,20 | 29,60 | 30,38 | 31,16 | 31,94 | 32,72 | 33,50 | 34,70 | 36,50 |

Tc = temperatura cella / cold room temperature

(\*) Per modelli passo alette 4mm, si consiglia un utilizzo ad una Tc ≥ +2°C - For 4mm fin spacing models we recommend to use the application Tc ≥ +2°C

## RCMR1450806 RCMR1450806ED

6 mm Passo alette / Fin spacing

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 9,89   | 10,99 | 12,10 | 13,10 | 14,20 | 14,52 | 14,84 | 15,16 | 15,48 | 15,80 | 16,30 | 17,05 |
| ΔT 9 UR/RH 79% kW  | 9,26   | 10,23 | 11,20 | 12,10 | 13,10 | 13,40 | 13,70 | 14,00 | 14,30 | 14,60 | 15,10 | 15,85 |
| ΔT 8 UR/RH 82% kW  | 8,54   | 9,37  | 10,20 | 11,10 | 12,00 | 12,28 | 12,56 | 12,84 | 13,12 | 13,40 | 13,80 | 14,40 |
| ΔT 7 UR/RH 85% kW  | 7,79   | 8,50  | 9,21  | 9,92  | 10,80 | 11,04 | 11,28 | 11,52 | 11,76 | 12,00 | 12,40 | 13,00 |
| ΔT 6 UR/RH 89% kW  | 6,92   | 7,49  | 8,06  | 8,70  | 9,47  | 9,72  | 9,96  | 10,21 | 10,45 | 10,70 | 11,10 | 11,70 |
| ΔT 5 UR/RH 93% kW  | 6,02   | 6,48  | 6,94  | 7,52  | 8,23  | 8,47  | 8,71  | 8,95  | 9,19  | 9,43  | 9,78  | 10,31 |

## RCMR2450606 RCMR2450606ED

6 mm Passo alette / Fin spacing

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 19,60  | 21,00 | 22,40 | 23,60 | 25,00 | 25,32 | 25,64 | 25,96 | 26,28 | 26,60 | 27,30 | 28,35 |
| ΔT 9 UR/RH 79% kW  | 17,95  | 19,08 | 20,20 | 21,30 | 22,60 | 22,92 | 23,24 | 23,56 | 23,88 | 24,20 | 24,70 | 25,45 |
| ΔT 8 UR/RH 82% kW  | 16,30  | 17,25 | 18,20 | 19,20 | 20,40 | 20,70 | 21,00 | 21,30 | 21,60 | 21,90 | 22,40 | 23,15 |
| ΔT 7 UR/RH 85% kW  | 14,55  | 15,33 | 16,10 | 17,00 | 18,10 | 18,38 | 18,66 | 18,94 | 19,22 | 19,50 | 20,00 | 20,75 |
| ΔT 6 UR/RH 89% kW  | 12,75  | 13,38 | 14,00 | 14,90 | 15,90 | 16,20 | 16,50 | 16,80 | 17,10 | 17,40 | 17,90 | 18,65 |
| ΔT 5 UR/RH 93% kW  | 10,88  | 11,39 | 11,90 | 12,70 | 13,70 | 14,00 | 14,30 | 14,60 | 14,90 | 15,20 | 15,70 | 16,45 |

## RCMR2450806 RCMR2450806ED

6 mm Passo alette / Fin spacing

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 19,95  | 21,78 | 23,60 | 25,20 | 27,10 | 27,58 | 28,06 | 28,54 | 29,02 | 29,50 | 30,30 | 31,50 |
| ΔT 9 UR/RH 79% kW  | 18,55  | 20,13 | 21,70 | 23,20 | 24,80 | 25,28 | 25,76 | 26,24 | 26,72 | 27,20 | 27,90 | 28,95 |
| ΔT 8 UR/RH 82% kW  | 16,90  | 18,20 | 19,50 | 20,80 | 22,30 | 22,74 | 23,18 | 23,62 | 24,06 | 24,50 | 25,10 | 26,00 |
| ΔT 7 UR/RH 85% kW  | 15,25  | 16,33 | 17,40 | 18,50 | 19,90 | 20,30 | 20,70 | 21,10 | 21,50 | 21,90 | 22,50 | 23,40 |
| ΔT 6 UR/RH 89% kW  | 13,50  | 14,35 | 15,20 | 16,30 | 17,60 | 18,00 | 18,40 | 18,80 | 19,20 | 19,60 | 20,20 | 21,10 |
| ΔT 5 UR/RH 93% kW  | 11,60  | 12,30 | 13,00 | 14,00 | 15,20 | 15,60 | 16,00 | 16,40 | 16,80 | 17,20 | 17,80 | 18,70 |

