

NEW

## RCAS-R



Air flow rates  
from 3,000 to 22,000 m<sup>3</sup>/h



Ventilation unit with dynamic air-air recovery consisting of a high efficiency enthalpic rotor, made of aluminium alloy with hygroscopic treatment, with cooling circuit and free-cooling management.

## Optimisation of HVAC performance

### MAIN SPECIFICATIONS

- Air flows from 3,000 to 22,000 m<sup>3</sup>/h
- Dynamic air-air recovery consisting of a high-efficiency, Eurovent-certified enthalpic rotor, made of aluminium alloy with a hygroscopic treatment, with a cleaning sector and belt drive motor for free-cooling management in on/off mode
- Single-inlet plug-fan with backward curved blades, directly coupled to EC brushless electronic motors
- F7 efficiency bag filters in the outdoor air circuit and rigid M5 filters in the exhaust air circuit, laterally removable
- Supporting structure made of extruded aluminium profiles and panels (esp. 42 mm) with special sealing gaskets, outdoor finish RAL 9002; thermo-acoustic insulation made of class 0 mineral wool

### CONTROLLER

- Electric panel with remote display and microprocessor to manage the thermoregulation at the fixed point of supply, based on operating logics designed to maximise energy savings and environmental comfort thanks to the modulation of the air flow guaranteed by inverter technology
- The unit is prepared for connection via RS485 to monitoring systems based on the Modbus RTU protocol

RCAS-R								
MODEL		35	50	80	92	144	205	250
<b>PERFORMANCE</b>								
Nominal Air Flow	m <sup>3</sup> /h	3,000	5,200	7,300	9,500	13,000	18,000	22,000
Available nominal static pressure	Pa	250	250	250	250	250	250	250
Recovery efficiency (1)	%	77.4	77.7	77.1	76.8	77.2	75.9	74.7
EER		4.9	4.4	4.3	3.8	4.0	3.6	3.5
Total refrigeration capacity (1)	kW	18.9	33.4	46.4	61.9	84.6	115.9	139.9
Recovery efficiency (2)	%	77.8	78.1	77.5	77.2	77.6	76.4	75.0
COP		12.8	11.9	11.4	10.05	11.1	9.8	9.9
Total heating output (2)	kW	40.1	69.5	97.4	126.6	173.4	236.8	288.2
<b>SOUND LEVEL</b>								
Sound Output	dBA	64	70	77	82	78	83	81
Sound level at 2 m (3)	dBA	50	56	63	68	64	69	67
<b>FUNCTIONAL LIMITS</b>								
Temperature range of the inlet air	°C	-7~36						
<b>ELECTRICAL DATA</b>								
Power supply (50 Hz ~)		400.3+N						
Maximum operating intensity	A	25.0	37.0	41.0	57.0	78.0	104.0	134.0
<b>DIMENSIONS AND WEIGHT</b>								
Dimensions (length x width x height)	mm	3,750 x 1,360 x 1,510	3,750 x 1,690 x 1,510	4,410 x 1,855 x 1,840	4,410 x 2,020 x 1,840	4,740 x 2,350 x 2,170	4,410 x 2,350 x 2,500	4,410 x 2,845 x 2,500
Net weight	kg	900	1,050	1,200	1,300	1,500	1,700	2,050

(1) Outdoor air at 32° C 50% RH, ambient air at 26° C 50% RH; nominal airflow rates (2) Outdoor air at -10° C 90% RH, ambient air at 22° C 50% RH; nominal airflow rates

(3) Directivity Factor 2: Source radiating in hemisphere (machine on a reflecting surface).