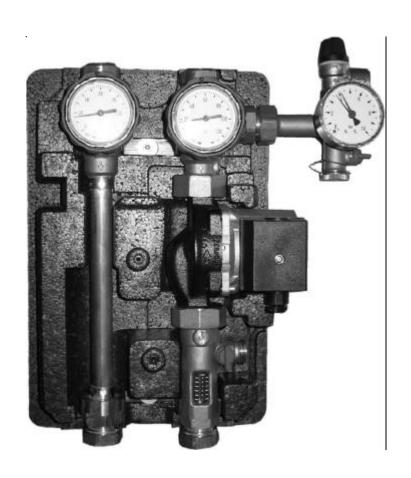
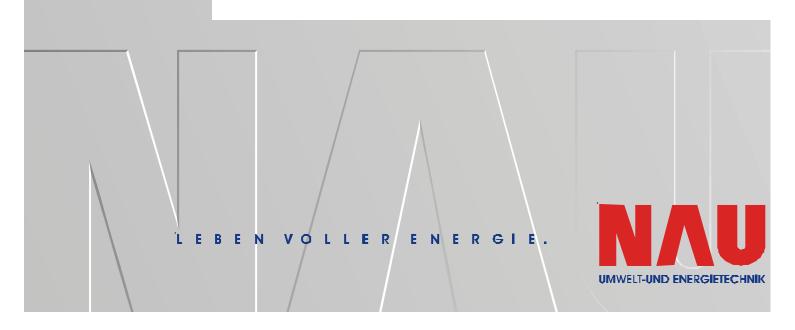
Produkt	Solar transmission station Type 15, Type 15R, Type 30
Issue	Instruction for professional installation
Code	07/2008 Br





Installation

Safety notes

The safety notes are to be observed.

Installation, initial operation, maintenance and repairs have to be carried out by authorised and qualified trade persons. (EN 5011 part 1 and VDE 1000 part 10)

Installation notes

The transmission station is supplied pre-assembled. The compression fittings are to be ordered separately.

The transmission station always has to be mounted at a lower level than the collectors so that no steam may penetrate the expansion tank in case of stagnation. If the expansion tank is mounted at the same or at a higher level, a hydronic siphon is required. The installation has to be flushed with fresh water after each draining operation.

The transmission station is not suitable for direct contact with swimming pool water.

Sequence of the job steps

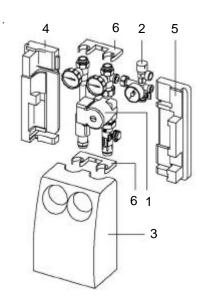
- 1. Defining the pump assembly installation location. Take account of the location of the expansion tank (membrane expansion tank) (length of the connection hose). Install the pump assembly.
- 2. Install the piping for the entire system and connect the pump assembly. Screw all clamping ring connections tight.
- 3. The electrical connections to the system, controller, pump, sensors etc. must be performed by professional personnel. Pay attention to the specialist regulations (VDE 1000 T10, EN 5011 T1).
- 4. Fill the system
- 5. Flush the system
- 6. Pressure testing and commissioning of the system

Assembly notes

- 1.1 Remove transmission station from the packaging. Pull the front insulation (3) whilst pushing the latter against the back insulation (4), (5). Remove transmission station (1).
- 1.2 For each wall mounting device (6), drill 8 mm holes at a distance of 262 mm.

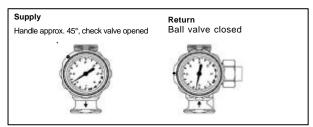
Fix mounting device by screwing it onto the wall and engage back insulation. Now push transmission station onto the fixing clips of the wall mounting device.

- 1.3 Screw safety group (2) onto the ball valve. Mount discharging pipe of the safety valve towards the collecting basin and the connecting pipe of the safety group towards the expansion tank.
- 1.4 Connect cable to the pump Now the front insulation (3) can be pushed onto the back insulation (4), (5) until it clicks into position.
- 1.5 Flush solar installation thoroughly, then fill it with solar liquid and carry out leakage test. Set the pump speed to suit either the number of collectors or the collector surface area. If required, fine adjustment is carried out with the ball valve within the flow measuring device.
- 1.6 The supply and return pipe are to be insulated up to the thermal insulation.

