

Technical specifications

Hydrobox

Hydrobox indoor unit for cooperation with monobloc outdoor units in versions with a heater (HBM140H) and without a heater (HBM140).

Model	HBM140	HBM140H
Power source	230V 1AC 50 Hz	400V 3NAC 50Hz / 230V 1AC 50 Hz
Max. operating current (A)	2 (230V)	13 (400V) / 26 (230V)
Recommended fuse (A)	16 (230V)	16 (400V) / 32 (230V)
Wire size (Power source)	3 x 2.5mm ² (230V)	5 x 2.5mm ² (400V) / 3 x 10mm ² (230V)
Wire size (communication cable to outdoor unit)	3 x 0.75 mm ² (A, B, GND)	
Power source deviation (%)	-15 — +10	
Power Factor	0.99	
Water connection (outdoor unit)	28mm	

Indoor unit (split type, hydro-unit)		
Immersion heater	N/A	Max. 9 kW (6kW for 1 phase 230V)
Capacity steps heater	N/A	3 (3, 6, 9kW) for 3 phase 400V 3 (1.5, 3, 6kW) for 1 phase 230V
Pump model	Wilo-Para G 25/75	
Pump control	Variable	
Pump capacity, max. head	76 kPa (external)	
Pump capacity, max. flow	4 m ³ /h	
Pump power	2 — 75W	
Pump efficiency, max.	EEI≤0.21	
Flow meter	Type 200 (VVM500)	
Air vent	Automatic	
Emergency thermostat	N/A	5 — 65 °C
Thermal cut-off	N/A	92 (-6) °C
Safety relief valve system	0.3 MPa	
Manometer gauge	0 — 0.4 MPa	
Expansion vessel	10L	
Expansion vessel, Factory precharge:	0.5+/- 0.15bar	
IP Grade	IP21	
Cabinet	Top/side/front bottom EN10130 DC01 Back DX51D+Z275	
Material	Top/side/front bottom - Steel 0.7mm Back Galvanized steel 275g/m ²	
Color (powder coated 1 layer)	Top/side/front bottom RAL9016, white Back Untreated	
Operating ambient temperature: indoor unit	+5 — +35°C, max. RH 95%	
Connection water system	28 x 1" M (Threaded)	
Sound power level L _{WA} indoors	35dB	
Maximum flow temperature (heating) - compressor only	75°C (FDCMxxVN(S)X-P – R290) 60°C (FDCMxxVNX-W – R32)	
Minimum flow temperature (cooling)	5°C (FDCMxxVN(S)X-P – R290) 7°C (FDCMxxVNX-W – R32)	
Maximum flow temperature (heating) - compressor + backup	80°C (FDCMxxVN(S)X-P – R290) 65°C (FDCMxxVNX-W – R32)	
Design pressure on product (heating system)	0.3 MPa	
Height (adjustment)	— 800 mm	
Width	— 440 mm	
Depth	— 380 mm	
Weight net/gross	31 kg / 38 kg	37 kg / 44 kg
Weight packaging: Wood		
Weight packaging: EPS	N/A	N/A
Weight packaging: cardboard		
Weight packaging: Plastics		
Weight packaging: Metal		
Packaging volume /dimensions		
Part number MHI	MCD001A026	MCD001A027
Enclosed		
	N/A	1 x Jumper for 1 phase connection
	1 x Outdoor sensor	
	1 x Indoor sensor	
	3 x Current sensor	
	1 x Valve filter 1"	
	2 x Temperature sensor L=1450	
	1 x Hanger	

Technical specifications

Model	HBM140	HBM140H
Miscellaneous		
Internet Connection function	(straight, cat.5e UTP) RJ45 plug	
Language	English (en), Swedish (sv), German (de), French (fr), Spanish (es), Finnish (fi), Lithuanian (Lt), Czech (cz), Polish (pl), Dutch (nl), Danish (da), Estonian (et), Latvian (lv), Russian (ru), Italian (It), Slovenian (sl), Romanian (ro), Portuguese (pt), Bulgarian, Croatian, Icelandic, Hungarian, Norwegian, Turkish, ukrainian	