

ROOF TOP UNITS



CENTRIFUGAL FANS

RCCA

Cooling only

RCCBA

Heat pump

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



The RCCA/RCCBA 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.

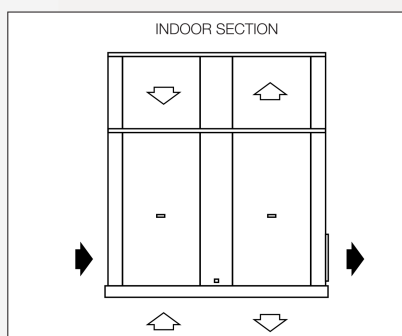
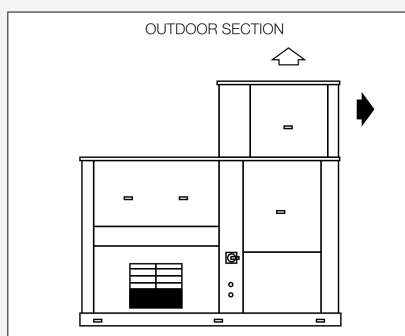
MAIN FEATURES

- Cooling capacities ranging from 40.7 to 84.5 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: standard (STD), with gas burner module (GAS) and the special high ambient temperature version (ATA)
- Standard thermostats and controls for standard units with electromechanical regulation

ARIA – models 1402 to 3002

POSSIBLE AIR SUPPLY / RETURN CONFIGURATIONS

▶ standard ◀ optional

**RCCA/RCCB** TECHNICAL SPECIFICATIONS

MODEL		1402	1602	2002	2402	3002
Nominal cooling capacity	kW	40.7	46.2	61.2	71.5	84.5
Nominal cooling capacity	R.T.	11.6	13.1	17.4	20.3	24.0
Nominal heating capacity	kW	42.2	48.6	63.4	74.6	87.5
Power supply (50 Hz ~)	V	400.3+N	400.3+N	400.3+N	400.3+N	400.3+N
EER	kW/kW	2.7	2.6	2.6	2.7	2.8
COP	kW/kW	2.9	2.8	2.9	3.0	3.2
Cooling energy rating		C	D	D	C	C
Heating energy rating		D	D	D	D	C
Airflow – Static pressure	m ³ /h – Pa	7800-100	9500 – 100	12318 – 135	14075 – 115	14980 – 115
Dimensions (length x width x height)	mm	2702x2300x2185	2702x2300x2185	2702x2300x2185	2702x2300x2390	2702x2300x2550
Net weight	Kg	1500	1500	1536	1550	1600

OPTIONS AVAILABLE



ENERGY SAVING

Option of mixing module for free cooling with two or three dampers
Thermal or enthalpy regulation 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
New air supply damper



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
Top indoor air discharge
Rear indoor air discharge (with EC plugfan fans)
Bottom indoor air return
Top indoor air return
Fireproof filter class M0
Gas burner (essential PGD thermostat)
Thermo-acoustic insulation class M0
Hot gas bypass
Hot water heating coil
Electric resistance coils for auxiliary electric heating
Anti-corrosion pre-treated coils
Prepared for disassembly
Roof curb
Condensation fan with higher 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
High pressure switch reset from thermostat
Unit without thermostat
Ambient temperature wall sensor
Return temperature 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.