

# Solar Thermal Water Heating Packages & Components

## 40 Years Of German Technology

### Technical Data



SOLkits	SOLkit 1 <sup>1</sup>	SOLkit 2 <sup>1</sup>	SOLkit 3 <sup>1</sup>	SOLkit 2W <sup>1</sup>	SOLkit 3W <sup>1</sup>
Item number	612502	612502	612503	612512	612513
Collectors:	1 - SOL 27 Premium S	2 - SOL 27 Premium S	3 - SOL 27 Premium S	2 - SOL 27 Premium W	3 - SOL 27 Premium W
Tank	SB 300 E (80 gal)	SB 300 E (80 gal)	SB 400 E (105 gal)	SB 300 E (80 gal)	SB 400 E (105 gal)
Pump Station	SE Flowstar Kit <sup>2</sup>	SE Flowstar Kit <sup>2</sup>	SE Flowstar Kit <sup>2</sup>	SE Flowstar Kit <sup>2</sup>	SE Flowstar Kit <sup>2</sup>
Controller	SOM 6 Plus	SOM 6 Plus	SOM 6 Plus	SOM 6 Plus	SOM 6 Plus
Lineset	50' dual line with fittings	50' dual line with fittings	50' dual line with fittings	50' dual line with fittings	50' dual line with fittings

<sup>1</sup> SOLkits include inlet/outlet connector, collector sweat fittings, glycol.

<sup>2</sup> Pump Station Kit includes circulator, 2 boiler drains, expansion tank, pressure relief valve, check valve, pressure gauge, return line thermometer, air vent, tank mounting kit.

SOL 27 Premium Collector	Standard / Vertical	Wide / Horizontal
Item number	230016	230017
Height	85.5" / 2171 mm	46.1" / 1171 mm
Width	46.1" / 1171 mm	85.5" / 2171 mm
Depth	3.8" / 96 mm	3.8" / 96 mm
Weight	88.2 lb / 40 kg	89.3 lb / 40.5 kg
Casing material	Aluminum, corrosion resistant	
Thermal insulation thickness	2" / 50 mm	
Thermal insulation material	Mineral wool, low outgassing, WLG 040	
Collector connection	22 mm plug-in connector	
Max. idle temperature	<410°F / <210°C	
Absorption level	95%, ±2%	
Emission level	5%, ±1%	
Collector yield	>525 / kWh/(m <sup>2</sup> p.a.)	

Please check our website or literature for additional information on these collectors.

Solar Tanks	SB 300 E	SB 400 E
Item number	234110	234111
# of coils	1	1
Storage capacity	79.3 gal / 300 l	105.6 gal / 400 l
Weight empty	313 lb / 142 kg	399 lb / 181 kg
Weight full	1,010 lb / 458 kg	1,334 lb / 605 kg
Insulation thickness	2" / 50 mm	
Height with insulation	61 <sup>1</sup> / <sub>8</sub> in / 1552 mm	60 <sup>13</sup> / <sub>16</sub> in / 1544 mm
Width with insulation	25 <sup>9</sup> / <sub>16</sub> in / 650 mm	29 <sup>1</sup> / <sub>2</sub> in / 750 mm
Standby losses in 24 hrs	2.8 kW / 9,553 BTU	3.0 kW / 10,236 BTU
Water connections	1" male NPT	
Backup heating element	3.0 kW / 10,236 BTU	

SB 300 E & SB 400 E Certified to UL Std. 174 Conform to CAN/CSA Std. 22.2 No. 110-94

SBB 300 & SBB 400 Certified to IAS U.S. requirements for indirect fired water heaters for use with external heat source. No. 1-91, Dates June 6, 1992

› [Information on our complete line of DHW storage tanks.](#)

Controller	SOM 6 Plus
Item number	230141
Dimensions	6.77" x 4.33" x 1.92" 172 mm x 110 mm x 49 mm
Inputs	4 Pt1000 temp. sensors
Outputs	1 semi-conductor relay for pump speed control
Bus	RESOL vBus®
Power supply	100-240 V
Power consumption	< 1 W (standby)

Please check our website or literature for additional information on this controller, or for information on other controllers.

**For full warranty information on all SOLkits and individual system components, please visit our website.**

Pump Station	SE Flowstar Kit
Item number	221339
Pump	80 W, 3-speed Wilo
Pressure gauge	0-87 psi
Temp gauge	32-320°F
Drain valves	2
Internal piping size	3/4"
Max. collector area	540 sq. ft.

Please check our website or literature for additional information on this pump station, or for information on other pump stations.

**SOLkits do not include installation. SOLkits do not include piping insulation as this component varies with site requirements. Please check our website or literature, or call to discuss your needs for any installation. The appropriate components can be included with any order.**

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