

FlowCon Basic/Premium

Innovative system technology for modern heating and solar thermal systems



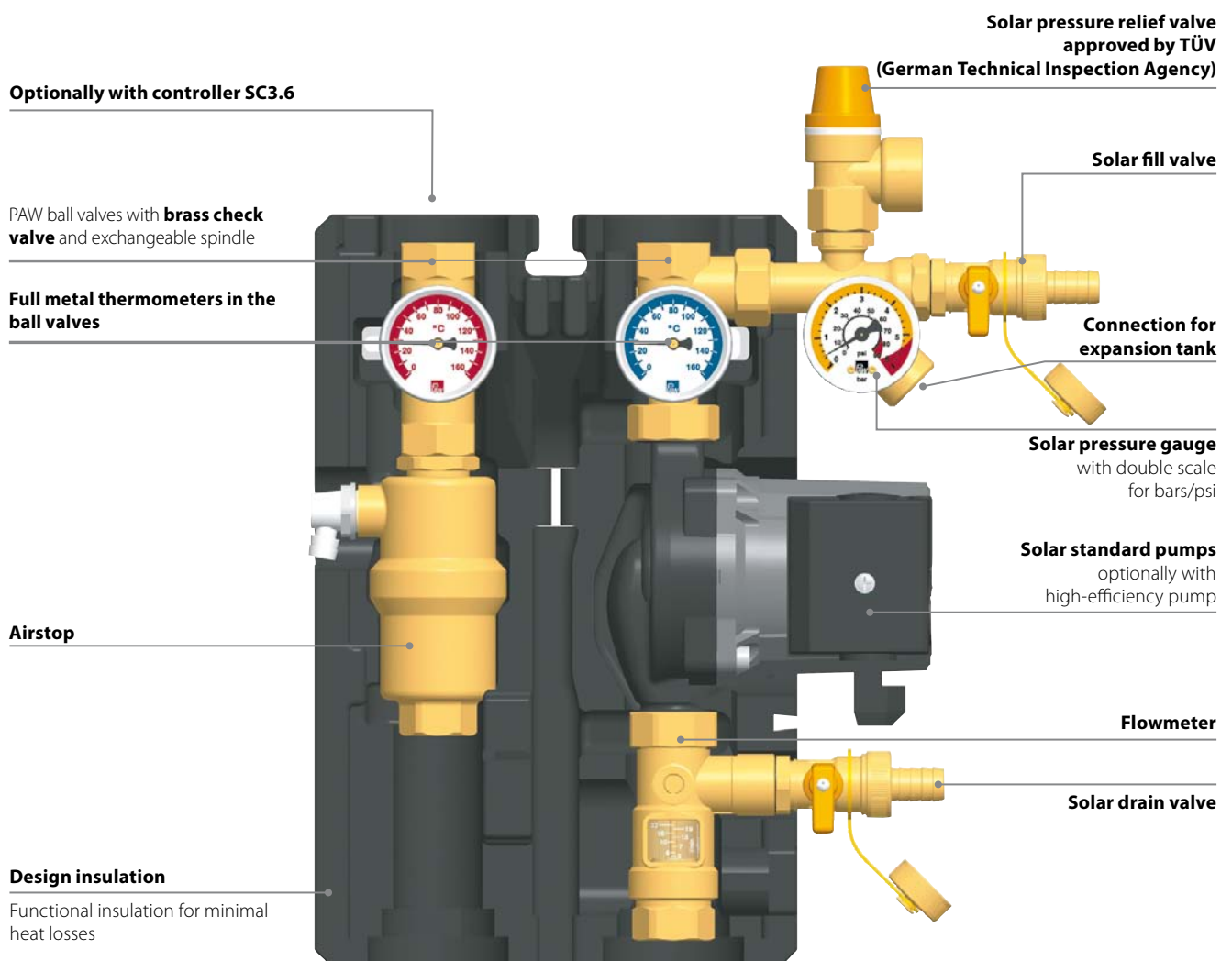


FlowCon Basic

Compact and completely premounted solar station with optional controller for system monitoring

The FlowCon Basic is premounted for a simple and quick installation and offers compact design at best operation performance. It is ideally suited for assembly to a storage tank.