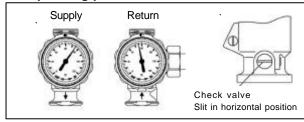


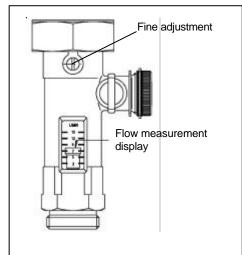


2. Filling the installation:



2.1 Operating position





3. Recomended flow

3.1 Recomended flow for solar transmisssion station type 15/15R (Flat collector)

(max. allowed collectors 8 SLIMLINE or 10 FLATLINE, max. 7 collectors serial)

Pieces FLATLINE	2	3	4	5	6	7	8	9	10
flow [l/min]	2,2	3,3	4,4	5,5	6,6	7,7	8,8	9,9	11,0
flow [l/h]	132	198	264	330	396	462	528	594	660
Pieces SLIMLINE	2	3	4	5	6	7	8	9	10
Pieces SLIMLINE flow [I/min]	2 2,6	3 4,0	4 5,3	5 6,6	6 7,9	7 9,3	8 10,6	9 12,0	10 13,3

5.2 Recomended flow for solar transmisssion station type 30 (Flat collector)

(max. allowed collectors 18 SLIMLINE or 20 FLATLINE, max. 7 collectors serial)

Pieces FLATLINE	10	11	12	13	14	15	16	17	18
flow [l/min]	11,0	12,1	13,2	14,3	15,4	16,5	17,6	18,7	19,8
flow [l/h]	660	726	792	858	924	990	1056	1122	1188
Pieces SLIMLINE	10	11	12	13	14	15	16	17	18
Pieces SLIMLINE flow [I/min]	10 13,3	11 14,6	12 16,0	13 17,3	14 18,6	15 20,0	16 21,3	17 22,6	18 24,0

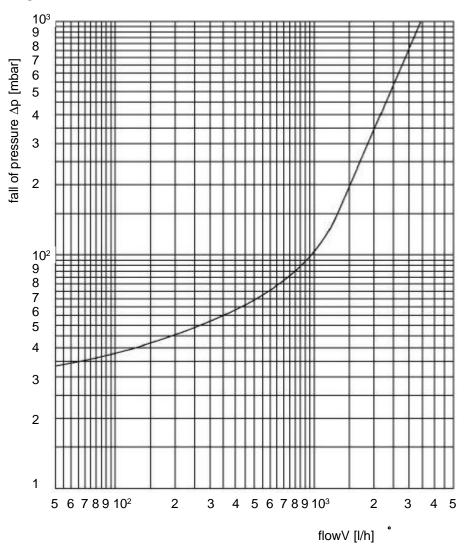
6. Technical datas solar transmission station

Name	Type 15/15R	Type 30
max. pressure	10 bar	10 bar
max. operating temperature	120 °C	120°C
safety valve:	10 bar	10 bar
pump:	Wilo ST 25/6	Wilo ST 25/7
nominal voltage:	AC 230 V	AC 230 V
power input:	level 1: 45 W	level 1: 65 W
	level 2: 65 W	level 2: 85 W
	level 3: 85 W	level 3: 110 W
max. delivery height:	6 m	6,5 m
max. delivery rate:	3,5 m³/h	4 m³/h
flowmeter:	2-15 l/min	7-30 l/min



Installation

Flow diagramm



NAU GmbH

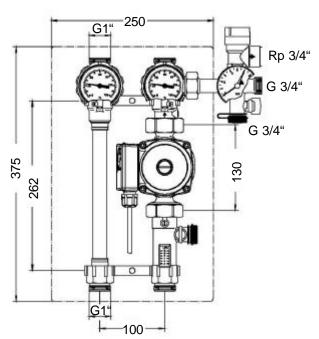
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Measurements



Techn. Änderungen und Irrtümer vorbehalten