

RXCBA RCF

Heat pump

RXCA RCF

Cooling only



ROOF TOP AIR-AIR UNITS | RCF
Axial fans

Solutions for Roof Terraces with high flow rates, flexible and adaptable for each project

Autonomous compact Roof Top units with heating cooling recovery and thermal freecooling as standard, especially designed for installation on rooftops, roof terraces or in any other outdoor location with air distributed treated in ducts.

MAIN FEATURES

- Maximum cooling capacities ranging from 162 to 192.3 kW
- Scroll compressor
- Cabinet: built from galvanised steel plate corrosion resistant and providing protection from the elements
- Axial fans in outdoor section, prepared for outdoor installation
- Centrifugal fans in indoor section with low noise level
- Thermal freecooling

ADVANTAGES

- Maximum partialisation up to 9 stages depending on models
- Optimised design for easy access to the main components, facilitating maintenance tasks
- Scroll compressors, specially designed for heat pump applications; they provide very wide operational limits

AVAILABLE VERSIONS

- Cooling only
- Heat pump

REGULATION

Controls available:

PGD



MINI PGD



See regulation and control on page 22.

RXCBA / RXCA RCF SERIES

MODEL		5002	6002
CAPACITIES		20% air recovery	
Total cooling capacity (1)	kW	202.90	233.40
Cooling power input total (3)	kW	65.45	77.80
EER coefficient		3.1	3.0
Total heating capacity (2)	kW	202.90	233.90
Pump power input total (3)	kW	59.68	70.88
COP coefficient		3.4	3.3
		40% air recovery	
Total cooling capacity (1)	kW	223.75	261.90
Cooling power input total (3)	kW	64.91	78.15
EER coefficient		3.4	3.4
Total heating capacity (2)	kW	204.10	235.20
Pump power input total (3)	kW	61.78	70.25
COP coefficient		3.3	3.3
		60% air recovery	
Total cooling capacity (1)	kW	244.60	290.40
Cooling power input total (3)	kW	64.37	78.49
EER coefficient		3.8	3.7
Total heating capacity (2)	kW	205.30	236.70
Pump power input total (3)	kW	58.66	69.62
COP coefficient		3.5	3.4
		80% air recovery	
Total cooling capacity (1)	kW	237.40	272.10
Cooling power input total (3)	kW	71.94	85.03
EER coefficient		3.3	3.2
Total heating capacity (2)	kW	222.50	257.00
Pump power input total (3)	kW	57.05	69.46
COP coefficient		3.9	3.7
Cooling energy classification (4)		A	B
Heating energy classification (4)		B	B
Airflow	m ³ /h	28,100	32,800
Discharge pressure available	Pa	150	175
Return pressure available	Pa	85	100
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N
Dimensions (length x width x height)	mm	4,800 x 2,100 x 2,760	4,800 x 2,100 x 2,760
Net weight	kg	3,450	3,480

(1) Nominal cooling conditions: outside air temperature: 35 °C. Return temperature 27 °C (dry bulb) / 19 °C (wet bulb).

(2) Nominal heating conditions: outdoor air temperature 7 °C (dry bulb) / 6 °C (wet bulb). Return temperature 20 °C.

(3) Total power input for compressors (not taking in to account ventilation)

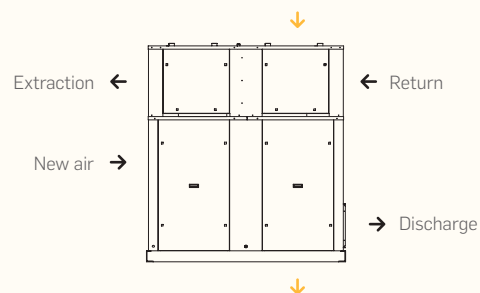
(4) According to the Eurovent energy classification.

FLEXIBILITY OF INSTALLATION RCF

→ Standard

→ Optional

Any combination of discharge and return is valid, taking into account that there can only be one discharge and one return.



AVAILABLE OPTIONAL FEATURES

ENERGY SAVING

- Enthalpy freecooling
- Compressor soft-start
- Soft-start of the indoor and/or outdoor fan
- Condensation control by voltage converter
- Heat recovery of cooling units (R-404, etc.)
- EC indoor plug fan
- EC type axial fans

AIR QUALITY

- Gravimetric filter in return G4
- Opacimetric filter in return class F6 to F9 (combinable with a G4 or Fx+Fy)
- Outdoor model for on-rail F filters

NOISE LEVEL

- Double thermo-acoustic insulation
- Compressor acoustic insulation
- Low noise outdoor fan section

UNIT INSTALLATION

- Magneto-thermal switches in the electrical panel
- Power supply at 60 Hz and voltages of 230, 208, etc.
- Option of manufacturing units with symmetric configuration
- Pressure motors
- Anti-freeze resistance operation in collection tray
- Lower indoor air discharge
- Upper indoor air return
- Thermo-acoustic insulation
- Hot gas bypass
- Heating coils for hot water
- Electric resistance coils for auxiliary electric heating
- Anti-corrosion treated coils
- Fireproof filter class M1

- Thermal insulation Euroclass A1 (M0)
- Condensation fan with pressure available
- Condensation tray in outside section
- Protective grille in outdoor section exchangers
- Drip separator

MAINTENANCE

- Service valves
- Pressure gauges outdoors to read pressures
- External pressure taps
- Detector of dirty filters

REGULATION AND CONTROL

- PGD and Mini PGD thermostat
- Alarm signalling
- Smoke detection
- Remote run/stop
- Separate electrical panel
- Unit without thermostat
- Option for master-slave operation
- Ambient temperature or wall-mounted sensor
- Return temperature sensor in duct
- Air quality sensor
- Operation for redundant machine
- Centralised comprehensive management operation
- Operation without neutral
- Scheduling function and Modbus connection, etc. (refer to the Thermostats chapter)

As well as these options, please check with our Commercial Department for any other configuration or function not described as available.