

Solar Pump Station Solar Pump Station Modules

Buderus

Bosch Group



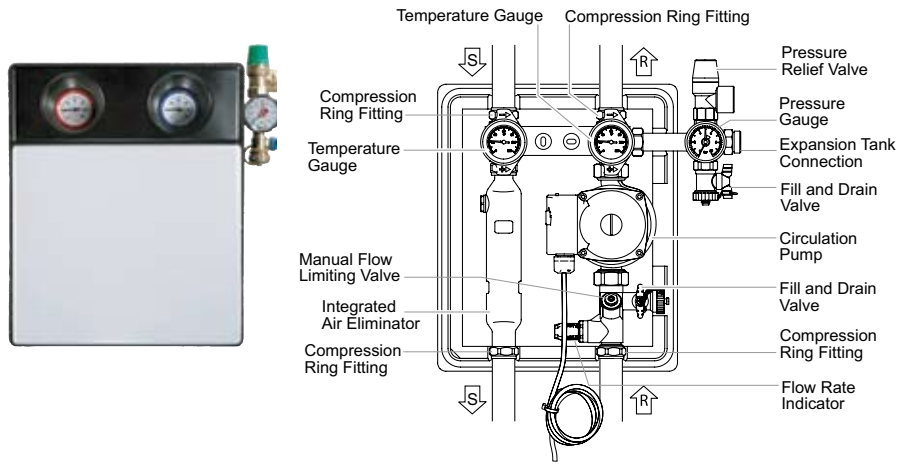
Compact and Convenient

- Pre-assembled, fully integrated 2-line pump kit
- Modules connect to solar pump station to provide common solar hydraulic options
- Easy-to-install
- Quiet solar system pump
- All operational and safety devices in a single unit
- Line connections with compression fittings
- Integrated fill and drain valves for easy service and maintenance

Comfortable. Efficient. Intelligent Heating.

Solar Pump Station Logasol KS0105 / KS0110 / KS0120

Buderus pump stations are compact and convenient. They transfer the heat from the collectors to the storage tank, working in conjunction with the control to maintain a constantly high efficiency.



Solar Pump Station Modules Modules SBU / SBH / SBL / SBT / SBS

These building-block designed, pre-integrated components plug into our Solar Pump Station to provide common hydraulic options for solar applications.

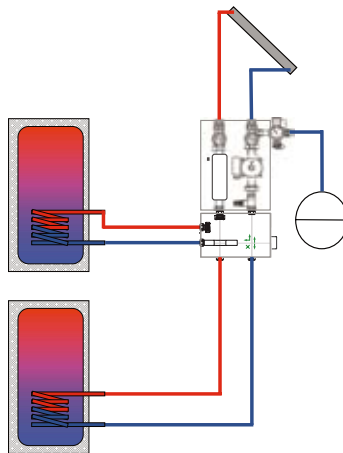
The modules offer:

- Simplified design for complex systems
- Easy installation and reduced time on job site
- Help preventing installation and system mistakes

SBU Module

Change Over Unit for Dual Tanks

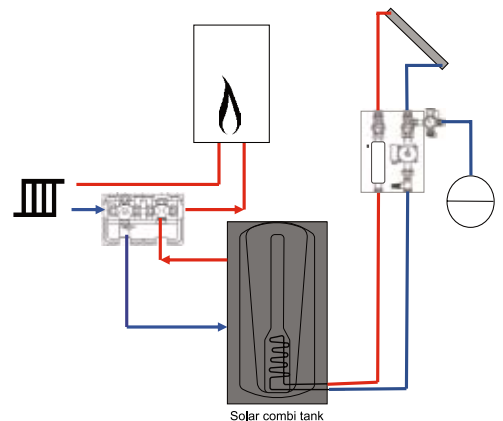
Used with solar systems with two storage tanks and one solar pump station. Priority/first tank connects on the left side, second tank on the bottom. Connects right below the solar pump station.



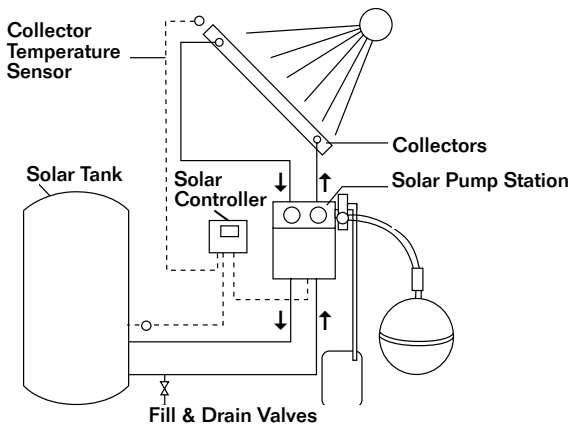
SBH Module

Heating Support Unit

Solar space heating with return temperature increase. Horizontal or vertical mounting.

