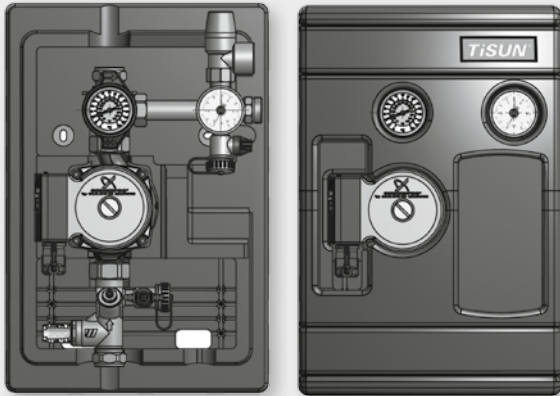


## SOLAR STATION SFE25/SFRE25



**Solar station SFE25 with flow meter and solar pump**  
(max. 25 m<sup>2</sup> collector surface area)

**Solar station SFRE25 with flow meter, solar pump and Simplex solar control unit** (max. 25 m<sup>2</sup> collector surface area)

Single-line solar station (return system) consisting of Grundfos Solar circulation pump, line regulator valve with integrated flow meter, 10 bar safety group with pressure gauge, solar pressure relief valve and connection for solar expansion tank, multi-functional isolation valve with thermometer and integrated metal gravity brake (adjustable by 45° setting of the thermometer control), filling and flushing connections with KFE valve, connection points with solar flat seals, wall mount, solar connections with compression fittings, EPP heat insulation jacket prepared for installation of TiSUN Simplex or Duplex solar control unit (SFRE25 with preinstalled Simplex solar control unit).

**Note:** If this return group is used a gravity brake installed in the forward line is recommended to prevent reverse circulation.

### Specifications solar station SFE25/SFRE25

Illustration Item no.	Item no./type	1510411 / SFE25	1510412 / SFRE25	
1	Solar circulation pump	SFE25 SFRE25	Grundfos Solar 15-60/G 1 x 130 mm	Grundfos Solar 15-60/G 1 x 130 mm
2	Pump cable	Pump cable with Molex plug (H03V2V2)		
3	Collector connection	KVSR 22 mm (nut M28 x 1.5/compression ring 22 mm)		
4	Tank connection	KVSR 22 mm (nut M28 x 1.5/compression ring 22 mm)		
5	Support sleeve set	2 pcs.	For Cu pipe 22 x 1 mm	
6	Expansion tank connection	3/4" male flat sealing		
7	Filling and flushing connections	Safety group	G 3/4" with sealing cap and solar KFE valve 1/2"	
		Flow meter	G 3/4" with sealing cap and solar KFE valve 1/2"	
8	Bracket for wall and tank mounting	Wall installation	2 slot holes with 150 mm spacing, for M6 screws	
		Tank mounting	2 slot holes with 150 mm spacing, for M6 screws (for tank FS-1R)	
9	Retaining clip	Spring steel 2 mm (for fixing return line to mounting)		
10	Fixing material	for tank mounting	2 pcs.	Plastic anchor 8 x 40 mm
			2 pcs.	Chipboard screws 6 x 50 (pan-head)
		for tank mounting	2 pcs.	Fillister head screws DIN 912
			2 pcs.	M6 x 12 mm 8.8 zn Washers M6 8 zn DIN 912
	Pipe centres	Distance to wall	65 mm	
11	Flow meter	Type	Flow meter 1"Fl. x M28 x 1.5 male cpl.	
		Housing material	Brass	
		Seal material	EPDM	
		Viewing glass material	Plastic, temperature resistant and impact-resistant	
		Nominal size	ND 15	
		Measuring range	2–16 litre/min	
		Max. pressure	10 bar	
		Operating temperature	120 °C (10 bar)	
		Max. temp.	120 °C	
		Upper connection	Pump G 1" flat sealing	
		Spring material	Stainless steel 1.4301	
Lower connection	KVSR 22 mm/M28 x 1.5			
Installation height	86 mm			

