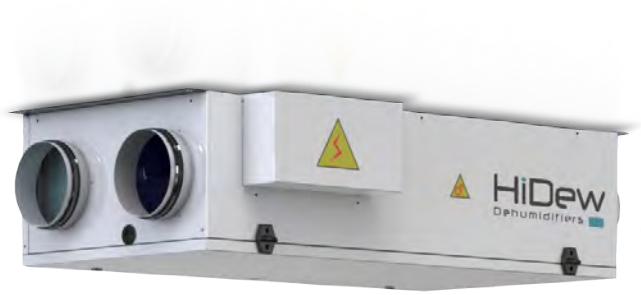
ROE RVE

HEAT RECOVERY SYSTEMS

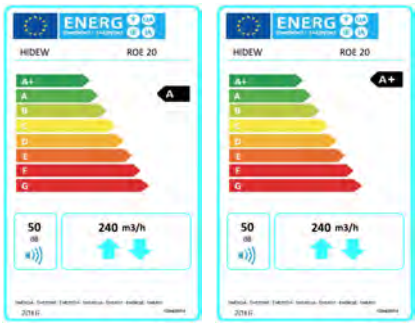


Air quality and purity, temperature and humidity are critical for comfort, especially during the winter when opening the windows for air results in a significant loss of heat and discomfort for the occupants. In this case a system of controlled mechanical ventilation is the best solution to maintain 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 **ROE** and **RVE** 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		ROE				RVE	
		10	20	35	50	35	50
Efficiency rate		A / A+					
Nominal air flow rate	m³/h	100	200	350	500	350	500
Heat recovery efficiency	%	93	91	90	88	90	88
Recovered heating power in winter	W	790	1547	2660	3732	2660	3732
Recovered heating power in summer	W	270	538	920	1280	920	1280
Rated power consumption	W	21	40	75	85	75	85
Sound level	dB(A)	49	50	51	49	50	49
Power supply	V/ph/Hz	230 / 1~ +N / 50					
Available static pressure maximum speed	Pa	150	160	150	160	150	160
Dimensions (base x depth x height)	mm	850x580x200	1000x580x270	1000x730x270	1000x730x400	510x700x860	510x700x860

The recovered heat power and yield values are stated in the indoor air 20°C / 50% RH and outdoor air -5°C / 80% RH points

	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)

THE HEAT RECOVERY SYSTEMS:

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