Tc = temperatura cella / cold room temperature

(\*) Per modelli passo alette 6mm, si consiglia un utilizzo ad una Tc ≥ -15°C - For 6mm fin spacing models we recommend to use the application Tc ≥ -15°C



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Potenza frigorifera

Refrigerating output

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## RCMR3450606 RCMR3450606ED

6 mm Passo alette / Fin spacing

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 29,00  | 30,80 | 32,60 | 34,20 | 36,20 | 36,64 | 37,08 | 37,52 | 37,96 | 38,40 | 39,20 | 40,40 |
| ΔT 9 UR/RH 79% kW  | 26,65  | 28,18 | 29,70 | 31,20 | 33,00 | 33,44 | 33,88 | 34,32 | 34,76 | 35,20 | 36,00 | 37,20 |
| ΔT 8 UR/RH 82% kW  | 24,20  | 25,45 | 26,70 | 28,10 | 29,70 | 30,12 | 30,54 | 30,96 | 31,38 | 31,80 | 32,60 | 33,80 |
| ΔT 7 UR/RH 85% kW  | 21,45  | 22,53 | 23,60 | 24,80 | 26,40 | 26,78 | 27,16 | 27,54 | 27,92 | 28,30 | 29,00 | 30,05 |
| ΔT 6 UR/RH 89% kW  | 18,75  | 19,63 | 20,50 | 21,70 | 23,10 | 23,52 | 23,94 | 24,36 | 24,78 | 25,20 | 25,90 | 26,95 |
| ΔT 5 UR/RH 93% kW  | 15,95  | 16,68 | 17,40 | 18,40 | 19,80 | 20,26 | 20,72 | 21,18 | 21,64 | 22,10 | 22,70 | 23,60 |

## RCMR3450806 RCMR3450806ED

6 mm Passo alette / Fin spacing

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 27,65  | 30,43 | 33,20 | 35,70 | 38,40 | 39,14 | 39,88 | 40,62 | 41,36 | 42,10 | 43,20 | 44,85 |
| ΔT 9 UR/RH 79% kW  | 25,60  | 27,95 | 30,30 | 32,50 | 34,90 | 35,68 | 36,46 | 37,24 | 38,02 | 38,80 | 39,80 | 41,30 |
| ΔT 8 UR/RH 82% kW  | 23,60  | 25,60 | 27,60 | 29,50 | 31,70 | 32,34 | 32,98 | 33,62 | 34,26 | 34,90 | 35,80 | 37,15 |
| ΔT 7 UR/RH 85% kW  | 21,30  | 22,95 | 24,60 | 26,30 | 28,40 | 28,98 | 29,56 | 30,14 | 30,72 | 31,30 | 32,20 | 33,55 |
| ΔT 6 UR/RH 89% kW  | 18,95  | 20,33 | 21,70 | 23,20 | 25,10 | 25,68 | 26,26 | 26,84 | 27,42 | 28,00 | 28,90 | 30,25 |
| ΔT 5 UR/RH 93% kW  | 16,35  | 17,48 | 18,60 | 20,00 | 21,70 | 22,28 | 22,86 | 23,44 | 24,02 | 24,60 | 25,50 | 26,85 |