# SOLAR STATIONS

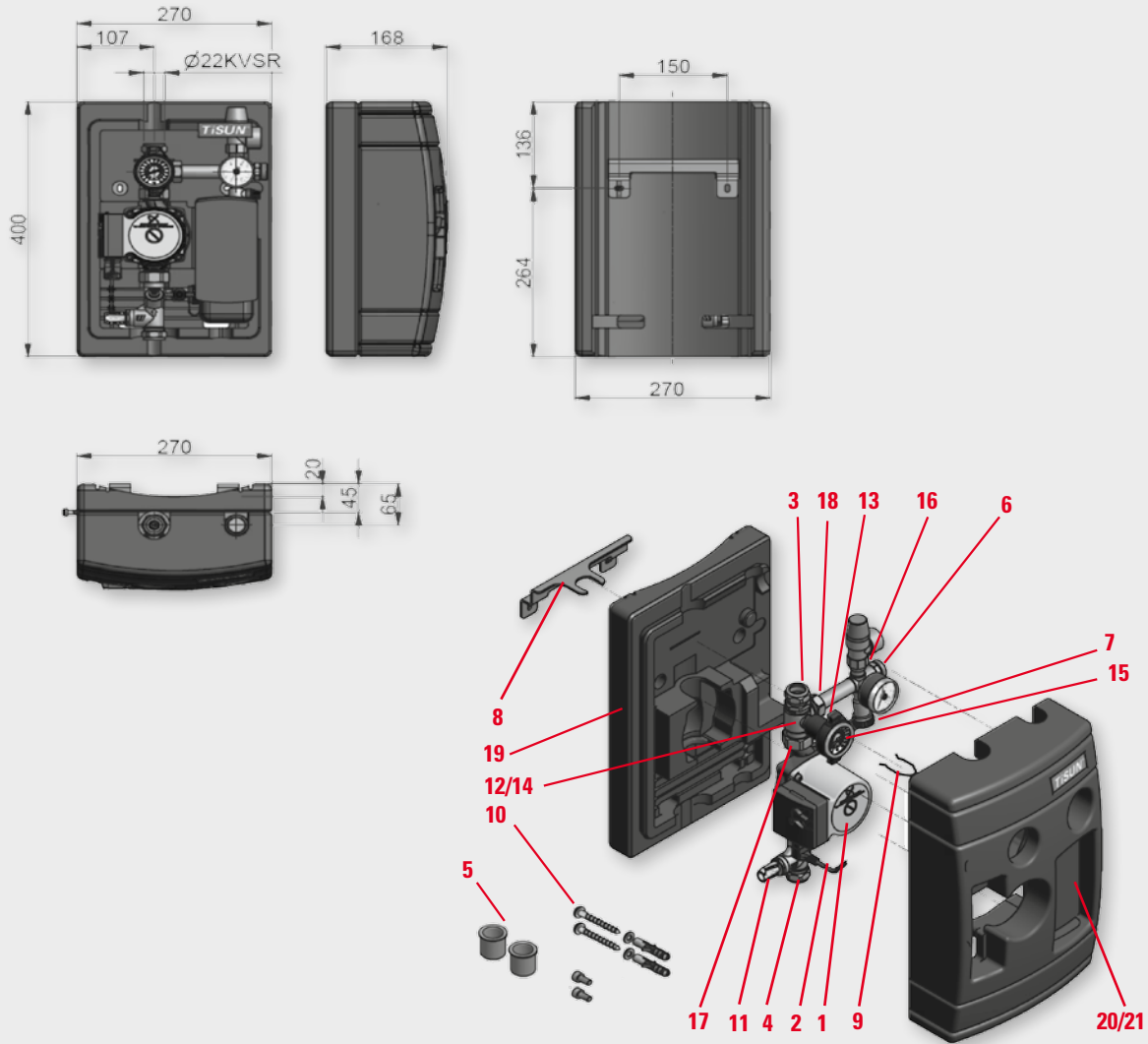
## SOLAR STATION SFE25/SFRE25

### Specifications solar station SFE25/SFRE25 (continued)

12	Multi-functional return valve group	Multi-functional valve group with ball valve, gravity brake and thermal grip, connection for safety group at right	Ball valve	22 mm
			Connections	Solar: 22 mm KVS Pump: 1" flat sealing Safety group 3/4" – right fitting, flat sealing
13	Thermo control	Operating element		Thermo control blue L = 52R, operates ball valve and gravity brake
14	Gravity brakes	Return		Installed in multi-functional return ball valve
		Material		Brass
		Seal		O-ring 70 EPDM 291
		Opening pressure		2 x 200 mm WC (by means of metal spring)
		Adjustable		by 45° setting of thermo control
		Max.temp.		180 °C
15	Solar dial thermometer	Return		Installed in return thermo control
		Scale		0–160 °C in 2 °C divisions
		Diameter		50 mm
		Length		52 mm
		Colour		Silver RAL 9006
16	Solar safety group	Mounted on multi-functional return valve group		
		Solar pressure gauge		0–10 bar, diameter 52 mm (EN 837-1, CL. 2.5)
		Solar pressure relief valve		SV/SOL100 1/2"
		Standard/certificates		DIN 4757-1/EN 12165-99 CW617N/TÜV SV 07-2008
		Nominal pressure		NP 10
		Response pressure		10 bar
		Max. temp.		160 °C
		Glycol-water mixture		Max. 50%
17	Pump flat seals	Size		30 x 22 x 2-1"
		Material		AFM 34 light grey
		Continuous temperature		Liquid 250 °C, vapour 200 °C
		Short-term peak temp.		400 °C
18	Safety group flat seal	Size		17 x 24 x 2 3/4"
		Material		AFM 34 light grey
		Continuous temperature		Liquid 250 °C, vapour 200 °C
		Short-term peak temp.		400 °C
19	Insulation	Material		EPP
		Thermal conductivity ( $\lambda$ )		0.041 W/(mK)
		Max.temp		120 °C
		Short-term temp.		150 °C
		Height		400
		Width		270 mm
		Depth		168 mm
		Individual parts		1 pc. Lower shell 400 x 270 x 45 1 pc. Upper shell 400 x 270 x 123
20	Solar control unit			Simplex Basic single-loop solar control unit
21	Bracket for solar control unit			Simplex Basic single-loop solar control unit

## SOLAR STATION SFE25/SFRE25

### Illustrations solar station SFE25/SFRE25



### Pressure drop and residual head solar station SFE25/SFRE25

