



INDICATIVE PRODUCT IMAGE

### Needed Data for selection

Refrigerant	R744
Cold Room Temp.	-20 °C
Requested capacity	5000 W
ΔT	8 K

### Search results

Speed	950 rpm
Total capacity	5364 W
Calculated ΔT	7 K
Tolerance	7.3 %

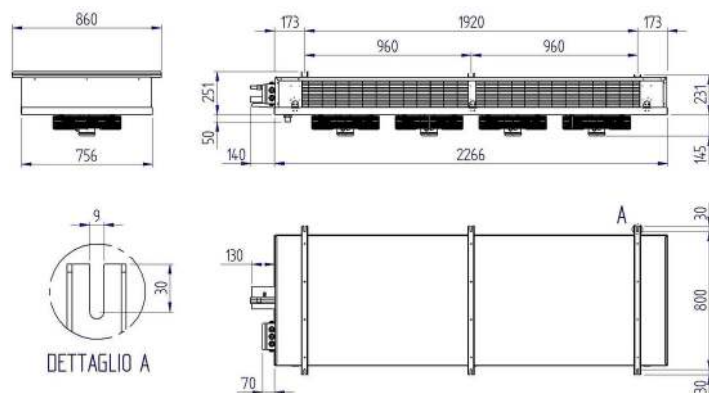
### Product file

Code	RDFXB43507ED
Range	RDFX
Model	Ceiling unit c. dual air flow
Application	LBP
PED	0
Rows number	4
Total surface	30.13 m <sup>2</sup>
Defrosting (Watt)	5360 W
Net weight	63.5 kg
Inlet connection	12 mm
Outlet connection	16 mm
Drain connection	1" Gas (33mm)
Fin spacing	7
Circuit volume	7.68 dm <sup>3</sup>

### Fan-motor

Type	Rotore esterno "ec"
Fan-motors no.	4
Diameter	350 mm
Power supply	200-240/1/50-60
Low speed	950 rpm
High speed	1450 rpm
Power consumption (high speed)	640 W
Current consumption (high speed)	5.2 A
Air flow (high speed)	10738.9 m <sup>3</sup> /h
Air throw (high speed)	2X12 m
Power consumption (low speed)	180 W
Current consumption (low speed)	1.6 A
Air flow (low speed)	7019.9 m <sup>3</sup> /h
Air throw (low speed)	2X11 m

Technical data - RDXB43507ED



**Refrigerating capacity table (W) - RDFXB43507ED**

**Low speed - RDFXB43507ED**

$\Delta T \setminus$ Cold room Temp	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C	0 °C	2 °C	4 °C
5 K	2100	2158	2217	2275	2477	2680	2882	3084	3424	3763	4103
6 K	3119	3179	3240	3300	3517	3735	3952	4169	4386	4604	4821
7 K	4090	4150	4210	4270	4492	4714	4935	5157	5353	5548	5744
8 K	5050	5066	5082	5098	5364	5629	5895	6160	6359	6559	6758
9 K	5832	5895	5958	6021	6306	6591	6875	7160	7362	7565	7767
10 K	6594	6697	6801	6904	7200	7497	7793	8089	8291	8493	8694

**High speed - RDFXB43507ED**

$\Delta T \setminus$ Cold room Temp	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C	0 °C	2 °C	4 °C
5 K	2752	2770	2789	2807	3097	3387	3677	3967	4358	4749	5140
6 K	4015	4040	4065	4090	4372	4654	4935	5217	5453	5689	5924
7 K	5156	5185	5214	5243	5538	5834	6129	6424	6638	6853	7067
8 K	6137	6221	6305	6389	6716	7043	7370	7697	7898	8100	8301
9 K	7069	7208	7348	7487	7812	8136	8461	8785	8978	9171	9363
10 K	7867	8068	8270	8471	8799	9127	9455	9783	9986	10189	10392

Values referred to :  
Gas R744



INDICATIVE PRODUCT IMAGE

### General features

- RDX range unit coolers have been designed to be installed inside cold rooms suited for fresh and frozen goods storage.
- The main feature of this range is of throwing air from both sides; this allow the unit cooler to be placed in the middle of the cold room ceiling giving a uniform air flow and, as a result, the best product conservation
- RDX 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 RDX range is supplied as standard with EC fan motors (Identified by the letter "B") and blade with special profile for combine higher efficiency and low absorption.
- The heat exchangers of all the range have been designed for operating at a working pressure PS up to 75 bar: this value gives a big advantage in cases of the plant stop (it reduces possible needs of CO2 discharge) and also it enable the possible use of the same model for both low temperature coldrooms (-40°C) up to high temperature applications, close to the air conditioning limits (+15°C)

### COIL

- The range consist of two types of coils, both made of aluminium fins and copper tube: 5/16" tube increased thickness with a geometry of 25x21,65, for models with 250mm fan diameter, 12mm K65 tube increased thickness with a geometry of 37,5x32,5 for models with 350mm fan diameter.
- The model types having 250mm fan diameter are fitted with a coil of 4,5mm/9mm fin spacing, suited for applications with a cold room temperature (Tc) from -30°C to +15°C.
- 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 coils are tested with nitrogen at a pressure of 75 bar.

### FAN MOTORS

- The fan motor models in use have the following features:
- Manufactured following EN 60335-1 laws, with internal thermal protection
- fan diameter 250 mm, 28° inclination with special profile: power supply 230V/1/50-60Hz, IP55 protection rate, B insulation class, operating temperature from -40°C to +50°C
- fan diameter 350mm external rotor: power supply 220-240V/1/50Hz, double speed (950-1450 rpm), IP54 protection rate, B insulation class, operating temperature from -40°C to +40°C
- electric 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.

### OPTIONAL

- Varnished coil
- Drainage pipe heater of 220V/1/50Hz voltage (for different voltages please contact our technical dept).