## RCMR4450606 RCMR4450606ED

6 mm Passo alette / Fin spacing

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 33,35  | 36,23 | 39,10 | 41,60 | 44,30 | 44,98 | 45,66 | 46,34 | 47,02 | 47,70 | 48,90 | 50,70 |
| ΔT 9 UR/RH 79% kW  | 30,95  | 33,43 | 35,90 | 38,10 | 40,60 | 41,26 | 41,92 | 42,58 | 43,24 | 43,90 | 44,90 | 46,40 |
| ΔT 8 UR/RH 82% kW  | 28,30  | 30,35 | 32,40 | 34,50 | 36,80 | 37,40 | 38,00 | 38,60 | 39,20 | 39,80 | 40,80 | 42,30 |
| ΔT 7 UR/RH 85% kW  | 25,50  | 27,20 | 28,90 | 30,70 | 32,70 | 33,28 | 33,86 | 34,44 | 35,02 | 35,60 | 36,50 | 37,85 |
| ΔT 6 UR/RH 89% kW  | 22,45  | 23,88 | 25,30 | 26,90 | 28,90 | 29,48 | 30,06 | 30,64 | 31,22 | 31,80 | 32,70 | 34,05 |
| ΔT 5 UR/RH 93% kW  | 19,20  | 20,35 | 21,50 | 23,00 | 24,90 | 25,48 | 26,06 | 26,64 | 27,22 | 27,80 | 28,70 | 30,05 |

## RCMR4450806 RCMR4450806ED

6 mm Passo alette / Fin spacing

| Tc                 | -20°C* | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   | 6°C   | 8°C   | 10°C  | 12°C  | 15°C  |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 39,35  | 42,43 | 45,50 | 48,30 | 51,40 | 52,22 | 53,04 | 53,86 | 54,68 | 55,50 | 57,00 | 59,25 |
| ΔT 9 UR/RH 79% kW  | 36,40  | 39,00 | 41,60 | 44,20 | 47,10 | 47,90 | 48,70 | 49,50 | 50,30 | 51,10 | 52,40 | 54,35 |
| ΔT 8 UR/RH 82% kW  | 33,25  | 35,43 | 37,60 | 39,90 | 42,60 | 43,36 | 44,12 | 44,88 | 45,64 | 46,40 | 47,50 | 49,15 |
| ΔT 7 UR/RH 85% kW  | 29,85  | 31,68 | 33,50 | 35,50 | 37,90 | 38,60 | 39,30 | 40,00 | 40,70 | 41,40 | 42,50 | 44,15 |
| ΔT 6 UR/RH 89% kW  | 26,20  | 27,75 | 29,30 | 31,10 | 33,50 | 34,20 | 34,90 | 35,60 | 36,30 | 37,00 | 38,20 | 40,00 |
| ΔT 5 UR/RH 93% kW  | 22,40  | 23,65 | 24,90 | 26,60 | 28,80 | 29,52 | 30,24 | 30,96 | 31,68 | 32,40 | 33,60 | 35,40 |

Tc = temperatura cella / cold room temperature

(\*) Per modelli passo alette 6mm, si consiglia un utilizzo ad una Tc ≥ -15°C - For 6mm fin spacing models we recommend to use the application Tc ≥ -15°C

## RCMR1450808 RCMR1450808ED

8 mm Passo alette / Fin spacing

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 5,39  | 6,36  | 7,48  | 8,46  | 9,44  | 10,42 | 11,40 | 12,30 | 13,20 | 13,46 | 13,72 |
| ΔT 9 UR/RH 79% kW  | 5,14  | 6,07  | 7,10  | 7,95  | 8,80  | 9,65  | 10,50 | 11,30 | 12,20 | 12,44 | 12,68 |
| ΔT 8 UR/RH 82% kW  | 4,87  | 5,74  | 6,64  | 7,38  | 8,12  | 8,85  | 9,59  | 10,30 | 11,10 | 11,32 | 11,54 |
| ΔT 7 UR/RH 85% kW  | 4,56  | 5,34  | 6,11  | 6,73  | 7,35  | 7,96  | 8,58  | 9,21  | 9,93  | 10,14 | 10,36 |
| ΔT 6 UR/RH 89% kW  | 4,18  | 4,86  | 5,52  | 6,01  | 6,51  | 7,00  | 7,49  | 8,05  | 8,72  | 8,93  | 9,14  |
| ΔT 5 UR/RH 93% kW  | 3,76  | 4,31  | 4,83  | 5,23  | 5,63  | 6,03  | 6,43  | 6,93  | 7,56  | 7,77  | 7,98  |

