INDICATIVE PRODUCT IMAGE

2.364,23 €

Product file

Code	RSIKB43507ED
Refrigerant	R454C mid
Application	LBP
Series	RSIKB
Net weight	54 kg
Ped	0
Type	VENTILATED
Typology	Ceiling

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)	13 m
Air throw (low velocity)	10 m
Evaporator air flow (high velocity)	6195 m³/h
Evaporator air flow (low velocity)	3749 m³/h

Evaporator geometry

Geometry	37.5 X 32.475
Tube	TUBE 12
Rows	6
Finned pack length	1950 mm
Fine spacing	7.00 mm
Total surface	24.40 m²
Circuit volume	8.83 dm³

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	4
Heaters voltage	400/3/50-60
Defrost	5360 W

Pipe fittings

Inlet connection	12 mm-1/2" sae
Outlet connection	28 mm
Discharge connection	1" Gas (33mm)

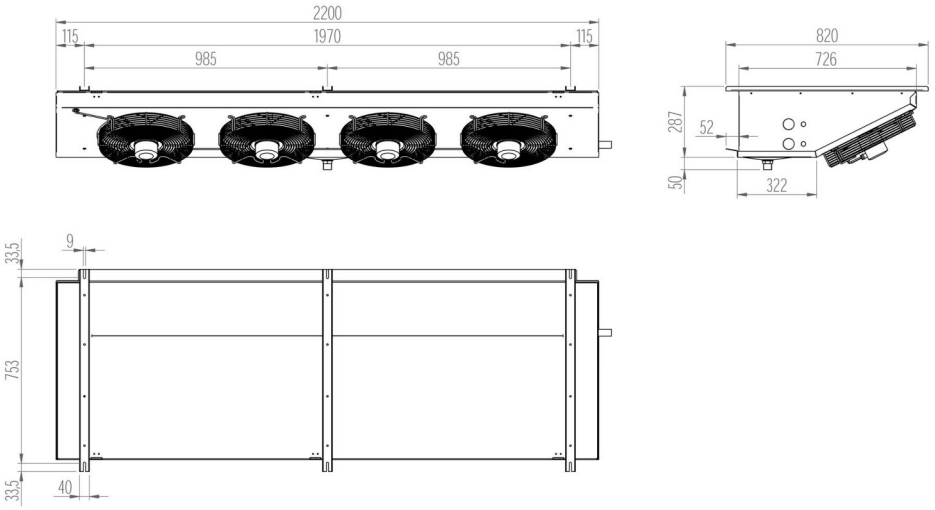
Refrigeration capacity table – RSIKB43507ED – Refrigerant: R454C mid

Cell temperature	ΔT	Capacity	Speed
-40 °C	9 K	4495 W	High speed
-40 °C	10 K	4841 W	High speed
-40 °C	11 K	5187 W	High speed
-40 °C	12 K	5532 W	High speed
-40 °C	13 K	5878 W	High speed
-40 °C	14 K	6224 W	High speed
-40 °C	15 K	6570 W	High speed
-35 °C	9 K	5086 W	High speed
-35 °C	10 K	5505 W	High speed
-35 °C	11 K	5924 W	High speed
-35 °C	12 K	6342 W	High speed
-35 °C	13 K	6761 W	High speed
-35 °C	14 K	7179 W	High speed
-35 °C	15 K	7598 W	High speed
-30 °C	9 K	5669 W	High speed
-30 °C	10 K	6206 W	High speed
-30 °C	11 K	6743 W	High speed
-30 °C	12 K	7280 W	High speed
-30 °C	13 K	7816 W	High speed
-30 °C	14 K	8353 W	High speed
-30 °C	15 K	8890 W	High speed
-25 °C	9 K	6178 W	High speed
-25 °C	10 K	6834 W	High speed
-25 °C	11 K	7489 W	High speed
-25 °C	12 K	8144 W	High speed
-25 °C	13 K	8799 W	High speed
-25 °C	14 K	9454 W	High speed
-25 °C	15 K	10110 W	High speed
-20 °C	9 K	6506 W	High speed
-20 °C	10 K	7243 W	High speed
-20 °C	11 K	7980 W	High speed
-20 °C	12 K	8717 W	High speed
-20 °C	13 K	9454 W	High speed
-20 °C	14 K	10192 W	High speed
-20 °C	15 K	10929 W	High speed
-15 °C	9 K	6752 W	High speed
-15 °C	10 K	7562 W	High speed
-15 °C	11 K	8372 W	High speed
-15 °C	12 K	9181 W	High speed
-15 °C	13 K	9991 W	High speed
-15 °C	14 K	10801 W	High speed
-15 °C	15 K	11611 W	High speed
-10 °C	9 K	7052 W	High speed
-10 °C	10 K	7935 W	High speed
-10 °C	11 K	8817 W	High speed
-10 °C	12 K	9700 W	High speed
-10 °C	13 K	10583 W	High speed
-10 °C	14 K	11466 W	High speed
-10 °C	15 K	12348 W	High speed
-5 °C	9 K	7380 W	High speed
-5 °C	10 K	8308 W	High speed
-5 °C	11 K	9236 W	High speed
-5 °C	12 K	10164 W	High speed
-5 °C	13 K	11092 W	High speed

Cell temperature	ΔT	Capacity	Speed
-5 °C	14 K	12021 W	High speed
-5 °C	15 K	12949 W	High speed
0 °C	9 K	7744 W	High speed
0 °C	10 K	8717 W	High speed
0 °C	11 K	9691 W	High speed
0 °C	12 K	10665 W	High speed
0 °C	13 K	11638 W	High speed
0 °C	14 K	12612 W	High speed
0 °C	15 K	13586 W	High speed
2 °C	9 K	7789 W	High speed
2 °C	10 K	8763 W	High speed
2 °C	11 K	9737 W	High speed
2 °C	12 K	10710 W	High speed
2 °C	13 K	11684 W	High speed
2 °C	14 K	12658 W	High speed
2 °C	15 K	13631 W	High speed
4 °C	9 K	7835 W	High speed
4 °C	10 K	8790 W	High speed
4 °C	11 K	9746 W	High speed
4 °C	12 K	10701 W	High speed
4 °C	13 K	11657 W	High speed
4 °C	14 K	12612 W	High speed
4 °C	15 K	13568 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 – RSIKB43507ED



INDICATIVE PRODUCT IMAGE

- **GENERAL FEATURES**
- RSI range unit coolers have been designed to be installed inside cold rooms suited for fresh and frozen goods storage.
- This range has the advantage of having extremely compact dimensions and at the same time gives capacities comparable to the RC range. This feature allows applications inside cold rooms with a minimum encumbrace in height
- RSI range is available in two different fan diameters and three types of fin spacing according to the needed application.
- The ED version is supplied with mounted defrosting heaters and is suitable for being used at low temperature applications.
- The model types having 350mm fan diameter are made of two different groups: models with 3,5mm fin spacing suited for cold room temperature (Tc) from -5°C to +15°C; models with 7mm fin spacing suited for cold room temperature (Tc) from -40°C to +4°C.
- The RSIKB 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 coil is made of aluminium fins and 3/8” copper tube with geometry 25x22
- It is 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
- 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 73/23CEE 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