



INDICATIVE PRODUCT IMAGE

**3.026,45 €**

## Product file

|             |                                   |
|-------------|-----------------------------------|
| Code        | RCMRKB4350606ED                   |
| Refrigerant | R454C mid                         |
| Application | MBP                               |
| Series      | RCMRKB                            |
| Net weight  | 69 kg                             |
| Ped         | 1 (R454C / R455A) - 0 (Gr. Fl. 2) |
| Type        | VENTILATED                        |
| Typology    | Cubic                             |

## Evaporator

|                                     |                        |
|-------------------------------------|------------------------|
| Fan-motors no.                      | 4                      |
| Fan blade diameter                  | 350 mm                 |
| Fan-motor type                      | EC external rotor      |
| Fan-motor voltage                   | 200-240/1/50-60        |
| Max velocity                        | 1600 rpm               |
| Min velocity                        | 850 rpm                |
| Air throw (high velocity)           | 21 m                   |
| Air throw (low velocity)            | 18 m                   |
| Evaporator air flow (high velocity) | 8699 m <sup>3</sup> /h |
| Evaporator air flow (low velocity)  | 5171 m <sup>3</sup> /h |

## Evaporator geometry

|                    |                       |
|--------------------|-----------------------|
| Geometry           | 37.5 X 32.475         |
| Tube               | TUBE 12               |
| Rows               | 6                     |
| Finned pack length | 1950 mm               |
| Fine spacing       | 6.00 mm               |
| Total surface      | 46.70 m <sup>2</sup>  |
| Circuit volume     | 14.30 dm <sup>3</sup> |

## Absorptions

|                                    |             |
|------------------------------------|-------------|
| Power absorption (high velocity)   | 460 W       |
| Power absorption (low velocity)    | 156 W       |
| Current absorption (high velocity) | 3.44 A      |
| Current absorption (low velocity)  | 1.28 A      |
| Number of heaters                  | 5           |
| Heaters voltage                    | 400/3/50-60 |
| Defrost                            | 6700 W      |

## Pipe fittings

|                      |               |
|----------------------|---------------|
| Inlet connection     | 28 mm         |
| Outlet connection    | 42 mm         |
| Discharge connection | 1" Gas (33mm) |

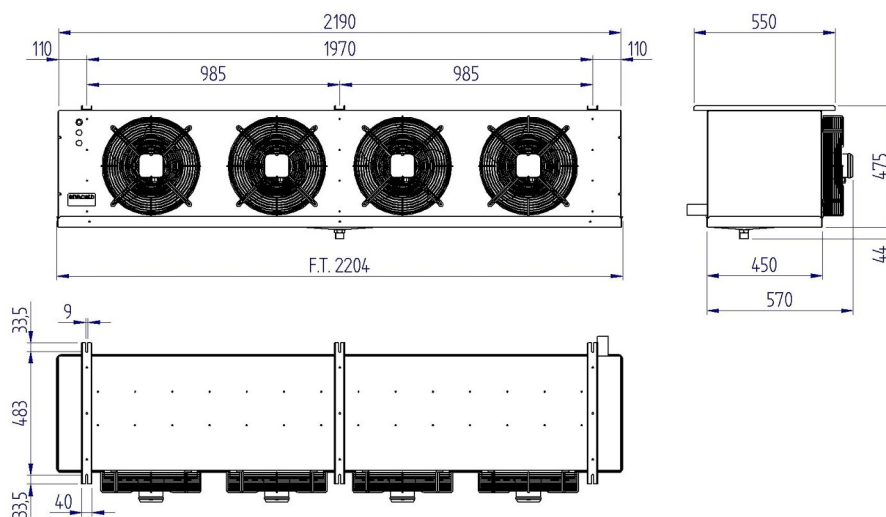
# Refrigeration capacity table – RCMRKB4350606ED – Refrigerant: R454C mid