The solar station offers you the following advantages:



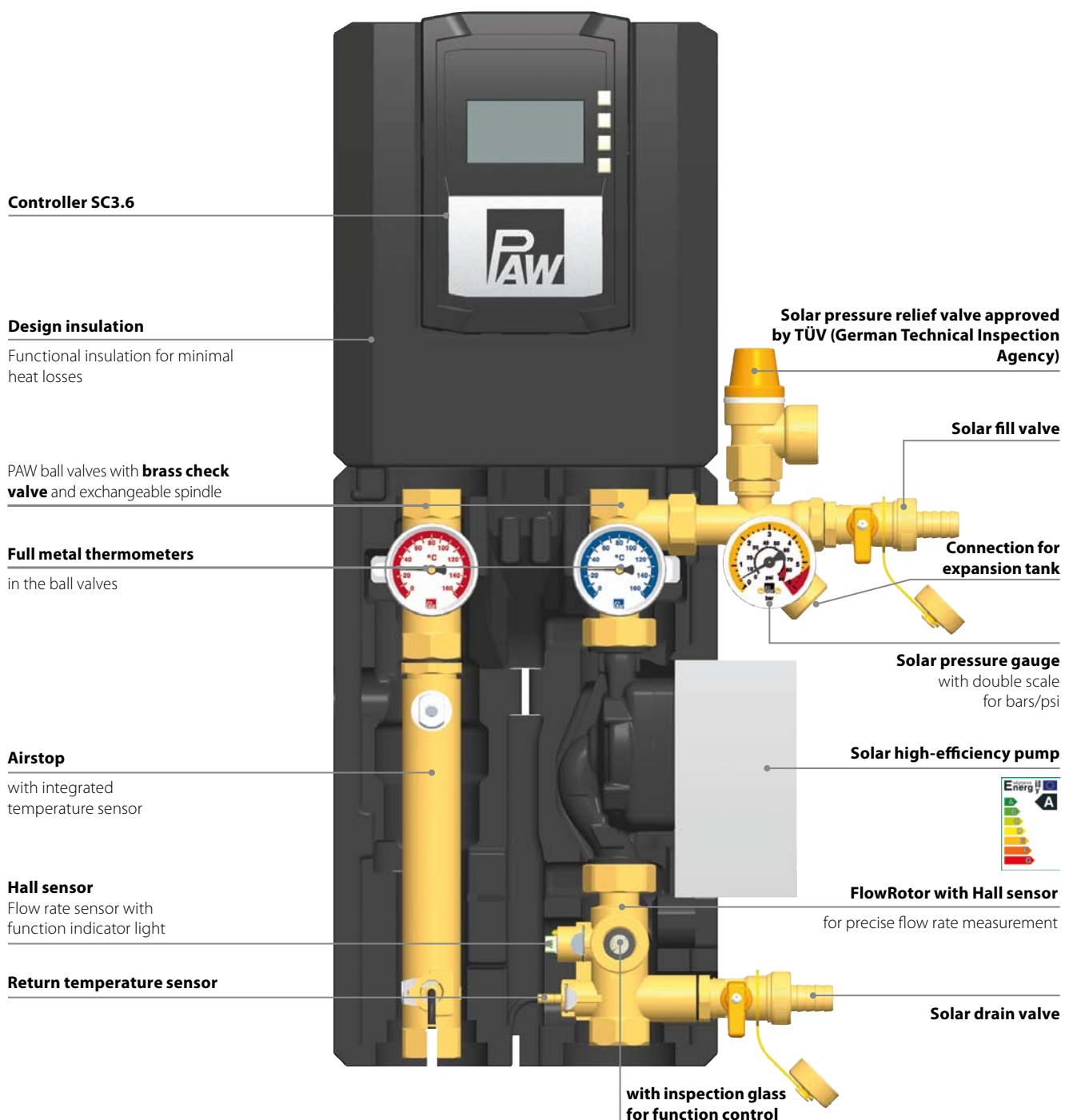


FlowCon Premium

Compact and completely premounted solar station with integrated controller and sensors for system monitoring

FlowCon Premium comprises a digital flow rate and temperature sensor in the return line. The flow line is equipped with a temperature sensor. The station is ideally suited for assembly to a storage tank.

The solar station offers you the following advantages:

