

## Data sheet SI 14TU



### Highly efficient brine-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 for indoor installation with integrated heat pump manager WPM Econ5Plus with touch display. Variable connection options for brine and heating connections on the back board of the casing. Integrated solid-borne sound insulation for direct connection to the heating system. Sound-optimised through encapsulated compressor housing and free-swinging compressor baseplate. High coefficients of performance (COPs) thanks to electronic expansion valve, COP booster and compliance with the requirements of EN 14511 for larger volume flows on the heat consumption side. 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 and domestic hot water preparation on the heat pump manager). Universal design with optional domestic hot water preparation and flexible expansion possibilities for:

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

Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. Dirt trap for installation in the brine circuit (return to the heat pump) included in the scope of supply. Heat pump white textured (similar to RAL 9003). High-efficiency brine package with electronic control of the brine pump and the brine circuit manifold must be ordered separately.



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## Technical data

### Dimplex Highly efficient brine-to-water heat pump for indoor installation. (Medium temperature)

|                                                                                                               |                         |
|---------------------------------------------------------------------------------------------------------------|-------------------------|
| Heat pump code                                                                                                | 4009                    |
| Max. flow temperature                                                                                         | 62 Grad                 |
| Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation) | -5 Grad / 25 Grad       |
| Sound power level                                                                                             | 47 dB(A)                |
| Refrigerant / Amount of refrigerant                                                                           | R410A / 4,4 kg          |
| Max. heating water flow rate / Pressure drop                                                                  | 2,4 m3 pro h / 10700 Pa |
| Heat source flow (min.)                                                                                       | 3,4 m3 pro h            |
| Width x Height x Depth **                                                                                     | 650 x 840 x 555 mm      |
| Weight                                                                                                        | 140 kg                  |
| Rated voltage                                                                                                 | 3/N/PE ~400 V, 50 Hz    |
| Starting current                                                                                              | 23 A                    |
| Heat pump seal of approval (valid until)                                                                      | Yes / 12.12.2020        |

\*Heat output and coefficient of performance (COP) according to EN 14511

\*\*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 32 double-sphere rubber expansion joint                                 | KOMP 32    | 362060         | 0           |      |
| Air-to-water heat pump connection kit                                      | VSF 32     | 361800         | 0           |      |
| DN 32 dirt trap                                                            | SMF 32     | 362140         | 0           |      |
| <b>Hydraulic accessories</b>                                               |            |                |             |      |
| Built-under buffer tank                                                    | PSP 100U   | 378600         | 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           |      |
| 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           |      |
| Connection hose 1 1/4" (32 x 5.5 mm)                                       | AS 976-1   | 330530         | 0           |      |
| Buffer tank, wall-mounted                                                  | PSP 50E    | 372890         | 0           |      |
| Free-standing buffer tank 100 l                                            | PSW 100    | 351090         | 0           |      |
| Free-standing buffer tank 200 l                                            | PSW 200    | 339830         | 0           |      |



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|-------------------------------------------------------------------------------------------|--------------|----------------|-------------|------|
| Dual differential pressureless manifold                                                   | DDV 25       | 358390         | 1           |      |
| High-efficiency circulating pump DN 25 with coupling relay                                | UP 75-25PK   | 376740         | 1           |      |
| Manifold bar DN 25                                                                        | VTB 25-2     | 376360         | 0           |      |
| Manifold bar DN 32                                                                        | VTB 25-3     | 376370         | 0           |      |
| Domestic hot water module/unmixed heating circuit module                                  | WWM 25       | 346600         | 1           |      |
| Mixed heating circuit module with temperature sensor                                      | MMH 25       | 348640         | 0           |      |
| El. cont. circulating pump: Control type $\Delta p$ -c, fixed speed; PWM control optional | UPE 80-25PK  | 380160         | 1           |      |
| 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           |      |
| DN 25 double-sphere rubber expansion joint                                                | KOMP 25      | 362050         | 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           |      |
| Immersion heater pipe assembly                                                            | HDLR 450     | 337450         | 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           |      |



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| Heat pump heater heating/passive cooling, depth 21.5 cm     | WPHK 2150180  | 381270         | 0           |      |
| 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 (300l) with temperature sensor  | WWSP 335      | 376760         | 0           |      |
| Domestic hot water cylinder (400 l) with temperature sensor | WWSP 442      | 372840         | 1           |      |
| Transport aid for Hydro-Tower / LAW indoor unit             | TH 270        | 370430         | 5           |      |
| 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 (500l) with temperature sensor                      | WWSP 556     | 370080         | 0           |      |
| 3-way reversing valve DN 25                                                     | DWV 25       | 374770         | 1           |      |
| Actuator for 3-way reversing valves DWV 25 - 50                                 | EMA DWV      | 374760         | 1           |      |
| Pump unit DN 25 for direct connection of the domestic hot water cylinder        | WPG 25       | 356030         | 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>Accessories for passive cooling</b>                                          |              |                |             |      |
| Passive cooling station with cooling controller and 3-way reversing valve DN 25 | PKS 14 Econ  | 362930         | 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           |      |
| <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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