

## Solar station FlowCon FA

**USE in closed loop design only. The circulation unit is used on the primary circuit of solar heating systems to control the temperature in the hot water storage. The pump inside the unit is activated by the signal from the differential temperature regulator. In addition, this unit contains the functional and safety devices for optimum circuit control.**

### Your advantages:

**All medium-bearing parts are made of brass.**

**All connections 3/4" female.**

**With pre-assembled steel wall bracket.**

**Full port ball valve in return pipe**  
and connection for temperature sensor.

**Check valve inside the supply and return ball valve,**  
manual opener, 2 x 200mm WC each, special design for solar systems, avoid any gravity circulation.

**Large ball valve handles** easy grip and visible closing position.

**Air scoop in the supply line**  
for a permanent deaeration of the heat transfer medium.

**Function-optimised design insulation** made of durable elastic EPP;  
**100% insulation of the fittings** – excellent pump ventilation and cooling.

**Solar safety assembly**  
pressure relief valve 6 bar / 87 psi, high-temperature pressure gauge 0-6 bar/0-90 psi, with shut off valve, drain valve for flushing and filling, flat sealing connection for expansion tank.

**Full metal solar thermometer, 0-160 °C / 32-320°F**  
can be pulled off, with immersion sleeve integrated in the ball valve.

**Fully assembled with flat sealing union connections.**

**With three speed solar circulation pump by Wilo**  
without wire.

**Pump can be completely isolated,** no draining necessary during servicing.

### Flowmeter

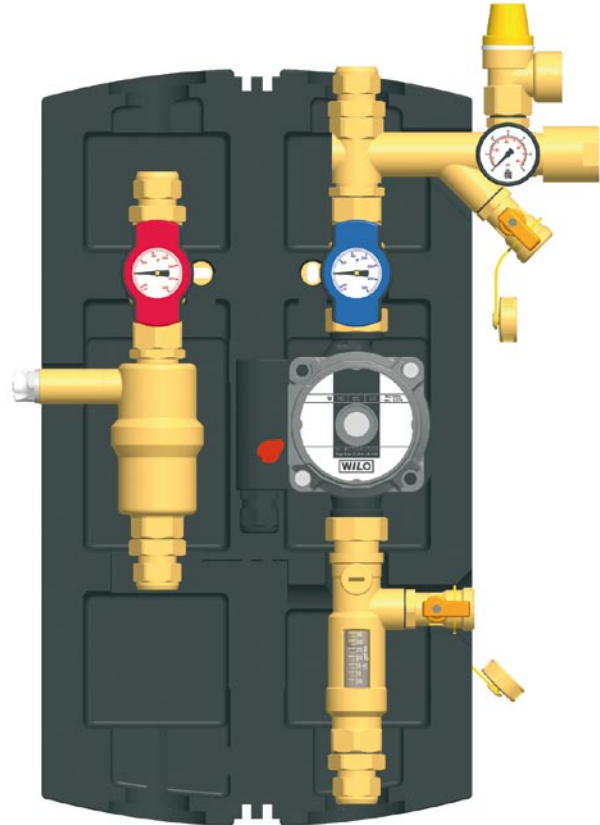
Flow quantity measuring device with adjustable flow quantity gauge and function control device, installed in the (cold) return - up to 130 °C / 266 °F heat resistant – two measurement ranges: 0.5 – 5 l/min or 1 – 13 l/min / 0.5 - 3.5 USgpm.

### Flushing and filling unit integrated

two drain valves (at the flow meter and at the safety assembly) permit filling and flushing the system.

### The unit components enable:

- Medium circulation with specific pump
- Safety against pressure increase
- Accurate flow rate control
- Filling / draining the circuit
- Measuring the supply and return line temperature
- Separating the air contained in the circuit
- Shutting off the circuits and no return
- Thermal insulation



### TECHNICAL DATA FlowCon FA

<b>Dimension</b>		<b>DN 20 - 3/4"</b>
<b>Material</b>	fittings	brass
	gaskets	EPDM / NBR
	insulation	EPP
	check valves	brass
<b>Techn. data</b>	max. pressure	10 bar / 145 psi
	max. temperature	130 °C / 266 °F, temporarily 160 °C / 320 °F
<b>Equipment</b>	check valves	2 x 200 mm WC = <b>400 mm WC</b>
	flowmeter range	1 - 13 l/min or 0.5 - 3.5 USgpm
	pressure relief valve	6 bar / 87 psi, for thermal solar systems
	pressure gauge	0 - 6 bar / 0-90 psi, resistant to high temperatures
	thermometer	0 - 160 °C / 32 - 320 °F, full metal
<b>Dimensions</b>	connections	3/4" female
	pipe-center distance	125 mm / 4 15/16"
	width of insulation	300 mm / 11 7/8"
	height of insulation	480 mm / 18 7/8"

