

## Data sheet M Flex 0916HBC



### Reversible M Flex Cooling heat pump with up to 16 kW heat output

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 Reversible M Flex Cooling heat pump with up to 16 kW heat output (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 *                                                                           | 9,4 kW / 3,03        |
| Heat output max. A-7/W35 / COP A-7/W35 *                                                                      | 9,4 kW / 3,0         |
| Heat output A2/W35 / COP A2/W35 *                                                                             | 6,5 kW / 4,33        |
| Heat output A7/W35 / COP A7/W35 *                                                                             | 6,9 kW / 4,96        |
| COP A-7/W35 *                                                                                                 | 3,0                  |
| Nominal power consumption according to EN 14511 at A2/W35                                                     | 1,55 kW              |
| Sound power level                                                                                             | 55 dB(A)             |
| Sound pressure level in 10 m                                                                                  | 25 dB(A)             |
| Refrigerant / Amount of refrigerant                                                                           | R410A / 4,78 kg      |
| Heat source flow (min.)                                                                                       | 3000 m3 pro h        |
| Width x Height x Depth **                                                                                     | 850 x 1230 x 600 mm  |
| Weight                                                                                                        | 273 kg               |
| Rated voltage                                                                                                 | 3/N/PE ~400 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 *                                                                           | 9,4 kW / 3,03        |
| Heat output max. A-7/W35 / COP A-7/W35 *                                                                      | 9,4 kW / 3,0         |
| Heat output A2/W35 / COP A2/W35 *                                                                             | 6,5 kW / 4,33        |
| Heat output A7/W35 / COP A7/W35 *                                                                             | 6,9 kW / 4,96        |
| COP A-7/W35 *                                                                                                 | 3,0                  |
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|------------------------------------------|----------------------|
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| Width x Height x Depth **                | 850 x 1230 x 600 mm  |
| Weight                                   | 273 kg               |
| Rated voltage                            | 3/N/PE ~400 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         | 1           |      |
| 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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|------------------------------------------------------------|---------------|----------------|-------------|------|
| 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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|-------------------------------------------------------------|--------------|----------------|-------------|------|
| Domestic hot water cylinder (400 l) with temperature sensor | WWSP 442     | 372840         | 0           |      |
| Domestic hot water cylinder (500l) with temperature sensor  | WWSP 556     | 370080         | 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           |      |
| 500 l solar cylinder for heat pump                          | WWSP 540 SOL | 361090         | 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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