



PAW NA Limited Partnership · 45 Davis Street · Webster, MA 01570 · USA
 phone: +1-508-943-4240 · fax: +1-508-943-4141 · support@paw.eu · www.paw.eu

Solar station FlowCon MAX 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 1" female, flat-sealing, for the direct assembly of corrugated stainless steel pipes and solder fittings, prepared for assembly of ferrule compression fittings for copper pipe (with PAW ferrule compression fittings)

Steel wall bracket for the easiest assembly

simply attach the solar station

Full port ball valves

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 handling and visible closing position

Full metal solar temperature gauges, 32-320 °F/0-160 °C dual scale

can be pulled off, with immersion sleeve integrated in the ball valve

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 valve, drain valve for flushing and filling, flat sealing connection for expansion tank

Solar circulation 3-speed pump by Wilo

Pump can be completely isolated, no draining necessary during servicing

Flushing and filling unit integrated

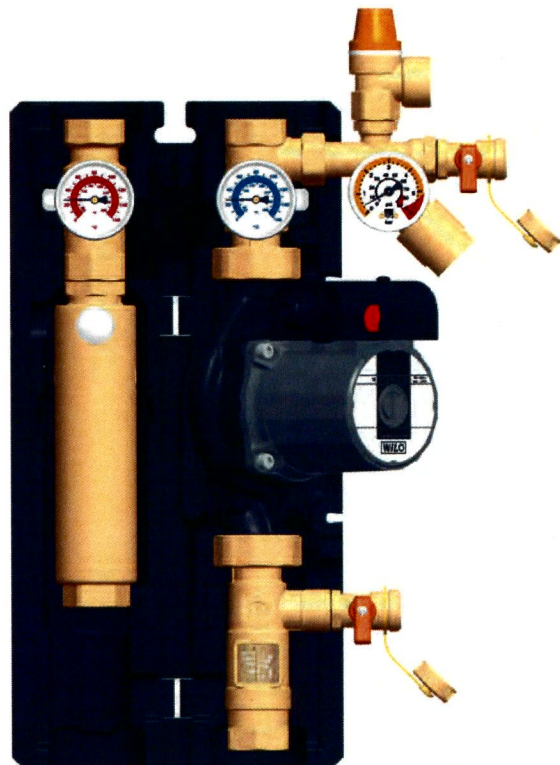
below the pump, for a clear and simple handling, permits filling and flushing the system.

FlowCheck

Flow quantity measuring device with function control, integrated in the (cold) return - up to 266 °F/130 °C heat resistant – measurement range: 1-10 USgpm or 5-40 l/min.

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



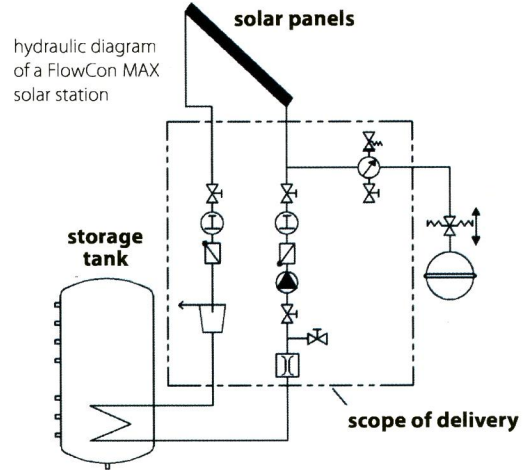
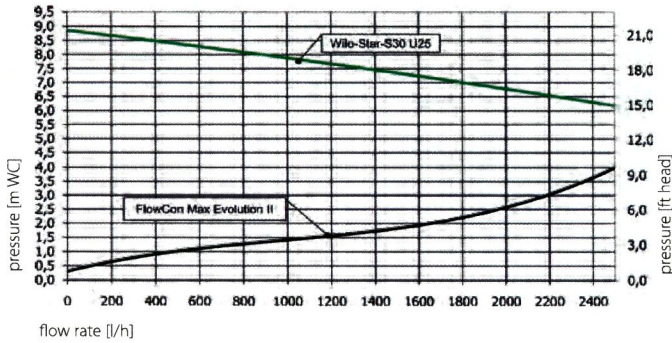
TECHNICAL DATA FlowCon MAX FA Evolution II

Dimension	DN 25 - 1"	
Material	fittings	brass
	gaskets	Klingersil/EPDM
	insulation	EPP
	check valves	brass
Techn. data	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
	flow meter range	1-10 USgpm or 5-40 l/min
	pressure relief valve	87 psi/6 bar, solar thermal
	pressure gauge	0-87 psi/0-6 bar, resistant to high temperatures
	temperature gauges	32-320 °F/0-160 °C, full metal
Dimensions	connections	1" female
	pipe-center distance	100 mm/3.94"
	width of insulation	308 mm/12.13"
	height of insulation	480 mm/18.66"



Solar station FlowCon MAX FA Evolution II

Pressure drop FlowCon MAX FA/pump characteristic flow rate [USgpm]



FlowCon MAX FA Evolution II			
FlowCon MAX FA Evolution II	Operating flow rate in solar loop		Performance
	0.5 G/ft ² collector surface x h	20 l/m ² collector surface x h	35 kW
0.74 G/ft ² collector surface x h	40 l/m ² collector surface x h	17,5 kW	59.71 kBTU/h

Illustration	Options	Pumps	Item #
	Flushing and filling unit, airstop, FlowCheck 5-40 l/min	Wilo Star S 30 U-25-180	607052WS8NA
	Flushing and filling unit, airstop, FlowCheck 1-10 USgpm	Wilo Star S 30 U-25-180	607052WS8US
	Set of ferrule compression fittings only matching for FlowCon MAX, 2 pieces as set, made of brass, with support sleeves for copper pipe ø 3/4"/22 mm, with 1"- nut		562927
	Connecting set 3/4" for expansion tank for connecting the safety set 3/4", stainless steel corrugated hose 3/4" female - female x 19.7"/500 mm, wall brackets with fixation material, for max. Ø of tank = 17.32"/440 mm		
	connection set with tank connection coupling 3/4", with BSP coupling		437 509
	as before, but tank connection coupling with integrated cap valve 3/4"		437 510
	connection set with tank connection coupling, with NPT coupling		437 509 NA