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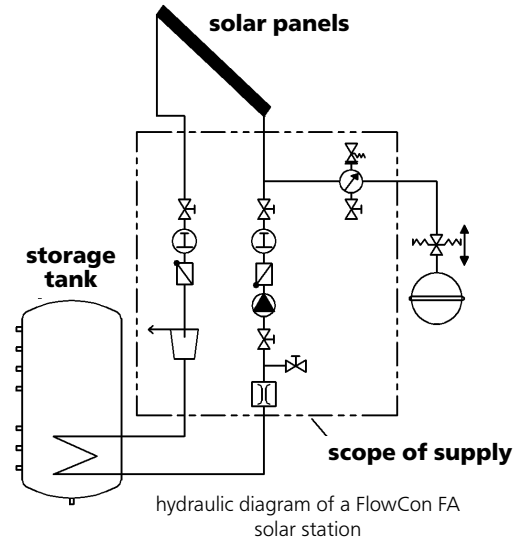
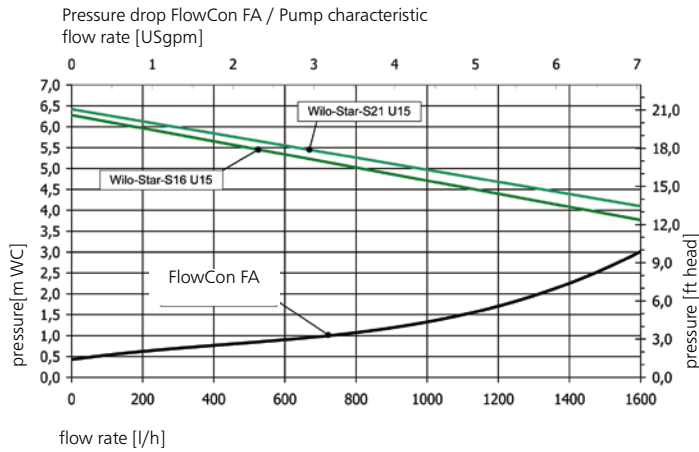



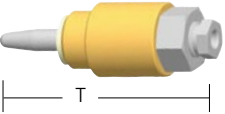
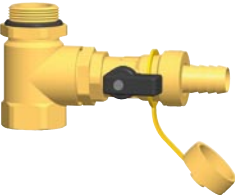


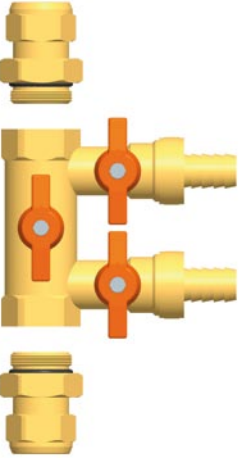




Illustration	Options	Pumps	Item #
	<b>FlowCon FA metric</b> flowmeter 1-13 l/min, Air scoop, temperature gauge in °C	<b>Wilo Star S 16 U-15-130</b> 1/2" copper connection	<b>60842NA01</b>
		<b>Wilo Star S 21 U-15-130</b> 1/2" copper connection	<b>60842NA02</b>
	<b>FlowCon FA imperial</b> flowmeter 0.5-3.5 USgpm, Air scoop, temperature gauge in °F	<b>Wilo Star S 16 U-15-130</b> 1/2" copper connection	<b>60842US01</b>
		<b>Wilo Star S 21 U-15-130</b> 1/2" copper connection	<b>60842US02</b>
	<b>Accessories</b>  <b>Connecting set 3/4" for expansion tank</b> Stainless steel corrugated hose 3/4" female - female x 2", Wall bracket with fastening material, solar tank connecting coupling 3/4"		<b>437 509</b>
	As before, but tank connecting coupling with integrated cap valve 3/4"		<b>437 510</b>
	<b>Compression-ring couplings for copper pipe</b> For the connection of 3/4" solar stations – DN 20, self-sealing with o-ring, additionally with support sleeve, <b>also appropriate for soft copper pipes!</b> <b>Applicable until 150 °C!</b>		
	<b>3/4" male x 1/2" copper pipe</b>		<b>561 212</b>
	<b>Soldering inserts 3/4" male for copper pipe</b> 3/4" to ø x 1/2" copper pipe		<b>206 212</b>
	3/4" to ø x 3/4" copper pipe		<b>206 234</b>
	<b>Adaptor nipple</b> 3/4" male x outlet 3/4" NPT male - flat sealing		<b>548 310 NA</b>

