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

Max. flow temperature: 62 °C  
Casing colour: White (similar to RAL 9016)  
Brown-red design screen (RAL 3011)

Heat pump for heating purposes for indoor installation with integrated WPM Econ5Plus control. Variable connection options for brine and heating connections on the back board 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 from the front, no minimum clearance required on the sides, accessible from underneath with a lift truck. High coefficients of performance (COP) through electronic expansion valve and electronic pump control depending on the temperature spread in the brine and 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. The control panel is integrated in a design screen and can also be used as wired remote control using the wall mounting set (special accessories MS PGD). 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 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). Brine circulating pump 15 m delivery height at 18 m³/h, flange connection DN 65, installation length 340 mm; heat generator circuit pump 8 m delivery height at 14 m³/h, flange connection DN 65, installation length 340 mm.  
Brine package SZB must be ordered separately.

Technical data

<table>
<thead>
<tr>
<th>Order reference</th>
<th>SI 130TU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat pump code</td>
<td>4026</td>
</tr>
<tr>
<td>Casing colour</td>
<td>White (similar to RAL 9016)</td>
</tr>
<tr>
<td>Max. flow temperature</td>
<td>62 °C</td>
</tr>
<tr>
<td>Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)</td>
<td>-5 to 25 °C</td>
</tr>
<tr>
<td>Heat output B0/W35 / COP B0/W35*</td>
<td>70,7 kW / 4,7</td>
</tr>
<tr>
<td>Heat output max. B0/W35 / COP B0/W35</td>
<td>138,1 kW / 4,6</td>
</tr>
<tr>
<td>Heat output B0/W45 / COP B0/W45</td>
<td>67,2 kW / 3,7</td>
</tr>
<tr>
<td>Heat output max. B0/W45 / COP B0/W45</td>
<td>132,1 kW / 3,7</td>
</tr>
<tr>
<td>Nominal power consumption according to EN 14511 at B0/W35</td>
<td>30,0 kW</td>
</tr>
<tr>
<td>Sound power level</td>
<td>70 dB (A)</td>
</tr>
<tr>
<td>Refrigerant / Amount of refrigerant</td>
<td>R410A / 19,5 kg</td>
</tr>
<tr>
<td>Max. heating water flow rate / Pressure drop</td>
<td>17,9 m³/h / 9800 Pa</td>
</tr>
<tr>
<td>Heat source flow (min.)</td>
<td>27,3 m³/h</td>
</tr>
<tr>
<td>Dimensions (W x H x D)**</td>
<td>1350 x 1900 x 840 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>824 kg</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>3/N/PE ~400 V, 50 Hz</td>
</tr>
<tr>
<td>Starting current</td>
<td>110 A</td>
</tr>
<tr>
<td>Fuse protection***</td>
<td>C 100 A</td>
</tr>
<tr>
<td>Connection heating</td>
<td>2 ½ inch</td>
</tr>
<tr>
<td>Heat source connection</td>
<td>3 inch</td>
</tr>
</tbody>
</table>

*A water-to-water heat pump must be used if borehole heat exchangers are used which work using water as the heat transfer medium.  
**Please note that additional space is required for pipe connections, operation and maintenance.  
***Die Absicherung ist als allpolige Trennvorrichtung auszuführen (gemeinsame Abschaltung aller Phasen)!  

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## System accessories SI 130TU

### Heat pumps
- **Highly efficient brine-to-water heat pump for indoor installation.** SI 130TU 369960 1
- **Elasticated sound insulation underlay strips** SYL 250 352260
- **DN 65 dirt trap** SMF 65 362170
- **Connecting flange for heating and brine circuits** AF 65 351920
- **Connecting flange for heating and brine circuits** AF 80 351930

### Heat source accessories
- **Low-pressure brine switch** SWPR 200 359470
- **Antifreeze for the brine circuit 200 l** AFN 824 324610 4
- **Plate heat exchanger for SI 130** WTE 130 358470

### Hydraulic accessories
- **Free-standing buffer tank 1000 l** PSW 1000 361640 1
- **Immersion heater 4.5 kW; ~230 V** CTHK 630 363610
- **Immersion heater 2.0 kW; ~230 V** CTHK 631 336180
- **Immersion heater 2.9 kW; ~400 V** CTHK 632 335910
- **Immersion heater 4.5 kW; ~400 V** CTHK 633 322140
- **Immersion heater 6.0 kW; ~400 V** CTHK 634 322150
- **Immersion heater 7.5 kW** CTHK 635 322160
- **Immersion heater 9.0 kW; ~400 V** CTHK 636 322170
- **Freestanding buffer tank 1000 l heating/cooling** PSP 1000K 376240

### Heating accessories
- **Fan convector heating with EC fan** SRX 080EM 367500
- **Fan convector heating with EC fan** SRX 120EM 367510
- **Fan convector heating with EC fan** SRX 140EM 367520
- **Fan convector heating with EC fan** SRX 180EM 367530

### DHW preparation accessories
- **Domestic hot water cylinder (500l) with temperature sensor** WWSP 556 370080
- **Pump unit DN 32 for direct connection of the domestic hot water cylinder** WPG 32 356040
- **High-efficiency wet-running pump PWM with coupling relay** UPH 120-32PK 375750
- **Electronically controlled circulating pump with coupling relay** UPH 80-40F 371800
- **3-way reversing valve DN 50** DWV 50 374800 1
- **Actuator for 3-way reversing valves DWV 25 - 50** EMA DWV 374760

### Control accessories
- **Extension for an Ethernet network connection** NWPM 356960
- **Expansion module WPM for a KNX/EIB connection** KNX WPM 376350
- **Extension for a Modbus RTU connection** LWPM 410 339410
- **Outside temperature sensor with casing** FG 3115 336620
- **Temperature sensor NTC-10 with metal sleeve** NTC-10M 363600 1

### Accessories for passive cooling
- **Plate heat exchanger, copper-soldered** WTU 100 362390
- **Plate heat exchanger, copper-soldered** WTU 130 362400
- **Plate heat exchanger for SI 100** WTE 100 358460
- **Plate heat exchanger for SI 130** WTE 130 358470

### Control accessories (cooling)
- **Passive cooling controller** WPM Econ PK 360000
- **Room climate station for temperature and humidity measurement** RKS WPM 342220
- **Dew point monitor** TPW WPM 350970
- **Room temperature controller heating/cooling** RTK 601U 355610
- **Room temperature controller heating/cooling** RTK 602U 355620

* 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.