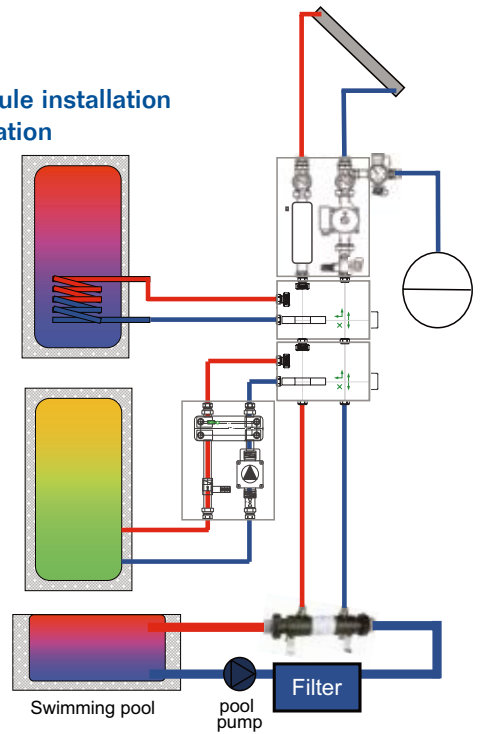


Piping of a Solar Thermal System Using the KS0105 Solar Pump Station



Example of a multi-module installation with the Solar Pump Station

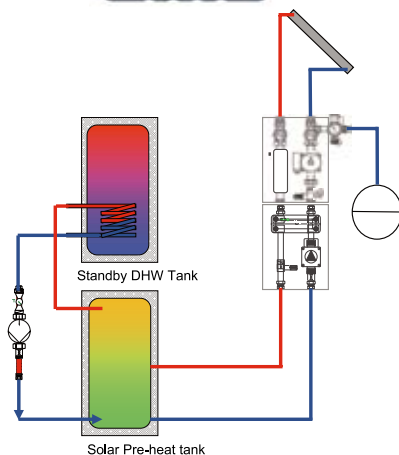
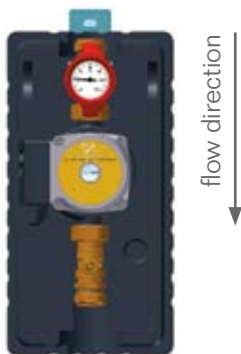
Two SBU Modules are connected to 2 separate tanks, with an SBT Module as a heat exchanger on one tank, and an SBS Module is integrating with a swimming pool.



SBL Module

Reload Unit

To reload from one tank to another, when the solar pre-heat tank has a higher temperature than the second standby DHW tank. Flow direction: top down. Use with domestic water or heating water.

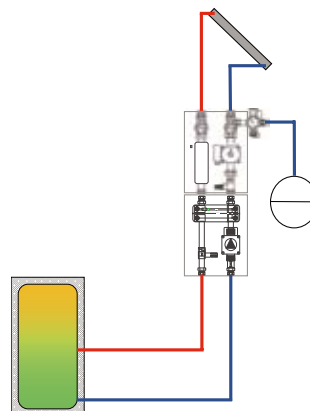


SBT Module

System Division Unit

Used with a buffer tank without internal heat exchanger, keeping the solar fluid and heating water loops separate. Max. 8 collectors, 250 gallon tank.

Performance: 34,000 BTU/Hr (10kW)
 1.8 gpm (400l/m) dT 45°F (25°C)
 DWH: 131/86°F (55/30°C)
 Space Heating: 77/120°F (25°C/50°C)