## RCMR2450608 RCMR2450608ED

8 mm Passo alette / Fin spacing

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 12,50 | 14,20 | 15,70 | 16,75 | 17,80 | 18,85 | 19,90 | 20,90 | 22,10 | 22,36 | 22,62 |
| ΔT 9 UR/RH 79% kW  | 11,80 | 13,20 | 14,50 | 15,43 | 16,35 | 17,28 | 18,20 | 19,00 | 20,10 | 20,38 | 20,66 |
| ΔT 8 UR/RH 82% kW  | 10,90 | 12,10 | 13,30 | 14,05 | 14,80 | 15,55 | 16,30 | 17,10 | 18,10 | 18,36 | 18,62 |
| ΔT 7 UR/RH 85% kW  | 9,96  | 11,00 | 11,90 | 12,53 | 13,15 | 13,78 | 14,40 | 15,20 | 16,10 | 16,34 | 16,58 |
| ΔT 6 UR/RH 89% kW  | 8,93  | 9,77  | 10,50 | 11,03 | 11,55 | 12,08 | 12,60 | 13,20 | 14,10 | 14,36 | 14,62 |
| ΔT 5 UR/RH 93% kW  | 7,73  | 8,37  | 8,91  | 9,31  | 9,71  | 10,10 | 10,50 | 11,20 | 12,00 | 12,26 | 12,52 |

## RCMR2450808 RCMR2450808ED

8 mm Passo alette / Fin spacing

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 11,80 | 13,70 | 15,80 | 17,40 | 19,00 | 20,60 | 22,20 | 23,60 | 25,20 | 25,62 | 26,04 |
| ΔT 9 UR/RH 79% kW  | 11,20 | 13,00 | 14,80 | 16,20 | 17,60 | 19,00 | 20,40 | 21,60 | 23,10 | 23,50 | 23,90 |
| ΔT 8 UR/RH 82% kW  | 10,60 | 12,20 | 13,70 | 14,88 | 16,05 | 17,23 | 18,40 | 19,60 | 20,90 | 21,28 | 21,66 |
| ΔT 7 UR/RH 85% kW  | 9,76  | 11,20 | 12,50 | 13,48 | 14,45 | 15,43 | 16,40 | 17,40 | 18,70 | 19,04 | 19,38 |
| ΔT 6 UR/RH 89% kW  | 8,89  | 10,10 | 11,20 | 11,95 | 12,70 | 13,45 | 14,20 | 15,10 | 16,30 | 16,64 | 16,98 |
| ΔT 5 UR/RH 93% kW  | 7,88  | 8,83  | 9,64  | 10,26 | 10,87 | 11,49 | 12,10 | 13,00 | 14,10 | 14,44 | 14,78 |

Tc = temperatura cella / cold room temperature





Ø 450

R404A

Potenza frigorifera

Refrigerating output

RIVACOLD

## RCMR3450608 RCMR3450608ED

8 mm Passo alette / Fin spacing

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 19,20 | 21,30 | 23,50 | 24,95 | 26,40 | 27,85 | 29,30 | 30,60 | 32,20 | 32,56 | 32,92 |
| ΔT 9 UR/RH 79% kW  | 17,90 | 19,90 | 21,70 | 22,93 | 24,15 | 25,38 | 26,60 | 27,80 | 29,30 | 29,68 | 30,06 |
| ΔT 8 UR/RH 82% kW  | 16,60 | 18,30 | 19,80 | 20,83 | 21,85 | 22,88 | 23,90 | 25,00 | 26,40 | 26,76 | 27,12 |
| ΔT 7 UR/RH 85% kW  | 15,10 | 16,50 | 17,70 | 18,55 | 19,40 | 20,25 | 21,10 | 22,10 | 23,40 | 23,74 | 24,08 |
| ΔT 6 UR/RH 89% kW  | 13,50 | 14,60 | 15,50 | 16,20 | 16,90 | 17,60 | 18,30 | 19,30 | 20,50 | 20,86 | 21,22 |
| ΔT 5 UR/RH 93% kW  | 11,60 | 12,50 | 13,10 | 13,65 | 14,20 | 14,75 | 15,30 | 16,20 | 17,40 | 17,78 | 18,16 |

