



Solar station FlowCon FA Evolution II

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 controller (not included in delivery). This unit contains the functional and safety devices for optimum circuit control.

Features:

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 (7.9" head) each, special design for solar thermal systems, avoid any gravity circulation.

Large ball valve handles easy grip and visible closing position.

Airstop in the supply line
for a permanent deaeration of the heat transfer medium.

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

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

Full metal solar temperature gauges, 32-320°F/0-160 °C
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 266 °F/130 °C heat resistant – two measurement ranges: 0.8-6 USgpm or 3-22 l/min.

Flush and fill 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 anti thermosyphoning
- Thermal insulation



TECHNICAL DATA FlowCon FA

Dimension	3/4" - DN 20	
Material	fittings	brass
	gaskets	EPDM/NBR
	insulation	EPP
Techn. data	check valves	brass
	max. pressure	145 psi/10 bar
	max. temperature	266 °F/130 °C temporarily 320 °F/160 °C
Equipment	check valves	2 x 200 mm WC = 400 mm WC
	flowmeter range	0.8-6 USgpm or 3-22 l/min
	pressure relief valve	87 psi/6 bar, for solar thermal systems
	pressure gauge	0-87 psi/0-6 bar, resistant to high temperatures
Dimensions	temperature gauges	32-320 °F/0-160 °C, full metal
	connections	3/4" compression fitting
	pipe-center distance	100 mm/3.94"
	width of insulation	334 mm/13.15"
	height of insulation	383 mm/15"



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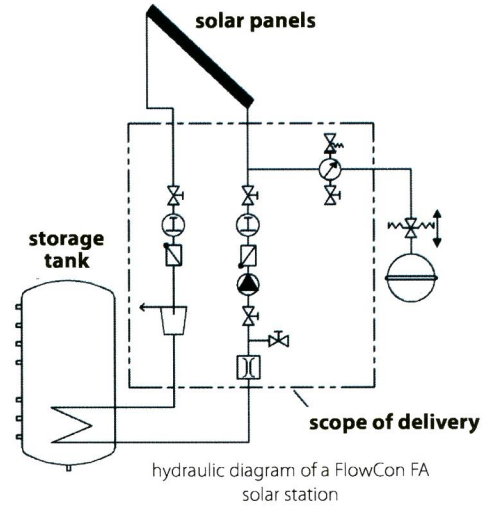
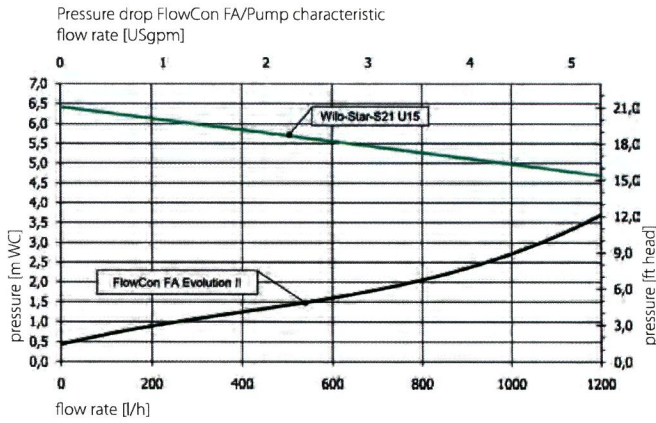


Illustration	Options	Pumps	Item #
	FlowCon FA Evolution II metric flowmeter 3-22 l/min, airstop, temperature gauges in °C	Wilo Star S 21 U-15-130 ½" copper connection	7655210W57NA
	FlowCon FA Evolution II imperial flowmeter 0.8-6 USgpm, airstop, temperature gauges in °F	Wilo Star S 21 U-15-130 ½" copper connection	7655210W57US
Illustration	Accessories		Item #
	Connecting set ¾" for expansion tank Stainless steel corrugated hose ¾" female - female x 2", wall bracket with fastening material, solar tank connecting coupling ¾", with BSP coupling		437 509
	As before, but tank connecting coupling with integrated cap valve ¾"		437 510
	Stainless steel corrugated hose ¾" female - female x 2", wall bracket with fastening material, solar tank connecting coupling ¾", with NPT coupling		437 509 NA
	Compression-ring couplings for copper pipe For the connection of ¾" solar stations – DN 20 , self-sealing with o-ring, additionally with support sleeve, also appropriate for soft copper pipes! Applicable until 302 °F/150 °C!		
	¾" male x ½" copper pipe		561 212
	¾" male x ¾" copper pipe		561 222
	Adaptor nipple ¾" male x outlet ¾" NPT male - flat sealing		548 310 NA