Technical data

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 (m³/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, DIN EN 13141-8 (%)	94 / 91	
Effective heat recovery efficiency PHI (%), U² version with ductwork conn.	82 / 75	
Average moisture recovery efficiency η_x PHI, U² version with ductwork conn.	– / 0.45	
Motor / supply air / extract air fan	EC direct current, radial	
Electrical power consumption (W)	4.2 to 53.1 / 4.2 to 50.0	
Standby power consumption (W)	0.8	
Volume flow rate-related power consumption of the fans (W/m³/h) at ref. vol. flow rate 70 m³/h	0.31 / 0.29	
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 (Lp in dB (A) 10 m²)	17.5 to 48.1	
Sound pressure level flush-mount (Lp in dB (A) 10 m²)	13.0 to 47.5 / 13.1 to 48.6	
Sound pressure level for integrated into wall U² with ductwork connection on extract air side (Lp in dB(A) 10 m²)	8.4 to 42.1	
Sound insulation for weighted standardised sound level difference, unit in use, depending on installation version (D n,e,w in dB)	51 to 70	
Weight (kg)	8.3	
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 U²	
Ductwork connection possible?	yes, with accessories	
Visible unit depth surface-mount/flush-mount/integrated into wall U² (mm)	218 / 58 / –	
Filter type	Round filter cartridges for outdoor air and extract air	
Filter class outdoor air / extract air, optional activated charcoal filter for outdoor air (EN 779: 2012-10 or ISO 16890-1:2016-12)	F7 or ePM1 60% / G4 or Coarse 60%, F7/AK or ePM2.5 55%	
Filter monitoring with filter change indicator	runtime-controlled, visual	
Condensate drain	via condensate connection / not required[1]	
Fully automatic air 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	IP X4, IP X5 with Integrated into wall U² installation version	
Humidity control	no	yes
CO_2 control	no	yes, with -FC unit version
Automatic mode (humidity and CO_2 control)	no	yes, with -FC unit version
Various ventilation programs (supply & extract air operation, minimum ventilation to DIN 18017-3 possible, ...)	yes, in some cases with accessories	
TÜV-tested	yes	
Tested to/compliant with VDI 6022 sheet 1	yes, no. W-304132-18-WD	
Passivhaus certificate (PHI)	yes	
National technical approval (DIBt)	applied for, reference number: III 57-1.51.3-57/17	
Energy efficiency class	B	A

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