## RCMR3450808 RCMR3450808ED

8 mm Passo alette / Fin spacing

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 15,90 | 18,60 | 21,50 | 23,90 | 26,30 | 28,70 | 31,10 | 33,20 | 35,50 | 36,10 | 36,70 |
| ΔT 9 UR/RH 79% kW  | 15,10 | 17,60 | 20,30 | 22,38 | 24,45 | 26,53 | 28,60 | 30,40 | 32,60 | 33,18 | 33,76 |
| ΔT 8 UR/RH 82% kW  | 14,20 | 16,50 | 18,90 | 20,65 | 22,40 | 24,15 | 25,90 | 27,60 | 29,50 | 30,04 | 30,58 |
| ΔT 7 UR/RH 85% kW  | 13,20 | 15,30 | 17,30 | 18,75 | 20,20 | 21,65 | 23,10 | 24,60 | 26,40 | 26,88 | 27,36 |
| ΔT 6 UR/RH 89% kW  | 12,10 | 13,80 | 15,40 | 16,63 | 17,85 | 19,08 | 20,30 | 21,60 | 23,30 | 23,80 | 24,30 |
| ΔT 5 UR/RH 93% kW  | 10,80 | 12,20 | 13,40 | 14,38 | 15,35 | 16,33 | 17,30 | 18,50 | 20,10 | 20,60 | 21,10 |

## RCMR4450608 RCMR4450608ED

8 mm Passo alette / Fin spacing

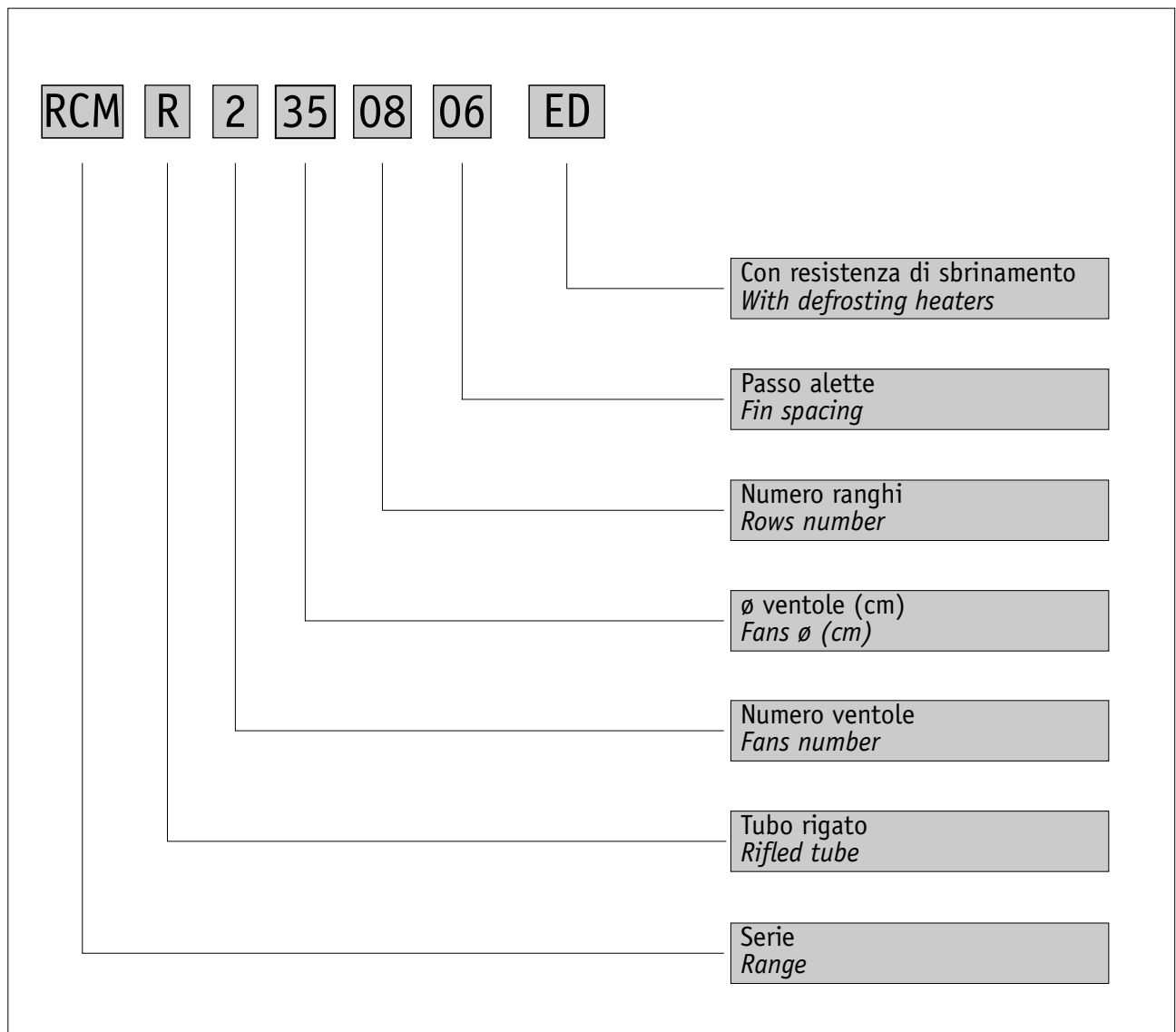
| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 19,80 | 22,80 | 26,10 | 28,55 | 31,00 | 33,45 | 35,90 | 37,90 | 40,20 | 40,76 | 41,32 |
| ΔT 9 UR/RH 79% kW  | 18,80 | 21,60 | 24,50 | 26,58 | 28,65 | 30,73 | 32,80 | 34,70 | 36,80 | 37,34 | 37,88 |
| ΔT 8 UR/RH 82% kW  | 17,60 | 20,20 | 22,60 | 24,30 | 26,00 | 27,70 | 29,40 | 31,00 | 32,90 | 33,40 | 33,90 |
| ΔT 7 UR/RH 85% kW  | 16,30 | 18,40 | 20,50 | 21,88 | 23,25 | 24,63 | 26,00 | 27,50 | 29,30 | 29,76 | 30,22 |
| ΔT 6 UR/RH 89% kW  | 14,70 | 16,60 | 18,20 | 19,33 | 20,45 | 21,58 | 22,70 | 24,10 | 25,80 | 26,28 | 26,76 |
| ΔT 5 UR/RH 93% kW  | 13,00 | 14,40 | 15,70 | 16,60 | 17,50 | 18,40 | 19,30 | 20,60 | 22,20 | 22,70 | 23,20 |

