

Technical data for the M-WRG-II

Unit types	M-WRG-II P / M-WRG-II E	M-WRG-II P (F, FC) / M-WRG-II E (F, FC)
Type of system	Decentralised, heat recuperation	
Air flow (m ³ /h)	10 to 100	
Output control	5-level on the unit, 10-level with accessories	5-level on the unit, 10-level with accessories, infinitely variable with humidity/CO ₂ sensors
Heat exchanger	Cross-counterflow / enthalpy cross-counterflow	
Max. heat recovery efficiency, η_0 , DIN EN 13141-8 (%)	94 / 87	
Effective heat recovery PHI (%), U ² version with ductwork connection	82 / 78	
Moisture recovery η_x PHI (%)	No / 55	
Motor / supply air fan / extract air fan	EC direct current, radial	
Electrical power consumption (W), free blowing	4.6 to 52.4 / 4.5 to 51.2	
Standby power consumption (W)	0.8	
Specific electrical power consumption of the fans (W/m ³ /h) at ref. vol. flow rate 70 m ³ /h, free blowing	0.33 / 0.31	
Constant volume flow rate, balanced ventilation	Yes	
Max. current consumption (A)	0.41 / 0.42	
Operating voltage (V) / mains frequency (Hz)	85 – 265 / 50 – 60	
Sound pressure level surface-mount (LpA in dB, 10 m ²)	17.5 to 48.1 / 11.6 to 46.7	
Sound pressure level flush-mount (LpA in dB, 10 m ²)	13.0 to 47.5 / 12.3 to 46.1	
Sound pressure level flush-mount with ductwork connection on extract air side (LpA in dB, 10 m ²)	12.6 to 46.4 / 12.3 to 44.6	
Sound pressure level for integrated into wall U ² with ductwork connection on extract air side (LpA in dB, 10 m ²)	6.5 to 42.1 / 11.3 to 42.6	
Sound insulation for weighted standardised sound level difference, unit in use, depending on installation version (D _{n,e,w} in dB)	51 to 70	
Permitted temperature range of outdoor air during operation at a room temperature of at least 20 °C (in °C)	-18 to +40	
Permitted ambient air humidity during operation (% RH)	Up to approx. 70	
Weight (kg)	8.4 / 9.4	
Colour	White similar to RAL 9010	
Outdoor air / exhaust air connection (DN)	100	
Dimensions (W x H x D) in mm	364 x 590 x 218	
Possible installation methods	Surface-mount, flush-mount, integrated into wall U ²	
Ductwork connection possible?	Yes, with accessories	
Visible unit depth surface-mount/flush-mount/integrated into wall U ² (mm)	218 / 58 / -	
Filter type	Round filter cartridges for outdoor air and extract air	
Outdoor air / extract air filter class, optional activated charcoal filter for outdoor air (ISO 16890-1:2016-12 or EN 779: 2012-10)	ISO ePM1 60 % (F7) / ISO Coarse 60 % (G4), ISO ePM2.5 55 % (F7)	
Filter monitoring with filter change indicator	Runtime-controlled, visual	
Condensate drain	Via condensate connection / not required ¹	
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)	Yes, optional	
IP code (standard / with integrated into wall U ² installation version)	IPX4 / IPX5	
Humidity control	Optional with accessories	Yes
CO ₂ control	Optional with accessories	Yes, with -FC unit version
Automatic mode (humidity and CO ₂ control)	Optional with accessories	Yes, with -FC unit version
TÜV-tested	Yes	
Tested to/compliant with VDI 6022 sheet 1	Yes, no. W-377517-23-Zd	
Passivhaus certificate (PHI)	Yes, comp. ID 1327vs03 / 1328vs03	
National technical approval (DIBt)	Z-51.3-431	
Energy efficiency class	B/A ²	A

24 ¹ If used for the intended use as described in the operating instructions and if not exposed to excessive humidity

² In combination with the external wireless humidity or CO₂ sensor