Heat recovery unit

VMC-E

Air flow rate 250÷1.300 m³/h

Features

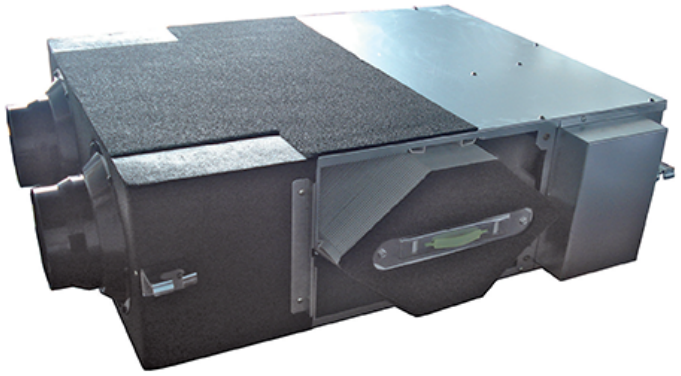
Extremely compact

High efficiency recovery

Very silent

Brushless DC fans

Tax incentives*



Fresh air terminal unit with counterflow static heat recovery.

Construction features

• Galvanised sheet steel self-bearing structure, insulated internally and externally.
• Recovery unit: thanks to a high yield static type heat exchanger with back-current flows consisting of flat layers of special paper that allow total heat exchange, thereby recovering both sensitive and latent heat. The air flows are kept separate with relevant sealing. Maintenance is easily performed on the heat exchanger and filters thanks to side extraction.
• By-pass motorised system of the recovery unit actuated automatically by the electronic control
• Air filtration in F9 efficiency class (with G3 pre-filter) on the fresh air and G3 filter on return air.
• Integrated dirty filter signal pressure switches
• Fans: fresh air inlet and centrifugal exhaust with BRUSHLESS EC motors that allow higher efficiency to be achieved in comparison to traditional motors with energy savings of up to 60%. 10-speed management option.
• Ducting connections with plastic round fittings.
• Incorporated electrical panel with electronic board to control the freecooling and fan functions.

Separately supplied accessories

• KSBE1: electric pre-heating heater with defrost function complete with safety thermostats and control relay, which can be activated from the KPCM panel
• KSBE2: electric post-heating heater complete with safety thermostats and control relay, which can be activated from the KPCM panel
The two units cannot be managed at the same time, so they are one as an alternative to the other

Controls

• KPST- Touch screen remote control panel
• KQSW- CO2 wall sensor for fan adjustment
• KUSW- Wall humidity sensor for fan adjustment

Technical data

	VMC MODEL		25	35	50	80	100	130
	Nominal air flow rate	m³/h	250	350	500	750	1000	1300
	Nominal available static pressure	Pa	90	140	110	140	140	140
	Total nominal absorbed power	W	80	130	150	320	390	500
	Total maximum absorbed current	A	0,5	0,6	0,6	1,4	2,1	2,7
❶	Sound pressure	dB(A)	34	37	39	42	43	44
❶	Sound pressure	dB(A)	34	37	39	42	43	44
	Electrical supply	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
	Motor type		EC	EC	EC	EC	EC	EC
	Speed number		10	10	10	10	10	10
„ ❹	Int S.F.P.	W/m³/s	812	670	547	865	881	873
„ ❹	Declared type		NRVU-BVU	NRVU-BVU	NRVU-BVU	NRVU-BVU	NRVU-BVU	NRVU-BVU
	HEAT RECOVERY							
❷	Winter efficiency (temp/enthalpy)	%	73/65	74/65	76/67	76/65	76/62	74/59
❸	Summer efficiency (temp/enthalpy)	%	73/62	74/62	76/63	76/63	76/60	74/58
„ ❹	Dry thermal efficiency	%	73	74	76	76	76	74
	ACCESSORIES							
	KSBE1-Heating capacity	kW	1	1	1,5	2,5	2,5	2,5
	KSBE1-stages	n°	1	1	1	1	1	1
	KSBE2-Heating capacity	kW	1	1	1,5	3	3	3
	KSBE2-stages	n°	2	2	2	2	2	2
	DIMENSIONS AND WEIGHTS		**25**	**35**	**50**	**80**	**100**	**130**
	Length	mm	814	814	894	1186	1199	1199
	Depth	mm	599	804	904	1134	1216	1216
	Height	mm	270	270	270	388	388	388
	Weight	Kg	30	37	43	71	83	83

Data at the following conditions:

❶ Sound pressure level assessed at 1 m, with all 4 air nozzles ducted, on the machine inspection side and under nominal operating conditions

❷ Nominal winter conditions: outdoor air: –5°C; 80% TH. Ambient air: 20°C; 50% UR.

❸ Nominal summer conditions: outdoor air: 32°C; 50% TH. Ambient air: 26°C; 50% UR.

„ ❹ According to EU Regulation 1253/2014

RHOSS S.P.A.
Via Oltre Ferrovia, 32
33033 Codroipo (UD) - ITALY
tel. +39 0432 911611
rhoss@rhoss.com

rhoss.com