

HEAT RECOVERY SYSTEMS

ROE

ROC

RVE



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**, **RVE** and **ROC** 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.

		ROE				RVE		ROC	
Technical sheet of the range ROE, RVE, ROC		10	20	35	50	35	50	10	20
Nominal air flow rate	m ³ /h	100	200	350	500	350	500	100	200
Efficiency	%	93	91	90	88	90	88	93	93
Recovered heating power in winter	Watt	790	1547	2660	3732	2660	3732	790	1580
Recovered heating power in summer	Watt	270	538	920	1280	920	1280	270	540
Rated power consumption	Watt	21	40	75	85	75	85	--	--
Power supply	V/ph/Hz	----- 230/1/50 -----							
Available static pressure maximum speed	Pa	150	160	150	160	150	160	--	--
Load losses	Pa	--	--	--	--	--	--	110	110
Air connections diameter	mm	4x125	4x160	4x180	4x180	4x180	4x180	4x125	4x160

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

	STANDARD CONTROL	DEVELOPMENT CONTROL
Electronic fans with brushless motor and built-in inverter	STANDARD	STANDARD
Correct fan rotation control	STANDARD	STANDARD
Intelligent automatic defrost	STANDARD	STANDARD
3 speed setting	STANDARD	--
Multi-speed setting	--	STANDARD
Timed dirty filters signalling	STANDARD	STANDARD
General fault signalling	STANDARD	--
Detailed fault signalling	--	STANDARD
Graphic adjustment display to be placed on the wall	--	STANDARD
Boost mode	--	STANDARD
Programming by time bands	--	STANDARD
RS485 serial port	--	OPTIONAL
Free-cooling	OPTIONAL	OPTIONAL
Dirty filters pressure switch	--	OPTIONAL
Humidity sensor	--	OPTIONAL
CO2 sensor	--	OPTIONAL
VOC sensor	--	OPTIONAL
Air purifier	--	OPTIONAL
Coil water duct	OPTIONAL	OPTIONAL
Supply temperature control kit	--	OPTIONAL
High-efficiency air filtering set	OPTIONAL	OPTIONAL
Air supply at constant flow	--	OPTIONAL
Air supply at constant pressure	--	OPTIONAL



THE HEAT RECOVERY SYSTEMS:

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

