# SI 35TU
## Data sheet

**Experience Better Living.**

## Highly efficient brine-to-water heat pump for indoor installation.

Heat pump white textured (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 touch display. Brine circulating pump 12 m delivery height at 4 m3/h, flange connection DN 32, installation length 220 mm, heat generator circuit pump 12 m delivery height at 5 m3/h (thread connection R 1 1/4", (pump thread 2"), inside micrometer 180 mm! (Spectrum of efficiency classes A+++ to D) 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. Universal design with two compressors for output regulation when operating at partial load, optional domestic hot water preparation and flexible expansion options for: Variable connection options for brine and heating connections on the back board of the casing. Brine package SZB must be ordered separately. Distribution systems with unmixed and mixed heating circuits Bivalent or bivalent-renewable operating mode 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). Soft starter, flow and return sensors for the brine and heating circuit integrated. Dirt trap for brine circuit, external sensor (standard NTC-2), circulating pumps for brine and heat generator circuit in the scope of supply (observe the free compression). Use of load-variable tariffs (SG Ready) Access for service work front and left, no minimum clearance is required on the right side. 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. High coefficient of performance through electronic expansion valve, COP booster and electronic pump control depending on the temperature spread in the heat generator circuit.



## Technical Data

| Order reference | SI 35TU |
|---|---|
| Heating water flow rate acc. EN 1511 | 6.1 |
| Heating water flow rate pressure drop according to EN 14511 | 10600 |
| Heat source flow (min.) | 6.4 |
| Nominal power consumption according to EN 14511 at B0/W35 | 7.25 |
| Maximum electric power consumption | 14.5 |
| Seasonal room heating energy efficiency (high temperature) | 140 |
| Energy efficiency class with 55 °C flow temperature | A++ |
| Energy efficiency class with 35 °C flow temperature | A+++ |
| Seasonal space heating energy efficiency in average climate conditions (NT) | 201 |
| Dimensions (W x H x D)** | 1000 x 885 x 810 mm |

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| Order reference | SI 35TU |
|---|---|
| Weight | 315 kg |

* Heating and cooling capacity and coefficients of performance (COP/EER) in accordance with EN 14511
** Please note that additional space is required for pipe connection, operation and maintenance.
*** The fuse protection must be designed as an all-pole disconnecting device (common disconnection of all phases)!

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# SI 35TU
## System accessories

**Experience Better Living.**

| Description | Order-ref. | Article-number | Example Piece | Units | Price |
|---|---|---|---|---|---|
| **Heat pump brine monobloc indoor** | | | | | |
| Highly efficient brine-to-water heat pump for indoor installation. | SI 35TU | 368450 | 1 | | |
| Dual differential pressureless manifold | DDV 40 | 367720 | 1 | | |
| 3-way reversing valve DN 40 | DWV 40 | 374790 | 1 | | |
| Built-under buffer tank 300l | PSP 300U | 378630 | 1 | | |
| Brine package for SI 35TU | SZB 40F-18 | 368570 | 1 | | |
| Domestic hot water cylinder (500l) with temperature sensor | WWSP 556 | 370080 | 1 | | |
| **Accessories hydraulic** | | | | | |
| Dual differential pressureless manifold | DDV 40 | 367720 | 1 | | |
| 3-way ball valve DN 40 | DWK 40 | 364700 | 1 | | |
| DN 32 double-sphere rubber expansion joint | KOMP 32 | 362060 | 1 | | |
| Transitional screw connection 1 1/2" internal thread to R 1 1/4"<br />GDD-01-370090 | KUP G40 | 370090 | 1 | | |
| Mixer module for bivalent systems | MMB 32 | 367780 | 1 | | |
| Mixed heating circuit module | MMH 32 | 367790 | 1 | | |
| Built-under buffer tank 300l | PSP 300U | 378630 | 1 | | |
| Universal buffer tank (500 l) | PSW 500 | 339210 | 1 | | |
| Electronically controlled wet-running pump, self-regulating | UPE 120-32K | 374740 | 1 | | |
| Ready-for-use DN 32 stainless steel Wellflex pipe | VSE 32-100 | 362530 | 1 | | |
| Ready-for-use DN 32 stainless steel Wellflex pipe | VSE 32-150 | 362540 | 1 | | |
| Ready-for-use DN 32 stainless steel Wellflex pipe | VSE 32-200 | 362550 | 1 | | |

