

## DATA SHEET

### CSE2 SOL W SRS1 T-E Solar Pump Station



#### Main Features

|                       |  |
|-----------------------|--|
| Application           | <p>This twin-line solar pump station contains all components necessary for current and efficient operation. It is designed for operation with one solar consumer (e.g. hot water tank). An auxiliary electric heating element of 2 to 3 kW output can be connected to the heat pump. For its connection, the pump station is equipped with a special socket. The controller controls switching on and off of the heating element. Neither the heating element nor its safety temperature limiter are included in supply.</p>   |
| Description           | <p>The pump station includes:</p> <ul style="list-style-type: none"> <li>– Para ST 25/7-50/iPWM2 circulation pump,</li> <li>– SRS1 T controller,</li> <li>– special socket to connect a heating element of max. 3 kW/230 V output,</li> <li>– check valve,</li> <li>– safety valve with G 3/4" F outlet,</li> <li>– ball valves on both flow and return lines,</li> <li>– air eliminator with manual air vent valve,</li> <li>– pressure gauge,</li> <li>– thermometers on both flow and return lines,</li> <li>– two G 3/4" M valves for filling, draining and topping up the solar thermal system,</li> <li>– G 3/4" M outlet for connecting an expansion vessel,</li> <li>– 2 already connected temperature sensors of a solar consumer (4 m long),</li> <li>– already connected cable w. silicone insulation to connect a solar sensor (1 m long),</li> <li>– solar temperature sensor (2 m long cable),</li> <li>– already connected 230 V power cord with plug (3 m long, 3 x 1.5 mm<sup>2</sup> cross section),</li> <li>– mounting kit for installation on a wall or tank,</li> <li>– insulation.</li> </ul> |
| Flow rate measurement | The pump sends the momentary flow rate value as data to controller where it is displayed.  |
| Installation          | On a tank or wall using.   |
| Working fluid         | Water-glycol mixture (max. 1:1).   |
| Codes corresponding   | <b>20557</b> – Connections G 3/4" M<br><b>20558</b> – Connections G 1" M<br><b>20560</b> – Connections Cu 22 mm  |

#### Pump Station Data

|                                |                               |
|--------------------------------|-------------------------------|
| Max. fluid working temperature | 110 °C                        |
| Max. working pressure          | 6 bar                         |
| Min. system pressure           | 1.3 bar with the pump stopped |
| Flow rate measurement range    | 2–20 l/min                    |
| Ambient temperature            | 5 to 40 °C                    |
| Max. relative humidity         | 85% at 25 °C                  |
| Power supply                   | 230 V, 50 Hz                  |
| Max. switched current          | 13 A/230 V                    |
| Insulation material            | EPP RG 60 g/l                 |
| IP rating                      | IP20                          |
| Overall dimensions (w x h x d) | 405 x 420 x 155 mm            |
| Total weight                   | 6.5 kg                        |

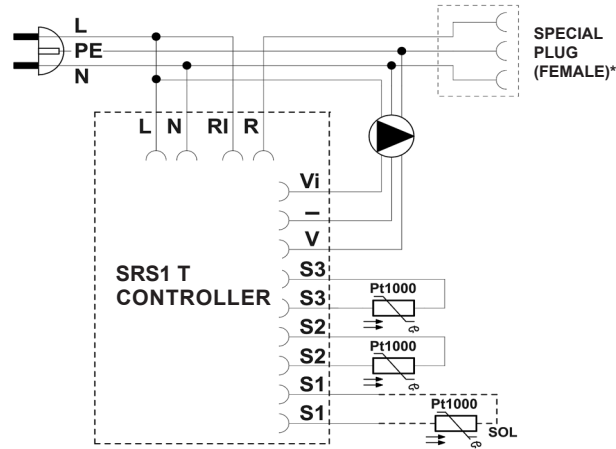
#### Accessories

|            |   |
|------------|---|
| Code 16942 | ETT-N heating element, 2 kW                                 |
| Code 16943 | ETT-N heating element, 3 kW                                 |
| Code 16940 | connector for a special socket located under the controller |

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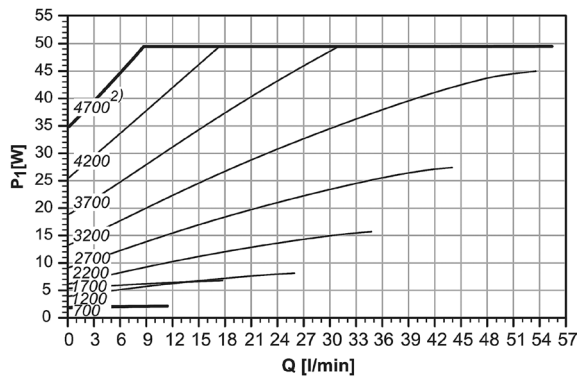
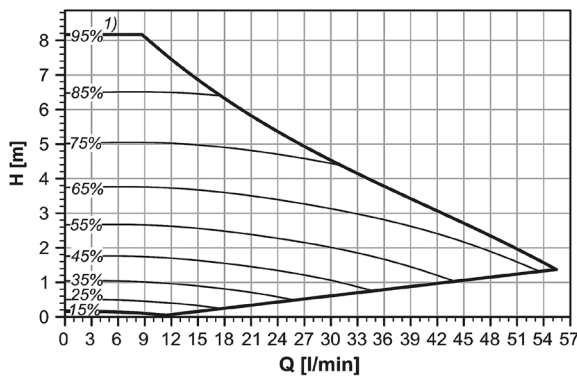
### Pump Station Internal Wiring



- L** live
- N** neutral
- RI, R** potential-free switching contact
- Vi** iPWM signal input
- GND PWM
- V** PWM signal output
- S2** sensor 2 (solar consumer)
- S1** sensor 1 (collector)

\* In pump station to connect a heating element, 3 kW max. output.

### Pump Performance curves



NOTE:  
 1) PWM signal value in %,  
 2) speed in rpm

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### Pressure Drop Graph

