

RSO

RSE

HORIZONTAL DEHUMIDIFIERS FOR RADIANT SYSTEMS



RSE 020

The fitted vertical dehumidifiers of the horizontal ductable dehumidifiers for drop ceilings of the **RSO / RSE** range are designed for civil, residential and commercial environments with high latent load that require 24hrs/day operation. These are particularly suitable for buildings cooled by radiant systems, such as flooring, walls or ceiling. HiDew dehumidifiers can be connected and monitored with RS485 serial port.

R-513a refrigerant gas is used for **RSO / RSE 020, 035, 050** units.

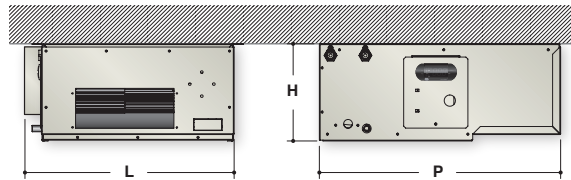
R-410a refrigerant gas is used for **RSE 100** units.

Technical sheet of the range		RSO 020 A	RSO 020 I	RSE 020 A	RSE 020 I	RSO 035 A	RSO 035 I
Dehumidifying capacity	L/Day	20	20	20	20	28	28
Air flow rate	m³/h	250	250	250	250	350	350
Available static prevalence	Pa	40	40	180	180	30	30
Cooling power	W	/	1240	/	1240	/	1740
Sound level	dB(A)	38	38	39	39	39	39
Power supply	V/ph/Hz	230 / 1~ +N / 50					
Dimensions (base x depth x height)	mm	530 x 600 x 242				680 x 600 x 242	

Technical sheet of the range		RSE 035 A	RSE 035 I	RSE 050 A	RSE 050 I	RSE 100 A	RSE 100 I
Dehumidifying capacity	L/Day	28	28	48	48	100	100
Air flow rate	m³/h	350	350	250	600	1000	1000
Available static prevalence	Pa	180	180	150	150	150	150
Cooling power	W	/	1740	/	3360	/	6800
Sound level	dB(A)	40	40	43	43	46	46
Power supply	V/ph/Hz	230 / 1~ +N / 50					
Dimensions (base x depth x height)	mm	680 x 600 x 242		760 x 650 x 350		1000 x 600 x 450	

All the values refer to the following conditions: Air temperature 26°C, Relative humidity 65%, Water temperature 15°C

The **RSO** dehumidifiers are provided with 3-speed centrifugal fan, in order to achieve the lowest noise level. In case of higher available pressure is needed, the **RSE** models are provided with EC electronic fan, adjustable air flow by potentiometer. The models 050 and 100 are available only with EC electronic fan.



The RSO and RSE range consists of two versions : A – I

A = Neutral air version (isothermal): The letter “A” represents the neutral air isothermal dehumidifier with air condensation, which is supplied with pre and post cooling coils as standard. The outlet air is the same temperature as the inlet air.

I = Cold integration version: The letter “I” represents the dehumidifier that can add cold power to the radiant system. Thanks to a brazed plate condenser, the “I” models cool the air when required, just as a normal air-conditioner. This function is particularly useful, during half seasons, due to the high difference in temperature, or when cooking or when guests arrive. The “I” models must always receive water from the radiant system in order to operate.

Included:

- Remote on-wall graphic display
- Time bands program
- Multi-speed fresh air
- Electronic radial fans with brushless engine and inverter integrated
- Timed signal for air filters check
- Boost mode for fresh air
- Supply temperature control



Options:

- Mechanical humidistat
- Mechanical humidistat for in-wall installation
- Two-steps hygrostat
- Chrono-Thermo hygrostat summer/winter
- Supply flange
- Kit frame for suction ducting
- High efficiency filters
- RS485 serial port
- Rubber antivibration
- Supply plenum
- Air distribution: see chapter WMC