| Cell temperature | ΔT   | Capacity | Speed      | Limitations                               |
|------------------|------|----------|------------|-------------------------------------------|
| -20 °C           | 9 K  | 13559 W  | High speed | Application outside the recommended range |
| -20 °C           | 10 K | 14833 W  | High speed | Application outside the recommended range |
| -20 °C           | 11 K | 16107 W  | High speed | Application outside the recommended range |
| -20 °C           | 12 K | 17381 W  | High speed | Application outside the recommended range |
| -20 °C           | 13 K | 18655 W  | High speed | Application outside the recommended range |
| -20 °C           | 14 K | 19929 W  | High speed | Application outside the recommended range |
| -20 °C           | 15 K | 21203 W  | High speed | Application outside the recommended range |
| -15 °C           | 9 K  | 14196 W  | High speed | -                                         |
| -15 °C           | 10 K | 15561 W  | High speed | -                                         |
| -15 °C           | 11 K | 16926 W  | High speed | -                                         |
| -15 °C           | 12 K | 18291 W  | High speed | -                                         |
| -15 °C           | 13 K | 19656 W  | High speed | -                                         |
| -15 °C           | 14 K | 21021 W  | High speed | -                                         |
| -15 °C           | 15 K | 22386 W  | High speed | -                                         |
| -10 °C           | 9 K  | 14833 W  | High speed | -                                         |
| -10 °C           | 10 K | 16289 W  | High speed | -                                         |
| -10 °C           | 11 K | 17745 W  | High speed | -                                         |
| -10 °C           | 12 K | 19201 W  | High speed | -                                         |
| -10 °C           | 13 K | 20657 W  | High speed | -                                         |
| -10 °C           | 14 K | 22113 W  | High speed | -                                         |
| -10 °C           | 15 K | 23569 W  | High speed | -                                         |
| -5 °C            | 9 K  | 15561 W  | High speed | -                                         |
| -5 °C            | 10 K | 17108 W  | High speed | -                                         |
| -5 °C            | 11 K | 18655 W  | High speed | -                                         |
| -5 °C            | 12 K | 20202 W  | High speed | -                                         |
| -5 °C            | 13 K | 21749 W  | High speed | -                                         |
| -5 °C            | 14 K | 23296 W  | High speed | -                                         |
| -5 °C            | 15 K | 24843 W  | High speed | -                                         |
| 0 °C             | 9 K  | 16471 W  | High speed | -                                         |
| 0 °C             | 10 K | 18109 W  | High speed | -                                         |
| 0 °C             | 11 K | 19747 W  | High speed | -                                         |
| 0 °C             | 12 K | 21385 W  | High speed | -                                         |
| 0 °C             | 13 K | 23023 W  | High speed | -                                         |
| 0 °C             | 14 K | 24661 W  | High speed | -                                         |
| 0 °C             | 15 K | 26299 W  | High speed | -                                         |
| 2 °C             | 9 K  | 16744 W  | High speed | -                                         |
| 2 °C             | 10 K | 18291 W  | High speed | -                                         |
| 2 °C             | 11 K | 19838 W  | High speed | -                                         |
| 2 °C             | 12 K | 21385 W  | High speed | -                                         |
| 2 °C             | 13 K | 22932 W  | High speed | -                                         |
| 2 °C             | 14 K | 24479 W  | High speed | -                                         |
| 2 °C             | 15 K | 26026 W  | High speed | -                                         |
| 4 °C             | 9 K  | 16835 W  | High speed | -                                         |
| 4 °C             | 10 K | 18564 W  | High speed | -                                         |
| 4 °C             | 11 K | 20293 W  | High speed | -                                         |
| 4 °C             | 12 K | 22022 W  | High speed | -                                         |
| 4 °C             | 13 K | 23751 W  | High speed | -                                         |
| 4 °C             | 14 K | 25480 W  | High speed | -                                         |
| 4 °C             | 15 K | 27209 W  | High speed | -                                         |

| Cell temperature | $\Delta T$ | Capacity | Speed      | Limitations |
|------------------|------------|----------|------------|-------------|
| 6 °C             | 9 K        | 17017 W  | High speed | -           |
| 6 °C             | 10 K       | 18746 W  | High speed | -           |
| 6 °C             | 11 K       | 20475 W  | High speed | -           |
| 6 °C             | 12 K       | 22204 W  | High speed | -           |
| 6 °C             | 13 K       | 23933 W  | High speed | -           |
| 6 °C             | 14 K       | 25662 W  | High speed | -           |
| 6 °C             | 15 K       | 27391 W  | High speed | -           |
| 8 °C             | 9 K        | 17290 W  | High speed | -           |
| 8 °C             | 10 K       | 19019 W  | High speed | -           |
| 8 °C             | 11 K       | 20748 W  | High speed | -           |
| 8 °C             | 12 K       | 22477 W  | High speed | -           |
| 8 °C             | 13 K       | 24206 W  | High speed | -           |
| 8 °C             | 14 K       | 25935 W  | High speed | -           |
| 8 °C             | 15 K       | 27664 W  | High speed | -           |
| 10 °C            | 9 K        | 17745 W  | High speed | -           |
| 10 °C            | 10 K       | 19292 W  | High speed | -           |
| 10 °C            | 11 K       | 20839 W  | High speed | -           |
| 10 °C            | 12 K       | 22386 W  | High speed | -           |
| 10 °C            | 13 K       | 23933 W  | High speed | -           |
| 10 °C            | 14 K       | 25480 W  | High speed | -           |
| 10 °C            | 15 K       | 27027 W  | High speed | -           |
| 12 °C            | 9 K        | 18109 W  | High speed | -           |
| 12 °C            | 10 K       | 19747 W  | High speed | -           |
| 12 °C            | 11 K       | 21385 W  | High speed | -           |
| 12 °C            | 12 K       | 23023 W  | High speed | -           |
| 12 °C            | 13 K       | 24661 W  | High speed | -           |
| 12 °C            | 14 K       | 26299 W  | High speed | -           |
| 12 °C            | 15 K       | 27937 W  | High speed | -           |
| 15 °C            | 9 K        | 18655 W  | High speed | -           |
| 15 °C            | 10 K       | 20430 W  | High speed | -           |
| 15 °C            | 11 K       | 22204 W  | High speed | -           |
| 15 °C            | 12 K       | 23979 W  | High speed | -           |
| 15 °C            | 13 K       | 25753 W  | High speed | -           |
| 15 °C            | 14 K       | 27528 W  | High speed | -           |
| 15 °C            | 15 K       | 29302 W  | High speed | -           |

For refrigerants with high glide, the DeltaT at mid-point cannot be too low:  
there is a risk that the refrigerant outlet temperature, taking into account the necessary superheating, will be too close to the air inlet temperature;  
If this were to occur, the exchanger could not function.

## Technical drawings – RCMRKB4350606ED





INDICATIVE PRODUCT IMAGE

## • 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
- The RCMRKB range is supplied as standard with EC fan motors (Identified by the letter "B") and blade with special profile for combining higher efficiency and low absorption.
- Thermostat: system to be connected to the external contactor, to suspend the power supply to the defrosting heaters in the event of malfunction.
- 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 suction mode and prevent the condensate forming on the fan
- The coil is made of aluminium fins, 12 mm 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.
- The fan motor models in use have 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 -40°C a +65°C
- Electrics made in conformity with 2006/95/CE Low Tension directive
- 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