## RCMR4450808 RCMR4450808ED

8 mm Passo alette / Fin spacing

| Tc                 | -40°C | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | -5°C  | 0°C   | 2°C   | 4°C   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔT 10 UR/RH 76% kW | 24,90 | 28,50 | 32,20 | 34,70 | 37,20 | 39,70 | 42,20 | 44,60 | 47,30 | 47,96 | 48,62 |
| ΔT 9 UR/RH 79% kW  | 23,60 | 26,80 | 30,10 | 32,23 | 34,35 | 36,48 | 38,60 | 40,70 | 43,20 | 43,88 | 44,56 |
| ΔT 8 UR/RH 82% kW  | 22,00 | 24,90 | 27,70 | 29,48 | 31,25 | 33,03 | 34,80 | 36,70 | 39,00 | 39,64 | 40,28 |
| ΔT 7 UR/RH 85% kW  | 20,30 | 22,80 | 25,10 | 26,53 | 27,95 | 29,38 | 30,80 | 32,60 | 34,70 | 35,30 | 35,90 |
| ΔT 6 UR/RH 89% kW  | 18,30 | 20,40 | 22,00 | 23,23 | 24,45 | 25,68 | 26,90 | 28,50 | 30,60 | 31,20 | 31,80 |
| ΔT 5 UR/RH 93% kW  | 15,90 | 17,50 | 18,90 | 19,88 | 20,85 | 21,83 | 22,80 | 24,40 | 26,30 | 26,94 | 27,58 |