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## System accessories

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| Description | Order-ref. | Article-number | Example Piece | Units | Price |
|---|---|---|---|---|---|
| Ready-for-use DN 32 stainless steel Wellflex pipe | VSE 32-300 | 362560 | 1 | | |
| Ready-for-use DN 32 stainless steel Wellflex pipe | VSE 32-50 | 362520 | 1 | | |
| Manifold bar DN 32 | VTB 32-2 | 374920 | 1 | | |
| Manifold bar DN 32 | VTB 32-3 | 374930 | 1 | | |
| Domestic hot water module/unmixed heating circuit module | WWM 32 | 367800 | 1 | | |
| **Accessories for heating** | | | | | |
| Heat pump heater heating/passive cooling, depth 16.5 cm | WPHK 1650100 | 381220 | 1 | | |
| Heat pump heater heating/passive cooling, depth 16.5 cm | WPHK 1650140 | 381230 | 1 | | |
| Heat pump heater heating/passive cooling, depth 16.5 cm | WPHK 1650180 | 381240 | 1 | | |
| Heat pump heater heating/passive cooling, depth 16.5 cm | WPHK 165080 | 381210 | 1 | | |
| Heat pump heater heating/passive cooling, depth 21.5 cm | WPHK 2150100 | 381250 | 1 | | |
| Heat pump heater heating/passive cooling, depth 21.5 cm | WPHK 2150140 | 381260 | 1 | | |
| Heat pump heater heating/passive cooling, depth 21.5 cm | WPHK 2150180 | 381270 | 1 | | |
| Heat pump heater vertical | WPHKV 1220053 | 381280 | 1 | | |
| **Accessories domestic hot water** | | | | | |
| Flow rate measurement for central domestic hot water heater | DFM 1988-500 | 377650 | 1 | | |
| Flow rate measurement for central domestic hot water heater | DFM 1988-700 | 379150 | 1 | | |
| 3-way reversing valve DN 40 | DWV 40 | 374790 | 1 | | |
| Pump unit DN 32 for direct connection of the domestic hot water cylinder | WPG 32 | 356040 | 1 | | |
| Domestic hot water cylinder (500l) with temperature sensor | WWSP 556 | 370080 | 1 | | |

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| Description | Order-ref. | Article-number | Example Piece | Units | Price |
|---|---|---|---|---|---|
| Domestic hot water cylinder, 700 litres | WWSP 770 | 376730 | 1 | | |
| **Accessories solar** | | | | | |
| 400l solar cylinder for heat pump | WWSP 432 SOL | 361080 | 1 | | |
| 500 l solar cylinder for heat pump | WWSP 540 SOL | 361090 | 1 | | |
| **Accessories controls** | | | | | |
| Outside temperature sensor with casing | FG 3115 | 336620 | 1 | | |
| Expansion module WPM for a KNX/EIB connection | KNX WPM | 376350 | 1 | | |
| Extension for a Modbus RTU connection | LWPM 410 | 339410 | 1 | | |
| Temperature sensor NTC-10 with metal sleeve | NTC-10M | 363600 | 1 | | |
| Extension for an Ethernet network connection | NWPM Touch | 378800 | 1 | | |
| Smart RTC+ - intelligent room temperature control | RTM Econ A | 367210 | 1 | | |
| Smart RTC+ - intelligent room temperature control | RTM Econ U | 367200 | 1 | | |
| Heat pump manager incl. software adaptation for use as a master controller | WPM Touch Master | 379130 | 1 | | |
| **Accessories for cooling** | | | | | |
| 3-way reversing valve DN 40 | DWV 40 | 374790 | 1 | | |
| Passive cooling station with cooling controller and 3-way reversing valve DN 40 | PKS 25 Econ | 362940 | 1 | | |
| Room climate station for temperature and humidity measurement | RKS WPM | 342220 | 1 | | |
| Dew point monitor | TPW WPM | 350970 | 1 | | |
| Passive cooling controller | WPM Econ PK | 360000 | 1 | | |
| Plate heat exchanger for SI 35 | WTE 37 | 358420 | 1 | | |

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| Description | Order-ref. | Article-number | Example Piece | Units | Price |
|---|---|---|---|---|---|
| Plate heat exchanger, copper-soldered | WTU 50 | 362370 | 1 | | |
| **Accessories heat source** | | | | | |
| Antifreeze for the brine circuit 200 l | AFN 824 | 324610 | 1 | | |
| Brine circuit manifold connection package | AP SVT16 | 356060 | 1 | | |
| DN 40 double-sphere rubber expansion joint | KOMP 40 | 362070 | 1 | | |
| Transitional screw connection 1 1/2" internal thread to R 1 1/4"<br />GDD-01-370090 | KUP G40 | 370090 | 1 | | |
| Strap-on thermostat for temperature monitoring | RAT 060I | 361470 | 1 | | |
| Brine circuit manifold (2-fold) with clamping ring fittings | SVT 200KV | 363860 | 1 | | |
| Brine circuit manifold (3-fold) with clamping ring fittings | SVT 300KV | 363870 | 1 | | |
| Brine circuit manifold (4-fold) with clamping ring fittings | SVT 400KV | 363880 | 1 | | |
| Brine package for SI 35TU | SZB 40F-18 | 368570 | 1 | | |
| Plate heat exchanger for SI 35 | WTE 37 | 358420 | 1 | | |

* Additional specific accessories available/required

**Important notice**

The combination of components and the specified quantities represent a non-binding example system that must be reviewed and, if necessary, adjusted individually.
The pumpsizing needs to be checked according to the system's pressure loss and the minimum heating water flow rate of the heat pump.

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