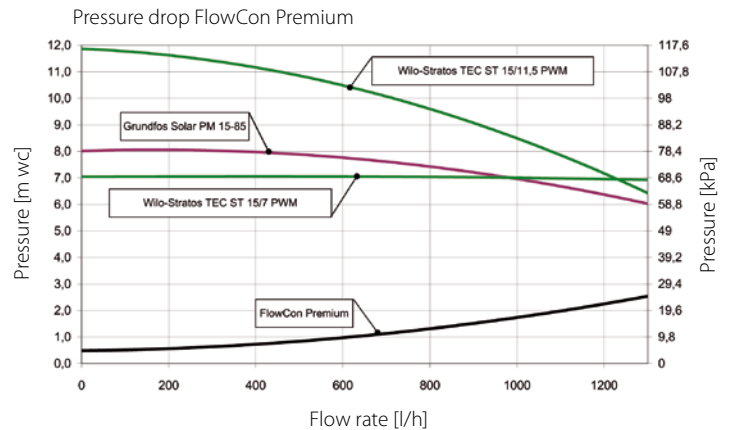
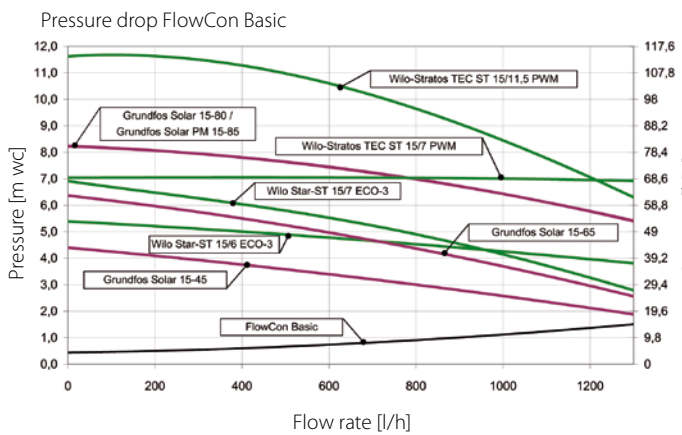




Technical data

FlowCon Basic - DN 20	
Materials	
Valves and fittings	Brass
Gaskets	Klingersil/EPDM
Insulation	EPP
Check valves	Brass
Technical data	
Max. pressure	6 bars
Max. operating temperature	120 °C
Equipment	
Airstop	
Check valves	2 x 200 mm wc
Flowmeter	Measuring range 3 - 22 l/min
Pressure relief valve	6 bars
Pressure gauge	0-6 bars
Controller	SC3.6
Dimensions	
Connections	¾" internal thread
Centre distance	100 mm
Width	334 mm
Height with controller	560 mm
Height without controller	383 mm

FlowCon Premium - DN 20	
Materials	
Valves and fittings	Brass
Gaskets	Klingersil/EPDM
Insulation	EPP
Check valves	Brass
Technical data	
Max. pressure	6 bars
Max. operating temperature	120 °C
Equipment	
Airstop	
Check valves	2 x 200 mm wc
FlowRotor	Measuring range 0.5 - 15 l/min
Pressure relief valve	6 bars
Pressure gauge	0-6 bars
Controller	SC3.6
Dimensions	
Connections	¾" internal thread
Centre distance	100 mm
Width	334 mm
Height with controller	560 mm



Application range / Collector surface depending on the operation mode

Flow types in the collector field:

Low-Flow 0.2 litre/minute per m² collector surface

High-Flow 0.5 litre/minute per m² collector surface

FlowCon Basic

with Flowmeter 3 - 22 l/min

for a collector surface of up to **45 m²**

for a collector surface of up to **30 m²**

FlowCon Premium

with FlowRotor 0.5 - 15 l/min

for a collector surface of up to **45 m²**

for a collector surface of up to **30 m²**

Please note:

In order to guarantee a trouble-free function it is essential to carry out a hydraulic dimensioning/check of the solar installation.



Solar controller SC3.6

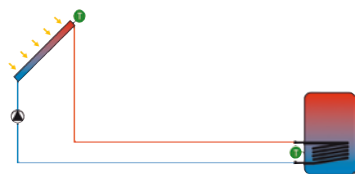


The SC3.6 is completely mounted and preset so that only the collector field sensor and the storage tank sensor must be installed and connected. Not only temperature measurement, but also heat quantity balancing is possible by means of the sensors. The controller comprises 11 preset systems and can be used in solar installations with up to two collector fields or up to two domestic hot water or buffer storage tanks. The graphically animated LCD display gives a quick and simple overview on the solar installation and the operating conditions. Icons facilitate the programming of the controller.

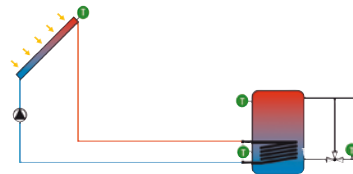
Overview controller functions

Controller SC3.6

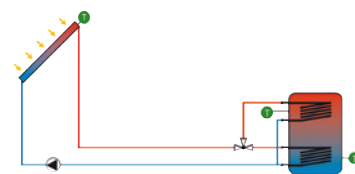
Display	graphically animated LCD display	Alarm output	yes
Operation	4 pushbuttons	Circulation	yes
Relay outputs	2 x 230 V, semiconductor relay	(depending on time / temperature)	
	1 x potential-free output	Vacations (storage tank recooling)	yes
Sensor inputs	2 x PWM signal for speed control	Solid fuel boiler	yes
	5 x PT1000	Reduction of stagnation	yes
Flow rate sensor (impulse)	yes	Active cooling	yes
FlowRotor		Quick tank charging	yes
Heat quantity	yes	Thermostat	yes
(impulse sensor, calculation)		Interval / tube collector	yes
Supplementary heating	yes		



