Stratified charging station
SLS50

The stratified charging station SLS50 is used to provide optimal stratification of solar energy in a stratified tank. Using a generously proportioned heat exchanger and optimally harmonised components, the solar yield can be harnessed to the best extent possible.

Statified charging station SLS50

Specifications

Model	SLS50
Dimensions	
W x H x D [mm]	496 x 930 x325
Cover	EPP black RG 45 g/l
Weight	25 kg
Solar piping	Copper Pipe ø 22mm * 0,8mm
Buffer piping	metal hose stainless steel 1.4404, ø 26,2mm*0,18mm
Connections	
KFE valve filling nozzle	G3/8“ AG
KFE valve discharge nozzle	G3/8“ AG
Buffer	G1“ AG
Solar inflow line	G1“ AG
Expansion tank	G3/4“ AG
Max. operating pressure	
Collector circuit	max. 6 bar
Buffer circuit	max. 3 bar
Solar pump	
Nominal voltage	230 VAC/ 50 Hz
Nominal output	30 - 70 W
Max. delivery height	0,3 - 7 m
Buffer charge pump	
Nominal Voltage	230 V / 50 Hz
Nominal output	30 - 70 W
Max. delivery height	0,3 - 7 m
Plate heat exchanger	(glycol/water)
Power	~ 26 kW
Inlet temperature	60°C (glycol)/ 29 °C (water)
Outlet temperature	35°C (glycol)/ 54 °C (water)
Flow rate amount	970 kg/h

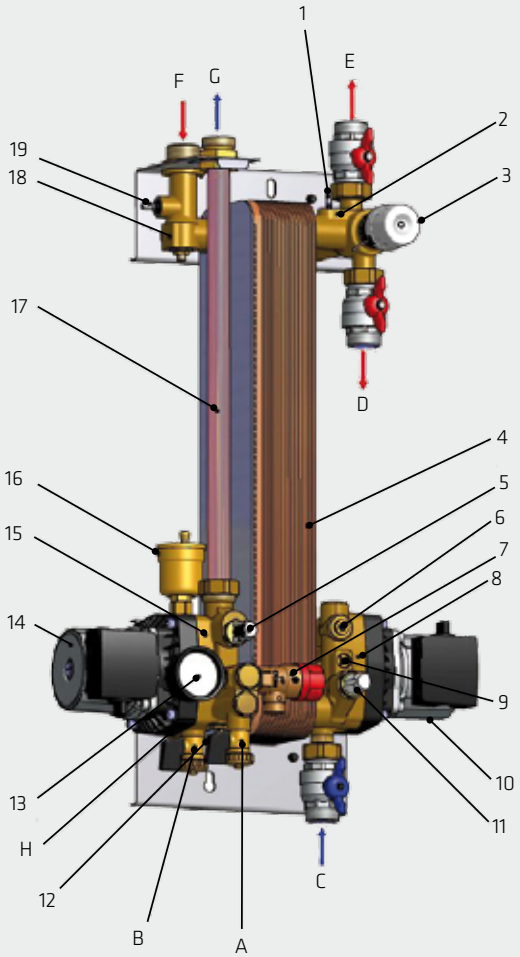
Advantages:

Efficiency:
- optimal heat exchange through plate heat exchanger technology

Warm water comfort:
- a maximum solar flow temperature can be reached due to a controlled flow rate - goal temperatur 60°C
- Hot water production is prioritized through stratification levels in the storage tank

Heating support:
- The maximum solar yield is produced with optimum heat exchange through the plate heat exchanger, controlled flow rate and the stratification principle

Ready-to-install:
- the complete module including the controller and temperature sensors can be mounted directly onto the tank, which is space and time saving



1 Temp. sensor - buffer inflow line
2 Mixer block
3 Acutator (electrical)
4 Heat exchanger
5 Solar circuit flow meter
6 Buffer circuit adjustment valve
7 Over pressure valve 6 bar
8 Buffer block
9 Temperatur sensor - buffer return line
10 Buffer circuit pump
11 Buffer circuit flow meter
12 Solar circuit adjusment valve
13 Gauge
14 Solar circuit pump
15 Collector block
16 Solar vent
17 Solar return pipe
18 Solar block
19 Temp. sensor - solar line

Anschlüsse

A KFE-valve filling nozzle
B KFE-valve discharge nozzle
C Buffer return line COLD ball valve
D LOWER buffer inflow line, ball valve
E UPPER buffer inflow line, ball valve
F Solar inflow line
G Solar return line
H Expansion tank connection