Tc = temperatura cella / cold room temperature



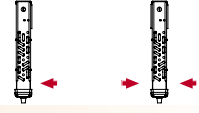
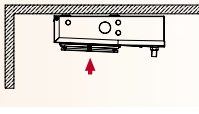
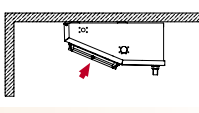
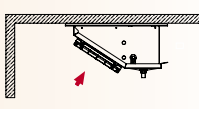
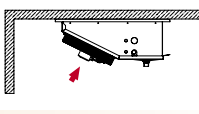
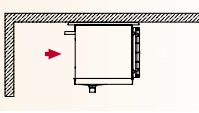
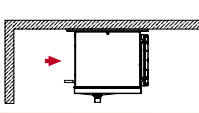
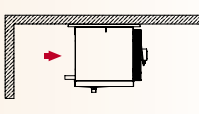
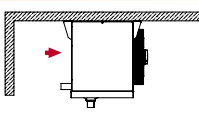
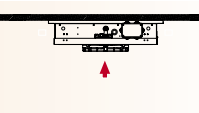
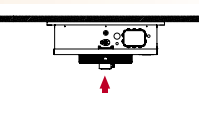
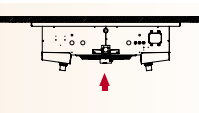
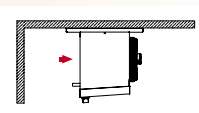
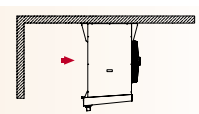
Per ulteriori informazioni, contattare il nostro ufficio tecnico / *For further information, please contact our technical dept*

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*Descriptions, technical data and pictures are to be considered as a guide and not binding. Rivacold reserves the right to change in whole or part, the specification detailed in this documentation without prior notice and, when necessary to achieve continuous productions, to use alternative manufactures of components for design accomplishment.*

# Aeroevaporatori Rivacold

Rivacold units coolers

| Serie Range | Potenza / Capacity |                |                 |       |        |        |        |         |         |  | Ventole Fans  |       |
|-------------|--------------------|----------------|-----------------|-------|--------|--------|--------|---------|---------|--|---|-------|
|             | 1000W              | 2000W          | 4000W           | 8000W | 16000W | 32000W | 64000W | 128000W | 256000W |  |   |       |
| RM70        | 132 W              |                |                 |       |        |        |        |         |         |  |    | 2     |
| RS          | 107 - 2760 W       |                |                 |       |        |        |        |         |         |  |    | 1 - 4 |
| RSV         | 341 - 3080 W       |                |                 |       |        |        |        |         |         |  |    | 1 - 2 |
| RSI 250     | 420 - 5830 W       |                |                 |       |        |        |        |         |         |  |    | 1 - 4 |
| RSI 350     |                    | 1440 - 11900 W |                 |       |        |        |        |         |         |  |   | 2 - 4 |
| RC          | 538 - 8005 W       |                |                 |       |        |        |        |         |         |  |  | 1 - 4 |
| RCS         | 383 - 8465 W       |                |                 |       |        |        |        |         |         |  |  | 1 - 4 |
| RCMR 350    |                    | 1670 - 23150 W |                 |       |        |        |        |         |         |  |  | 1 - 4 |
| RCMR 450    |                    |                | 3760 - 60900 W  |       |        |        |        |         |         |  |  | 1 - 4 |
| RDF 250     | 374 - 6185 W       |                |                 |       |        |        |        |         |         |  |  | 1 - 4 |
| RDF 350     |                    | 1630 - 19000 W |                 |       |        |        |        |         |         |  |  | 2 - 5 |
| RDFR 500    |                    |                | 3020 - 82050 W  |       |        |        |        |         |         |  |  | 1 - 4 |
| RCBR 500    |                    |                | 4020 - 73750 W  |       |        |        |        |         |         |  |  | 1 - 4 |
| RCBR 630    |                    |                | 4588 - 170569 W |       |        |        |        |         |         |  |  | 1 - 4 |

**RIVACOLD** s.r.l.

**Costruzione Gruppi Frigoriferi e Accessori**

Via Sicilia, 7 - 61022 Fraz. Montecchio

VALLEFOGLIA PU - Italy

Tel. +39.0721.919911 - Fax +39.0721.490015

[www.rivacold.com](http://www.rivacold.com) / [info@rivacold.com](mailto:info@rivacold.com)

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