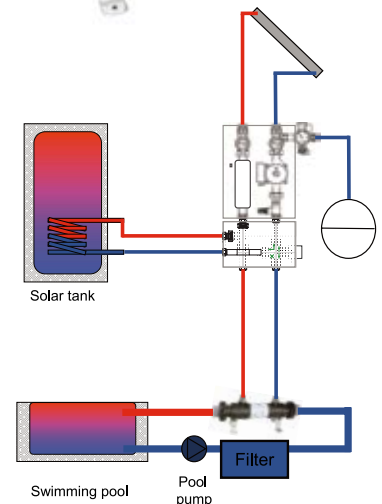


SBS Module

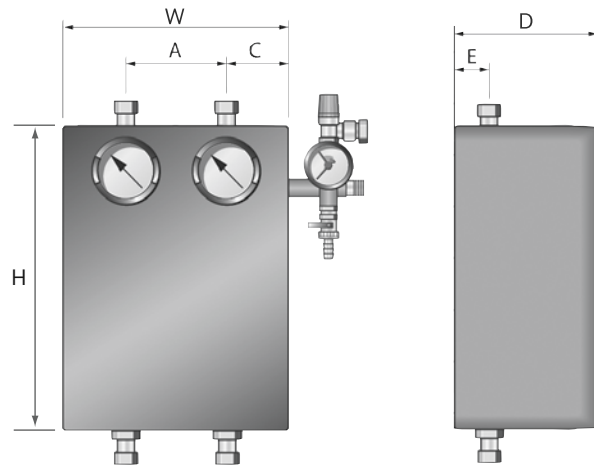
Pool Heat Exchanger

Installs directly in the pool circulation behind the pool filter to integrate the solar system with a swimming pool. The pool pump needs to be operating in conjunction with the solar system. Max. 10 collectors.

Performance: 42,000 BTU/Hr (12kW)
 Solar: 2.2 gpm (500l/m) 136/97°F (58/36°C)
 Pool: 44 gpm (10,000l/h) 68/70°F (20/21°C)



Solar Pump Station



Model	KS0105	KS0110	KS0120
Part Number	7747021981	7747021982	7747021983
Dimensions	Height H	14" (355 mm)	14" (355 mm)
	Width W	11½" (290 mm)	11½" (290 mm)
	Depth D	9¼" (235 mm)	9¼" (235 mm)
	A	5" (130 mm)	5" (130)
	C	3" (80 mm)	3" (80 mm)
	E	2" (50 mm)	2" (50 mm)
Maximum Collectors	5	10	20
Flow and Return Connections (compression fittings)	½"	¾"	1"
Expansion Vessel Connection	¾"	¾"	¾"
Safety Valve	87 psi (6 bar)	87 psi (6 bar)	87 psi (6 bar)
Circulation Pump (Grundfos Solar)	Model 15-58	Model 15-58	Model 25-99
Electric Power Supply	120 VAC	120 VAC	120 VAC
Maximum Power Consumption	60 W	125 W	195 W
Maximum Current Strength	0.25 A	0.54 A	0.85 A
Flow Limiter Range gallons per min. (liters per min.)	0.13-1.6 gpm (0.5-6 lpm)	0.53-4.2 gpm (2-16 lpm)	2.1-6.9 gpm (8-26 lpm)
Weight	16 lbs. (7.1 kg)	16 lbs. (7.1 kg)	21 lbs. (9.3 kg)

Solar Pump Station Modules

Model	SBU	SBH	SBL	SBT	SBS
Part Number	8718572675	8718572677	7739300895	8718572704	8718572676
Width x Height x Depth	11½" x 8" x 8½" (290/203/217 mm)	11½" x 7" x 5¼" (290/174/135 mm)	7½" x 14" x 7" (185/355/180 mm)	11½" x 15" x 8½" (290/374/217 mm)	20¾" x 5" x 8½" (525/120/210 mm)
Connection	Compression fitting ½"	Compression fitting ¾"	Compression fitting ½"	Compression fitting ½"	G 3/4", PVC 2" (requires flexible coupling)
Max. Pressure	87 psi (6 bar)	87 psi (6 bar)	145 psi (10 bar)	87 psi (6 bar)	Solar: 87 psi (6 bar) Pool: 36 psi (2.5 bar)
Valves/Gravity Check Valve			x / x	x / x	
Thermometer/Manual Air Vent			x / -	- / x	
Flow Meter				0.5-4.2 gpm (2-16 l/m)	
Pump			9.8 feet of head (3m)	13 feet of head (3m)	
Temperature Sensor				6 / 9.7 mm	6/8 mm
Motorized diverter valve	2.5 W (normally open)	2.5 W (normally closed)			
Pressure Loss				4" WC (10 mbar)	Solar: 4" W.C. (10 mbar) Pool: 40" W.C. (100 mbar)
Performance Heat Exchanger				35,000 BTU/Hr (10 kW)	