



## Data sheet WI 180TU

### High efficiency water-to-water heat pump for indoor installation.

Installation location:

Max. flow temperature: 62 °C

Casing colour: White (similar to RAL 9003)

Heat pump for heating purposes with two performance levels for increased efficiency in partial load operation for indoor installation and integrated heat pump manager WPM Econ5Plus with standard display. Variable connection options for the water and heating connections on the rear wall of the casing. A sound-optimised metal casing and the integrated solid-borne sound insulation with free-swinging compressor base plate make direct connection with the heating system possible. Access for service work front and left, no minimum clearance is required on the right side. High coefficient of performance through electronic expansion valve, COP booster and electronic pump control depending on the temperature spread in the heat generator circuit. Sensor monitoring of the refrigeration circuit for a high degree of operational safety and integrated thermal energy metering (display of the calculated quantity of thermal energy for heating, domestic hot water and swimming pool water preparation). FWO function for more efficient domestic hot water preparation with increased domestic hot water temperatures and volumes of water to be drawn through optimised tank charging.

Universal design with two compressors for output regulation when operating at partial load, optional domestic hot water preparation and flexible expansion options for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits
- Use of load-variable tariffs (SG Ready)

Soft starter, flow and return sensors for the water and heating circuit integrated. Dirt trap for heat source, external sensor (standard NTC-2) and circulating pump for the heat generator



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circuit in the scope of supply (observe the free compression). Heat pump white textured (similar to RAL 9003). Heat generator circuit pump 8 m delivery height at 12 m<sup>3</sup>/h, flange connection DN 65, installation length 340 mm.



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## Technical data

### Dimplex High efficiency water-to-water heat pump for indoor installation. (Medium temperature)

|                                                                                                               |                          |
|---------------------------------------------------------------------------------------------------------------|--------------------------|
| Heat pump code                                                                                                | 3015                     |
| Max. flow temperature                                                                                         | 62 Grad                  |
| Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation) | 7 Grad / 25 Grad         |
| Sound power level                                                                                             | 70 dB(A)                 |
| Refrigerant / Amount of refrigerant                                                                           | R410A / 19,5 kg          |
| Max. heating water flow rate / Pressure drop                                                                  | 22,2 m3 pro h / 40000 Pa |
| Heat source flow (min.)                                                                                       | 34,7 m3 pro h            |
| Width x Height x Depth **                                                                                     | 1350 x 1900 x 805 mm     |
| Weight                                                                                                        | 824 kg                   |
| Rated voltage                                                                                                 | 3/PE ~400 V, 50 Hz       |
| Starting current                                                                                              | 110 A                    |

\*Delivery time on request.

\*\*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         | 0           |      |
| DN 65 dirt trap                                                | SMF 65       | 362170         | 0           |      |
| Connecting flange for heating and brine circuits               | AF 65        | 351920         | 0           |      |
| <b>Hydraulic accessories</b>                                   |              |                |             |      |
| Universal buffer tank (500 l)                                  | PSW 500      | 339210         | 0           |      |
| Free-standing heating buffer tank 1000 litre                   | BTH 1000     | 382090         | 1           |      |
| Free-standing buffer tank 1000 l                               | PSW 1000     | 361640         | 1           |      |
| Immersion heater 4.5 kW; ~230 V                                | CTHK 630     | 363610         | 0           |      |
| Immersion heater 2.0 kW; ~230 V                                | CTHK 631     | 336180         | 0           |      |
| Immersion heater 2.9 kW; ~400 V                                | CTHK 632     | 335910         | 0           |      |
| Immersion heater 4.5 kW; ~400 V                                | CTHK 633     | 322140         | 0           |      |
| Immersion heater 6.0 kW; ~400 V                                | CTHK 634     | 322150         | 0           |      |
| Immersion heater 7.5 kW                                        | CTHK 635     | 322160         | 0           |      |
| Immersion heater 9.0 kW; ~400 V                                | CTHK 636     | 322170         | 0           |      |
| Electronically controlled circulating pump with coupling relay | UPH 80-40F   | 371800         | 0           |      |
| Electronically controlled circulating pump with coupling relay | UPH 120-50F  | 379020         | 0           |      |
| <b>Heating accessories</b>                                     |              |                |             |      |
| Heat pump heater heating/passive cooling, depth 21.5 cm        | WPHK 2150140 | 381260         | 0           |      |
| Heat pump heater heating/passive cooling, depth 16.5 cm        | WPHK 1650100 | 381220         | 0           |      |
| Heat pump heater heating/passive cooling, depth 21.5 cm        | WPHK 2150180 | 381270         | 0           |      |



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| Heat pump heater heating/passive cooling, depth 21.5 cm    | WPHK 2150100  | 381250         | 0           |      |
| Heat pump heater vertical                                  | WPHKV 1220053 | 381280         | 0           |      |
| 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 16.5 cm    | WPHK 165080   | 381210         | 0           |      |
| <b>DHW preparation accessories</b>                         |               |                |             |      |
| Domestic hot water cylinder (500l) with temperature sensor | WWSP 556      | 370080         | 0           |      |
| Domestic hot water cylinder, 700 litres                    | WWSP 770      | 376730         | 1           |      |
| FLH 25M flange heater                                      | FLH 25M       | 349430         | 0           |      |
| Flange heater for domestic hot water                       | FLHU 70       | 338070         | 0           |      |
| Flange heater for domestic hot water                       | FLH 60        | 338060         | 0           |      |
| Flange heater for domestic hot water                       | FLH 90        | 366130         | 0           |      |
| Safety valve combination                                   | SVK 852       | 326660         | 0           |      |
| 3-way reversing valve DN 50                                | DWV 50        | 374800         | 0           |      |
| <b>Control accessories</b>                                 |               |                |             |      |
| Flow rate switch 3"                                        | DFS 76-240    | 371920         | 1           |      |
| Expansion module WPM for a KNX/EIB connection              | KNX WPM       | 376350         | 0           |      |
| Extension for a Modbus RTU connection                      | LWPM 410      | 339410         | 0           |      |
| Remote control for WPM 2006/2007/EconPlus/R                | AP PGD        | 356570         | 0           |      |
| Temperature sensor NTC-10 with metal sleeve                | NTC-10M       | 363600         | 1           |      |



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| Outside temperature sensor with casing                        | FG 3115     | 336620         | 0           |      |
| <b>Accessories for passive cooling</b>                        |             |                |             |      |
| Passive cooling controller                                    | WPM Econ PK | 360000         | 0           |      |
| Plate heat exchanger, copper-soldered                         | WTU 130     | 362400         | 0           |      |
| Plate heat exchanger for SI 130                               | WTE 130     | 358470         | 0           |      |
| <b>Control accessories (cooling)</b>                          |             |                |             |      |
| Room climate station for temperature and humidity measurement | RKS WPM     | 342220         | 0           |      |
| Dew point monitor                                             | TPW WPM     | 350970         | 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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