

## Accessories


### EXPANSION VESSEL

NAME	Art. N	pic	capacity	height	diameter	connection	Max working pressure	Max working temperature
VS12	3549		12 l	295 mm	Ø 280 mm	3/4"	8 bar	100°C
VS18	3550		18 l	465 mm	Ø 280 mm	3/4"	8 bar	100°C
VS24	3551		24 l	492 mm	Ø 280 mm	3/4"	8 bar	100°C
VSV35	3552		35 l	450 mm	Ø 365 mm	3/4"	8 bar	100°C

### CONNECTOR and FITTING FOR SOLAR COLLECTOR

NAME	Art. N	pic	dimensions	connection
Pocket for solar thermoprobe	3549			Ø 22 - G3/4"
Flexible metal hoses	3550		L = 50 mm	1"
Compression fittings for copper pipe Ø 22	3552			

### SOLAR CONTROLLER

NAME	Art. N	pic	dimensions	description: Digital control system for the management of solar heat plant.
Elios X3	3553		210x120x50	Programmable digital control for thermal solar systems inclusive of solar collectors, circulation pumps and/or diverter valves, accumulation tanks and integrative heating. Besides the fundamental function of differential regulator of temperature, it offers many options and advanced functions to manage plant schemes of various complexities and optimize the overall performance of the plant - two outputs for phase modulation and control of pumps - visualization of temperature for 24 hours - "solar cooling" function - "anti freeze" function - "against blocking the pump" function
PT1000		n/a	-	
NTC		n/a	-	

Thanks to the exclusive and versatile design, it is possible to install ELIOS X3 both in vertical and horizontal position (0°, 90°, 180°, 270°), wall fitted and in a control system. 12 possible schemes of application.  
 2 triac output, 1 relay output, 6 NTC or PT1000 probes inputs, dot matrix graphic display (128X64 pixel) backlit, 4 buttons, 1 state led; box suitable for wall mounting or in a control system.

### AUTOMATIC AIR VENT VALVE

NAME	Art. N	pic	dimensions	connection
MV15 SOL	3556		Ø 49/77	1/2"

**description**  
 Automatic air vent valve for solar systems with unscrewable cover for inspection. Body and cover of brass EN 12165-99 CW617N. Float - stainless steel AISI 304. Lever - reinforced composite. Shutter - FPM elastomer. Spring - stainless steel AISI 302. Max. operating pressure - 12 bar. Max. operating temperature - 160°C.

### SOLAR PUMP GROUP



NAME	Art. N	pic	dimensions	Max. working pressure	Max. working temperature	debit range
FlowBox Solar 8010	3546		308/270/220	10 bar	110°C	2-16 l/min.
FlowBox Solar 7000	3547		355/340/200	10 bar	110°C	4-36 l/min.

**Caution!**  
 Pressure and temperature should be kept within the limits shown in the adjacent diagram. Avoid temperatures higher than 100°C during continuous operation! In short-term operation (2 h) to +120°C.

**description FlowBox Solar 8010**  
 Ready to mount, compact solar unit. Overall height 308 mm., standard circulation pumps with installation length of 130 mm - cabling ex works, balancing valve WattFlow with fill and drain-cock, safety unit with pressure gauge, solar safety relief valve 6 bar and fill and drain-cock, wall bracket including corrugated tube to connect with the expansion vessel, arrangeable metal gravity brake via 45° position of the thermo handle, thermometer integrated in multifunction isolating valve, joints with solar-fit gaskets, EPP heat insulation. Use of special solar pumps (WILO ST 15/6 ECO or GRUNDFOS SOLAR 15-60).

**description FlowBox Solar 7000**  
 Ready to mount, compact solar return line. Overall height 355 mm., standard circulation pumps with installation length of 180 mm - cabling ex works, balancing valve WattFlow with fill and drain-cock, safety unit with pressure gauge, solar safety relief valve 6 bar and fill and drain-cock, wall bracket including corrugated tube to connect with the expansion vessel, arrangeable metal gravity brake via 45° position of the thermo handle, thermometer integrated in multifunction isolating valve, joints with solar-fit gaskets, EPP heat insulation. Use of special solar pumps (WILO ST 25/6 ECO or GRUNDFOS SOLAR 25-60).

### ROOF SET

NAME	Art. N	pic	description
MS FR	3541		Galvanized steel profiles and screws. They are sent totally packaged, encoded and with installation manual.  Available for: - flat roofs - models MS FR and MS FR Plus. Possible angles from 25° to 55° - sloping roofs - model MS TR - for one solar collector - model MS FR. - for two and more collectors - model MS FR Plus. Should add to MS FR two profiles for each additional collector.
MS FR Plus	3542		
MS TR	3542	n/a	

### PG concentrate

NAME	Art. N	pic	description
Monopropylene Glycol HP	3557		Non-toxic antifreeze fluid. It is supplied in packing - 5 kg (concentrate). Antifreeze protection of Monopropylene Glycol HP (concentrate) -60°C. Antifreeze protection of mixture Monopropylene Glycol HP:Water (50:50) -30°C. Antifreeze protection of mixture Monopropylene Glycol HP:Water (34:66) -20°C.