Technical data for the M-WRG

Unit types	M-WRG-S	M-WRG-S/Z-T (F, FC)
Type of system	Decentralised, heat recuperation	
Air flow (m³/h)	15 to 97	
Output control	4-level on the unit, 10-level with accessories	6-level on the pushbutton sensor 10-level with accessories or with humidity/CO_2 sensors
Heat exchanger	Cross-flow	
Max. heat recovery efficiency, η_0, DIN EN 13141-8 (%)	71	
Moisture recovery η_x (%)	No	
Motor / supply air fan / extract air fan	EC direct current, radial	
Electrical power consumption (W), free blowing	2.5 to 37	
Standby power consumption (W)	Roughly 1 W (according to manufacturer)	
Specific electrical power consumption of the fans (W/m³/h) at 40 m³/h / ref. vol. flow rate 69 m³/h, free blowing	0.14 / 0.24	
Constant volume flow rate / balanced ventilation	No / Yes	
Max. current consumption (A)	0.16	
Operating voltage (V) / mains frequency (Hz)	85 − 265 / 50 − 60	
Sound pressure level surface-mount (LpA in dB, 10 m²)	19.0 to 46	
Sound pressure level flush-mount (LpA in dB, 10 m²)	15.5 to 46.5	
Sound pressure level for integrated into wall U² with ductwork connection on extract air side (LpA in dB, 10 m²)	12.4 to 41.9	
Sound insulation for weighted standardised sound level difference, unit in use, depending on installation version (D $_{n,e,w}$ in dB)	50 to 56	
Permitted temperature range of outdoor air during operation at a room temperature of at least 20 °C (in °C)	-22 to +40	
Permitted ambient air humidity during operation (%, RH)	Up to approx. 70	
Weight (kg)	7.3	
Colour	White similar to RAL 9010	
Outdoor air / exhaust air connection (DN)	100	
Dimensions (W x H x D) in mm	388 x 409 x 196	
Possible installation methods	Surface-mount, flush-mount, integrated into wall U²	
Ductwork connection possible?	Yes, with accessories	
Visible unit depth surface-mount/flush-mount/integrated into wall U² (mm)	196 / 66 / -	
Filter type	Round filter cartridges for outdoor air and extract air	
Outdoor air / extract air filter class, optional allergy filter/activated charcoal filter for outdoor air (ISO 16890-1:2016-12 or EN 779: 2012-10)	ISO ePM10 65 % (G4) / ISO ePM10 65 % (G4), ISO ePM1 60 % (F7) / ISO ePM10 60 % (M6)	
Filter monitoring with filter change indicator	Time-dependent, audible	Time-dependent, audible or visual via InControl pushbutton sensor
Condensate drain	Via exhaust air pipe/outer wall terminal or condensate connection provided by the customer	
Fully automatic cover flap control (when switching On / Off, in Standby mode and if the power fails)	Yes	
"Unit OFF" input (smoke detector, window contact)	No	
IP code (standard/with protective cap for mains switch/ with integrated into wall U₂ installation version)	IPX1 / IPX4 / IPX5	
Humidity control	Optional with accessories	Optional with accessories or with F unit version
CO_2 control	Optional with accessories	Optional with accessories or with FC unit version
Automatic mode (humidity and CO_2 control)	Optional with accessories	Optional with accessories or with FC unit version
TÜV-tested	Yes	
Tested to/compliant with VDI 6022 sheet 1	Yes, no. W-377516-23-Zd[1]	
Passivhaus certificate (PHI)	No	
National technical approval (DIBt)	Z-51.3-138	
Energy efficiency class	B/A²	B/A²

[1] With the optional outdoor air filter ISO ePM1 60% (F7)

[2] In combination with the external wireless humidity / CO_2 sensor or with humidity / CO_2 sensors (F, FC unit version)