## Solar station FlowCon - assembly accessories

Illustration	Description	Item #
	<p><b>Connecting set 3/4" for expansion tank</b>            On the solar station system "FlowCon" to connect the safety set 3/4"; for max. tank diameter of 440 mm.</p>	
	<p><b>Stainless steel corrugated hose</b> 3/4" female - female x 500 mm,            Wall bracket with fastening material, solar tank connecting coupling 3/4"</p>	<p><b>437 509</b></p>
	<p>As before, but tank connecting coupling with integrated cap valve 3/4"</p>	<p><b>437 510</b></p>
	<p><b>Service unit for solar systems</b>            With solar fluid fine filter (250 µ)            As protection of the pump, the flow check valve(s) and the flow meter against dirt particles (e. g. solder residues and scales particles). For assembly inside the solar supply line, above the ball valve. Completely closable for servicing so that only a small amount of solar fluid has to be refilled. Connection to the solar station with self sealing screw connection 3/4", outlet 3/4" female.</p>	
<p><b>Maintenance unit for solar systems</b></p>	<p><b>56701</b></p>	
	<p><b>Connecting piece for sensor well</b>            For thermowell with 1/2" male, up to 60 mm length            1" union nut with gasket, 3/4" female, bushing 1/2"</p>	
<p><b>Connecting piece for sensor well</b></p>	<p><b>5660</b></p>	
	<p><b>Thermowells</b>            For the assembly of the temperature sensors inside the storage, collector etc.</p>	
<p>self-sealing with o-ring, brass blank, for sensor Ø 5.5 mm, depth = 30 mm</p>	<p><b>566 001</b></p>	
<p>standard, chromed brass, for sensor Ø 6 mm, depth = 60 mm</p>	<p><b>566 002</b></p>	
<p>standard, chromed brass, for sensor Ø 6 mm, depth = 100 mm</p>	<p><b>566 003</b></p>	
<p>standard, chromed brass, for sensor Ø 6 mm, depth = 150 mm</p>	<p><b>566 004</b></p>	
	<p><b>Flush and drain kit</b>            t-piece with counter nut, self-sealing with drain valve, for expanding the solar system with a flush and drain connection, assembly at the lowest point (drain unit).</p>	
<p><b>1 piece DN 20 - 3/4"</b></p>	<p><b>31611NA</b></p>	

## Solar station FlowCon - assembly accessories

Illustration	Description	Item #
	<p><b>Manually operated filling and injection pump</b>  <b>Male = 1/2", 15 mm hose connection</b>            Attainable pressure until approx. 4 bar, length: 175 mm</p>	
<p><b>Manually operated filling and injection pump</b></p>		<p><b>7061</b></p>
	<p><b>Manually operated filling and injection pump</b>  <b>Male = 1/2", 15 mm hose connection</b>  <b>Additional drain valve</b>            Attainable pressure until approx. 4 bar, length: 225 mm</p>	
<p><b>Manually operated filling and injection pump</b></p>		<p><b>7062</b></p>
	<p><b>Flush and fill kit DN 20</b>  <b>Consisting of:</b>            Brass ball valve 3/4" female, with red wing handle,            with 2 drain valves with hose clip 15 mm</p> <p><b>Additionally with:</b>            2 compression fittings with support sleeves, preassembled</p>	
<p><b>DN 15 for 1/2" mm copper pipe</b></p>		<p><b>565 151 NA</b></p>
<p><b>DN 22 for 3/4" mm copper pipe</b></p>		<p><b>565 221 NA</b></p>
	<p><b>Compression adaptors for copper pipe</b>  <b>For the connection of 3/4" solar stations – DN 20, self-sealing with o-ring, additionally with support sleeve, also appropriate for soft copper pipes!</b>  <b>Applicable until 150 °C!</b></p>	
<p><b>3/4" male x 15 mm</b></p>		<p><b>561 215</b></p>
<p><b>3/4" male x 22 mm</b></p>		<p><b>561 222</b></p>
	<p><b>Soldering inserts 3/4" male for copper pipe</b>            For the connection of solar stations 3/4" – DN 20</p>	
<p><b>3/4" to 15 mm: soldering inserts 3/4" x 1/2"</b></p>		<p><b>206 212</b></p>
<p><b>3/4" to 22 mm: soldering inserts 3/4" x 3/4"</b></p>		<p><b>206 234</b></p>