

**RDE**

**HORIZONTAL AND VERTICAL  
POLYPROPYLENE HEAT RECOVERY UNIT**



Air quality and purity, temperature and humidity are critical for comfort, especially during the winter when opening the windows for air results in a significant loss of heat and discomfort for the occupants. In this case a system of controlled mechanical ventilation is the best solution to maintain both the levels of energy performance and the quality of the indoor air. Recent regulations on energy saving in buildings combined with increasingly efficient thermal insulation and ever-better fitting of doors and windows, have definitely made our homes more comfortable both thermally and acoustically. This, however, has also transformed them into potential “hazardous, sealed traps” where pollutants used in the production process (such as formaldehyde) can be spontaneous released. To achieve adequate air renewal in the building and to ensure good indoor air quality, it is essential to install a controlled mechanical ventilation system. Air renewal is essential for clean living air. The European Parliament has legislated on this, citing ventilation as a “need” for the building. This “need” can clash with the need to improve the building’s energy performance to reduce consumption to a minimum. Controlled mechanical ventilation with RDE of HiDew heat recovery is the best solution to reduce the energy needs of a building and at the same time improve the healthiness of the spaces.

Technical sheet of the range		RDE 020	RDE 035
Efficiency rate		A / A+	
Nomnal air flow	m³/h	200	350
Heat recovery efficiency	%	90	90
Recovered heating power in winter (1)	W	1520	2576
Recovered heating power in summer (2)	W	525	533
Maximum power absorbed (3)	W	136	179
Sound power lwa	dB(A)	50	50
Power supply	V / Ph / Hz	230 / 1~ +N / 50	230 / 1~ +N / 50
Useful static head maximum speed	Pa	160	100
Dimensions (base x depth x height)	mm	870 x 660 x 300	870 x 660 x 300
Empty weight	kg	19	20
Nozzle diameter	mm	160	160

(1) The efficiency and thermal power recovered in winter are declared with ambient air + 20 ° C 50% RH and outdoor air -5 ° C 80% RH.  
 (2) The heat output recovered in summer is declared with ambient air + 26 ° C 50% RH and outdoor air + 35 ° C 70% RH.  
 (3) Maximum total value, including the two fans and electronics.

	STANDARD CONTROL	ADVANCED CONTROL
Wall-mounted graphic control display with temperature sensor, complete with shielded connection cable L.2 m	-	OPTION
Wall-mounted graphic control display with temperature and humidity sensors, complete with screened connecting cable L.2 m	-	OPTION
3-speed control	INCLUDED	-
Multi-speed control	-	INCLUDED
Turbo mode	-	INCLUDED
Time band programming	-	INCLUDED
Electronic fans with brushless motor and built-in inverter	INCLUDED	INCLUDED
Timed signalling of dirty filters	INCLUDED	INCLUDED
Fault signalling	INCLUDED	INCLUDED
Intelligent automatic defrosting	INCLUDED	INCLUDED
Free-cooling	INCLUDED	INCLUDED
RS485 - Modbus serial card	-	OPTION
High efficiency air filter set	OPTION	OPTION
5, 10 or 20 metre shielded display connection cable	-	OPTION
CO2 probe	-	OPTION
Ioniser control	-	INCLUDED
Duct water battery	OPTION	OPTION
Outlet temperature control kit	-	OPTION



Sample of standard control (not supplied)



**Lightness**  
( 19 Kg )



**Efficiency**



**Quality**



**Installation flexibility**



**Easy maintenance**

**THE HEAT RECOVERY SYSTEMS:**

- Increase efficiency class and property value
- Renew air without dispersing heat
- Reduce danger of allergies

