

## Data sheet M Flex 0609HBC M



### Air-to-water heat pump in integral design.

Max. flow temperature: 60 °C

Heat pump system for heating and cooling with inverter control and integrated WPM Touch heat pump manager with touch display. The system consists of an outdoor module and a hydraulic unit for indoor installation, connected via a load, communication and refrigerant line (special accessories). The control system uses an inverter to adjust the heat pump output to the actual demand for heating and/or hot water consumption. Compact outdoor unit for installation close to walls (0.4 m distance from walls) and slow running, naturally quiet EC fan. The following components are integrated and wired ready-to-use in the hydraulic unit:

- Heat pump control with touch display for convenient operation.
- Buffer tank connected in series (50 l) and dual differential pressureless manifold for high operational reliability and efficient operation.
- Three-way reversing valve for heating operation/domestic hot water preparation
- Pipe heater, electrically switchable, with 2, 4 or 6 kW for optional support in heating operation or during domestic hot water preparation.
- High-efficiency circulating pump for the generator and consumer circuit ( $EEL \leq 0.2$ ).
- Expansion vessel with 24 l and safety valve.
- Side parts and cover anthracite grey textured (similar to RAL 7016), front panels grey aluminium textured (similar to RAL 9007).

Dirt trap, flow and pressure sensor, as well as flow and return sensor and external sensor (standard NTC-2) included in the scope of supply. Domestic hot water sensor pre-wired ready for use, length approx. 3 m. The hydraulic unit, which has been optimised to take up minimal space in the installation room, can be flexibly expanded to allow for different applications. In addition to domestic hot



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water preparation, a maximum of three functions can be covered by the integrated control (domestic hot water preparation, mixed heating circuit, reversible operation, integration of boiler (bivalent) and/or heat from renewable sources (e.g. wood boiler, solar thermal system). Internet compatible thanks to NWPM Touch (accessory) for operation using the Dimplex Home app.



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## Technical data

### Dimplex Air-to-water heat pump in integral design. (Low temperature)

Max. flow temperature	60 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-22 Grad / 35 Grad
Heat output A-7/W35 / COP A-7/W35 *	6,0 kW / 3,03
Heat output max. A-7/W35 / COP A-7/W35 *	6,0 kW / 3,0
Heat output A2/W35 / COP A2/W35 *	4,2 kW / 4,16
Heat output A7/W35 / COP A7/W35 *	4,7 kW / 4,76
COP A-7/W35 *	3,0
Nominal power consumption according to EN 14511 at A2/W35	1,1 kW
Sound power level	52 dB(A)
Sound pressure level in 10 m	25 dB(A)
Refrigerant / Amount of refrigerant	R410A / 3,8 kg
Heat source flow (min.)	2600 m <sup>3</sup> pro h
Width x Height x Depth **	850 x 1230 x 600 mm
Weight	245 kg
Rated voltage	1/N/PE ~230 V, 50 Hz
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	Yes / 12.03.2024
Max. flow temperature	60 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-22 Grad / 35 Grad
Heat output A-7/W35 / COP A-7/W35 *	6,0 kW / 3,03
Heat output max. A-7/W35 / COP A-7/W35 *	6,0 kW / 3,0
Heat output A2/W35 / COP A2/W35 *	4,2 kW / 4,16
Heat output A7/W35 / COP A7/W35 *	4,7 kW / 4,76
COP A-7/W35 *	3,0
Nominal power consumption according to EN 14511 at A2/W35	1,1 kW
Sound power level	52 dB(A)
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Heat source flow (min.)	2600 m3 pro h
Width x Height x Depth **	850 x 1230 x 600 mm
Weight	245 kg
Rated voltage	1/N/PE ~230 V, 50 Hz
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	Yes / 12.03.2024

\*\*Please note that additional space is required for pipe connections, operation and maintenance.

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Description	Order ref.	Article number	Sample item	Item
<b>Heat pumps</b>				
Elasticated sound insulation underlay strips	SYL 250	352260	1	
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	0	
Transitional screw connection 1 1/4" internal thread to 1" external thread	KUP G1	366900	0	
Transitional screw connection 1 1/4" internal thread to R 1"	KUP G32	375810	0	
Air-to-water heat pump connection kit	VSF 32	361800	0	
<b>Hydraulic accessories</b>				
Domestic hot water module/unmixed heating circuit module	WWM 25	346600	0	
Mixed heating circuit module with temperature sensor	MMH 25	348640	0	
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	0	
El. cont. circulating pump: Control type $\Delta p$ -c, fixed speed; PWM control optional	UPE 80-25PK	380160	0	
Electronically controlled wet-running pump, self-regulating	UPE 100-25K	374720	0	
3-way ball valve DN 25	DWK 25	364680	0	
Mixer module for bivalent systems	MMB 25	348880	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560	0	
<b>Heating accessories</b>				
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	0	



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Description	Order ref.	Article number	Sample item	Item
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	0	
Heat pump heater vertical	WPHKV 1220053	381280	0	
<b>DHW preparation accessories</b>				
Domestic hot water cylinder 200l with temperature sensor	WWSP 229	374570	0	
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	1	
Transport aid for Hydro-Tower / LAW indoor unit	TH 270	370430	3	
Flange heater for domestic hot water	FLH 60	338060	0	
Flange heater for domestic hot water	FLHU 70	338070	0	
FLH 25M flange heater	FLH 25M	349430	0	
Safety valve combination	SVK 852	326660	0	



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Description	Order ref.	Article number	Sample item	Item
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	0	
<b>Control accessories</b>				
Extension for an Ethernet network connection	NWPM Touch	378800	1	
Expansion module WPM for a KNX/EIB connection	KNX WPM	376350	0	
Extension for a Modbus RTU connection	LWPM 410	339410	0	
Outside temperature sensor with casing	FG 3115	336620	0	
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	0	
<b>Solar thermal systems accessories</b>				
400l solar cylinder for heat pump	WWSP 432 SOL	361080	0	

\* Other specific accessories available / required

Important information:

The combination of the components and the quantities indicated represent a non-binding sample system, which needs to be tested and individually adapted as required. Pump dimensioning must be reviewed according to the pressure loss of the system and the minimum heating water flow rate of the heat pump.



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