

ROOF TOP UNITS

**CENTRIFUGAL FANS
HEAT RECOVERY****RCCA RCF**

Cooling only

RCCBA RCF

Heat pump

*Shopping centres,
multiplex cinemas, large
department stores, etc.*



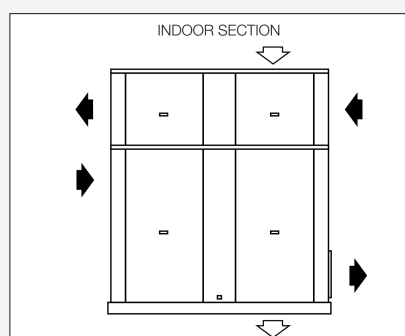
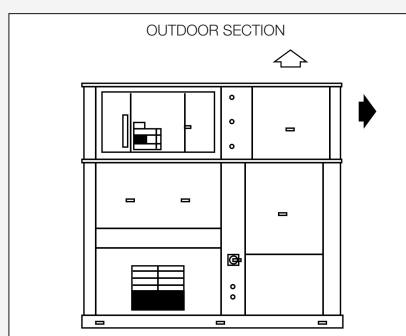
The RCCA/RCCBA RCF series units are self-contained compact roof top units with centrifugal fans on the two sections, suitable for indoor installation. Air distribution is channelled through ducts. The heat recovery system uses an additional cooling circuit as a heat exchanger. This purpose of this new circuit is to transfer the energy from the exhaust air to the new ventilation air.

MAIN FEATURES

- Cooling capacities ranging from 53.1 to 101.9 kW
- Scroll Compressors
- Maximum partialisation up to 4 stages according to models
- Maximum air quality and comfort. Option to install F type high efficiency filters (F6 to F9)
- 3 versions available: with cooling heat recovery (RCF), with gas burner module (GAS) and special high ambient temperature version (ATA)
- Thermostat – PGD (all models)

POSSIBLE AIR SUPPLY / RETURN CONFIGURATIONS

◆ standard ◇ optional



RCCA/RCCB TECHNICAL SPECIFICATIONS

MODEL		1402	1602	2002	2402	3002
Total cooling capacity	kW	53,1	60,6	75,4	92,3	101,9
Main circuit cooling capacity	kW	40,2	46,6	58,9	71,1	80,2
Recovery circuit cooling capacity	kW	12,9	14,0	16,5	21,2	21,7
Total cooling capacity	R.T.	15,1	17,2	21,4	26,2	29,0
Main circuit cooling capacity	R.T.	11,4	13,2	16,7	20,2	22,8
Recovery circuit cooling capacity	R.T.	3,7	4,0	4,7	6,0	6,2
Total heating capacity	kW	55,7	60,1	76,9	93,1	105,5
Main circuit heating capacity	kW	43,8	47,2	61,7	72,5	85,1
Recovery circuit heating capacity	kW	11,9	12,9	15,2	20,6	20,4
Power supply (50 Hz ~)	V	400,3+N	400,3+N	400,3+N	400,3+N	400,3+N
EER	kW/kW	2,9	2,9	2,8	2,9	3,0
COP	kW/kW	3,3	3,3	3,1	3,1	3,2
Cooling energy rating		B	B	C	B	B
Heating energy rating		B	B	C	C	C
Airflow	m³/h	7,800	9,500	12,318	14,075	14,980
Available discharge pressure	Pa	100	100	135	115	115
Available return pressure	Pa	75	85	85	85	85
Dimensions (length x width x height)	mm	2702x2300x2185	2702x2300x2185	2702x2300x2185	2702x2300x2390	2702x2300x2550
Net weight	Kg	1720	1725	1775	1840	1904

OPTIONS AVAILABLE**ENERGY SAVING**

Thermal or enthalpy regulation for incorporated free cooling with PCO control card and PGD control

Compressor soft-start

Soft-start of the indoor and/or outdoor fan

Heat recovery of cooling units (R-404a, etc.)

Head pressure control by frequency converter.

EC plugfan type indoor fan

**AIR QUALITY**

Gravimetric filter in return G4

Opacimetric filter in return class F6 to F9 (combinable with a G4 or Fx+Fy)

Outdoor module for F Filters on rail

**SOUND LEVEL**

Double thermo-acoustic insulation

Compressor sound jacket

**UNIT INSTALLATION**

Magnetothermics in electrical panel

Power supply at 60Hz and voltages 230, 208, etc.

Option of manufacturing units with symmetric configuration

Upgraded motors

Indoor flow rate control when the filters clog up

Anti-freeze heater for condenser in tray

Bottom indoor air discharge

Rear indoor air discharge (with EC plugfan fans)

Top indoor air return

Fireproof filter class M0

Thermo-acoustic insulation class M0

Gas Burner (essential PGD thermostat)

Hot gas bypass

Hot water heating coils

Electric resistance coils for auxiliary electric heating

Anti-corrosion pre-treated coils

Prepared for disassembly

Roof curb

Condensation fan with pressure available

Protective grille in outdoor section exchangers

Drip separator

**MAINTENANCE**

Service valves

Pressure gauges outdoors to read pressures

External Schrader valves for pressure test

Clogged filter indication

**REGULATION AND CONTROL**

PGD thermostat

DSX@ thermostat (with man. 24 V)

SUPER SI thermostat (with man. 24 V)

Alarm indication

Smoke detection

ON/OFF remote

Separate electrical panel

Option of master-slave operation

Ambient temperature wall sensor

Temperature sensor in duct

Air quality sensor

Operation for redundant machine

Centralised integrated management operation

Operation without neutral

Scheduling function and Modbus connection, etc. consult Thermostat chapter

Versions for other climates

Versions for other power supplies

As well as these options consult our Commercial Department for any other configuration or function not described as available.