

Data sheet WI 18TU



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 for indoor installation with integrated heat pump manager WPM Econ5Plus with touch display. Variable connection options for the ground water and heating connections on the rear wall 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. Integrated corrosion-proof and freeze-proof stainless steel coil evaporator. 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). If the evaporation temperatures are too low, e.g. due to an inadequate water flow, the heat pump switches off, which means that no flow rate switch is required. For well systems with an insecure water supply, a flow rate switch available as a special accessory can also be installed. Universal design with flexible expansion options for:

- Room temperature control via Smart RTC (special accessory)
- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits
- Use of load-variable tariffs (SG Ready)

Integrated soft starter (from WI 14); integrated load contactor for well water pump; flow sensor, return sensor, external sensor (standard NTC-2) and dirt filter for ground water included in the scope of supply. Heat pump white textured (similar to RAL 9003).



Glen Dimplex Thermal Solutions T: + 49 9221 709-100
(Glen Dimplex Deutschland GmbH) F: + 49 9221 709-339
Am Goldenen Feld 18 dimplex@dimplex.de
D-95326 Kulmbach www.dimplex.de

Glen Dimplex Austria GmbH T: + 43 6214 20330
Hauptstraße 71 F: + 43 6214 203304
A-5302 Henndorf am Wallersee info@dimplex.at
www.dimplex.at

WI 18TU

Technical data

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

| | |
|---|-------------------------|
| Heat pump code | 3006 |
| 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 | 44 dB(A) |
| Refrigerant / Amount of refrigerant | R410A / 3,4 kg |
| Max. heating water flow rate / Pressure drop | 2,9 m3 pro h / 16200 Pa |
| Heat source flow (min.) | 3,3 m3 pro h |
| Width x Height x Depth ** | 650 x 845 x 665 mm |
| Weight | 160 kg |
| Rated voltage | 3/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.



Glen Dimplex Thermal Solutions T: + 49 9221 709-100
(Glen Dimplex Deutschland GmbH) F: + 49 9221 709-339
Am Goldenen Feld 18 dimplex@dimplex.de
D-95326 Kulmbach www.dimplex.de

Glen Dimplex Austria GmbH T: + 43 6214 20330
Hauptstraße 71 F: + 43 6214 203304
A-5302 Henndorf am Wallersee info@dimplex.at
www.dimplex.at

WI 18TU

| Description | Order ref. | Article number | Sample item | Item |
|--|------------|----------------|-------------|------|
| Heat pumps | | | | |
| Elasticated sound insulation underlay strips | SYL 250 | 352260 | 0 | |
| DN 32 double-sphere rubber expansion joint | KOMP 32 | 362060 | 0 | |
| DN 32 dirt trap | SMF 32 | 362140 | 0 | |
| Air-to-water heat pump connection kit | VSF 32 | 361800 | 0 | |
| Hydraulic accessories | | | | |
| 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 | |
| Hydraulic tower 300 litres | HPK 300 | 371600 | 0 | |
| Free-standing buffer tank 200 l | PSW 200 | 339830 | 1 | |
| Transport aid for Hydro-Tower / LAW indoor unit | TH 270 | 370430 | 0 | |
| 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 | |



Glen Dimplex Thermal Solutions T: + 49 9221 709-100
 (Glen Dimplex Deutschland GmbH) F: + 49 9221 709-339
 Am Goldenen Feld 18 dimplex@dimplex.de
 D-95326 Kulmbach www.dimplex.de

Glen Dimplex Austria GmbH T: + 43 6214 20330
 Hauptstraße 71 F: + 43 6214 203304
 A-5302 Henndorf am Wallersee info@dimplex.at
 www.dimplex.at

Data sheet WI 18TU

| Description | Order ref. | Article number | Sample item | Item |
|---|-------------|----------------|-------------|------|
| Universal buffer tank (500 l) | PSW 500 | 339210 | 0 | |
| Dual differential pressureless manifold | DDV 32 | 348450 | 1 | |
| High-efficiency circulating pump DN 32 with coupling relay | UPH 90-32 | 370420 | 1 | |
| Manifold bar DN 32 | VTB 32-2 | 374920 | 0 | |
| Manifold bar DN 32 | VTB 32-3 | 374930 | 0 | |
| Domestic hot water module/unmixed heating circuit module | WWM 32 | 367800 | 0 | |
| Mixed heating circuit module | MMH 32 | 367790 | 0 | |
| El. cont. circulating pump: Control type Δp -c, fixed speed; PWM control optional | UPE 80-32PK | 380170 | 0 | |
| Electronically controlled wet-running pump, self-regulating | UPE 100-32K | 374730 | 0 | |
| Mixer module for bivalent systems | MMB 32 | 367780 | 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 | |



Glen Dimplex Thermal Solutions T: + 49 9221 709-100
 (Glen Dimplex Deutschland GmbH) F: + 49 9221 709-339
 Am Goldenen Feld 18 dimplex@dimplex.de
 D-95326 Kulmbach www.dimplex.de

Glen Dimplex Austria GmbH T: + 43 6214 20330
 Hauptstraße 71 F: + 43 6214 203304
 A-5302 Henndorf am Wallersee info@dimplex.at
 www.dimplex.at

Data sheet WI 18TU

| Description | Order ref. | Article number | Sample item | Item |
|---|---------------|----------------|-------------|------|
| Ready-for-use DN 32 stainless steel Wellflex pipe | VSE 32-300 | 362560 | 0 | |
| Immersion heater pipe assembly | HDLR 450 | 337450 | 0 | |
| Heating accessories | | | | |
| 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 | |
| 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 | |
| DHW preparation accessories | | | | |
| Domestic hot water cylinder (400 l) with temperature sensor | WWSP 442 | 372840 | 1 | |
| 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 | |



Glen Dimplex Thermal Solutions T: + 49 9221 709-100
 (Glen Dimplex Deutschland GmbH) F: + 49 9221 709-339
 Am Goldenen Feld 18 dimplex@dimplex.de
 D-95326 Kulmbach www.dimplex.de

Glen Dimplex Austria GmbH T: + 43 6214 20330
 Hauptstraße 71 F: + 43 6214 203304
 A-5302 Henndorf am Wallersee info@dimplex.at
 www.dimplex.at

Data sheet WI 18TU

| Description | Order ref. | Article number | Sample item | Item |
|--|------------|----------------|-------------|------|
| Domestic hot water cylinder (500l) with temperature sensor | WWSP 556 | 370080 | 0 | |
| 3-way reversing valve DN 32 | DWV 32 | 374780 | 1 | |
| Actuator for 3-way reversing valves DWV 25 - 50 | EMA DWV | 374760 | 1 | |
| Pump unit DN 32 for direct connection of the domestic hot water cylinder | WPG 32 | 356040 | 0 | |
| High-efficiency circulating pump DN 32 with coupling relay | UP 75-32PK | 376750 | 0 | |
| Control accessories | | | | |
| 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 | |
| Accessories for passive cooling | | | | |
| Plate heat exchanger for SIH 20 | WTE 20 | 358400 | 0 | |
| Control accessories (cooling) | | | | |
| 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.



Glen Dimplex Thermal Solutions
 (Glen Dimplex Deutschland GmbH)
 Am Goldenen Feld 18
 D-95326 Kulmbach
 T: + 49 9221 709-100
 F: + 49 9221 709-339
 dimplex@dimplex.de
 www.dimplex.de

Glen Dimplex Austria GmbH
 Hauptstraße 71
 A-5302 Henndorf am Wallersee
 T: + 43 6214 20330
 F: + 43 6214 203304
 info@dimplex.at
 www.dimplex.at