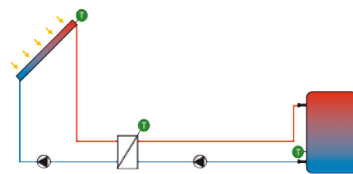
Internal heat exchanger, pump logic



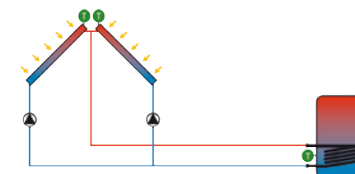
Internal heat exchanger, pump logic, return temperature maintenance



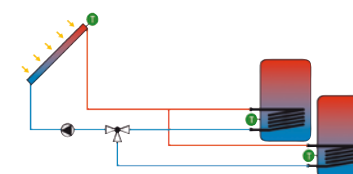
Internal heat exchanger, zone charging, valve logic



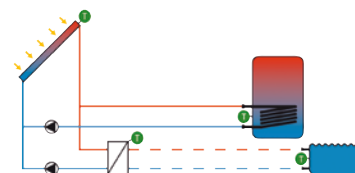
External heat exchanger, pump logic



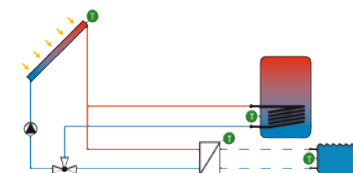
2 collector fields, internal heat exchanger, pump logic



2 storage tanks, internal heat exchanger, valve logic








Storage tank and swimming pool, stand-alone operation of the external heat exchanger, pump logic



Storage tank and swimming pool, stand-alone operation of the external heat exchanger, valve logic

Order data

Illustration	Item	Item no.
 	FlowCon Basic - DN 20 with controller SC3.6	
	Wilo-Stratos TEC ST15/1-7 PWM , high-efficiency pump Wilo-Stratos TEC ST15/1-11.5 PWM , high-efficiency pump Wilo-ST 15/4 ECO , 3-speed Wilo-ST 15/6 ECO , 3-speed Wilo-ST 15/7 ECO , 3-speed Wilo-ST 15/8 ECO , 3-speed Grundfos PM 15-85 , high-efficiency pump Grundfos Solar 15-45 , 3-speed Grundfos Solar 15-65 , 3-speed Grundfos Solar 15-80 , 2-speed	7655213WH7 7655213WH11 7655213WS4 7655213WS6 7655213WS7 7655213WS8 7655213GH8 7655213GS4 7655213GS6 7655213GS8
	FlowCon Basic - DN 20 - controller to be obtained by the customer	
	Wilo-Stratos TEC ST15/1-7 PWM , high-efficiency pump Wilo-Stratos TEC ST15/1-11.5 PWM , high-efficiency pump Wilo-ST 15/4 ECO , 3-speed Wilo-ST 15/6 ECO , 3-speed Wilo-ST 15/7 ECO , 3-speed Wilo-ST 15/8 ECO , 3-speed Grundfos PM 15-85 , high-efficiency pump Grundfos Solar 15-45 , 3-speed Grundfos Solar 15-65 , 3-speed Grundfos Solar 15-80 , 2-speed	7655210WH7 7655210WH11 7655210WS4 7655210WS6 7655210WS7 7655210WS8 7655210GH8 7655210GS4 7655210GS6 7655210GS8
	FlowCon Premium - DN 20 with controller SC3.6	
	Wilo-Stratos TEC ST15/1-7 PWM , high-efficiency pump Wilo-Stratos TEC ST15/1-11.5 PWM , high-efficiency pump Grundfos PM 15-85 , high-efficiency pump	7653513WH7 7653513WH11 7653513GH8
	Temperature sensor Pt1000 for extended functions <ul style="list-style-type: none"> • Measuring range: - 50 °C - + 180 °C • Connection: 1.5 m of silicone cable • Dimensions: d = 6 mm 	
	Temperature sensor Pt 1000	E13170
	Connection set DN 20 for diaphragm expansion tank	
	Stainless steel corrugated hose, wall bracket with mounting equipment, tank coupling with brass valves	437509
	Stainless steel corrugated hose, wall bracket with mounting equipment, cap valve	437510