



Pump stations

Our motto:

independence through renewable local energy sources and intelligent heating solutions.

We are the distributor of clean non-polluting wood stoves/wood boilers and solar or wind generated power solutions for all your energy needs placed in Nova Scotia for customers all over Canada.

In our product range you will find wood stoves – wood boilers, solar space heating systems, solar domestic hot water systems, individual solutions and requirements, storage tanks, pump stations, controlling systems, corrugated insulated pipes and pipe insulation as well as power producing PV Systems and wind turbines.

We are a system provider for renewable heating and power solutions.

Solar pump modules and heat transfer systems are designed for use in closed loop solar thermal systems working with glycol.

Integrated in the pump module are a lot of functions which make the installation easier, prevent installation mistakes and improve the performance of your solar thermal plant.

Features of every unit are

- all water-carrying parts are made of brass

- all sealing components are high temperature resistant up to 266°F/130°C (320°F/160°C - short term)

- Flowmeters are adjustable to set the correct flow rate. High quality bora silicate glass.

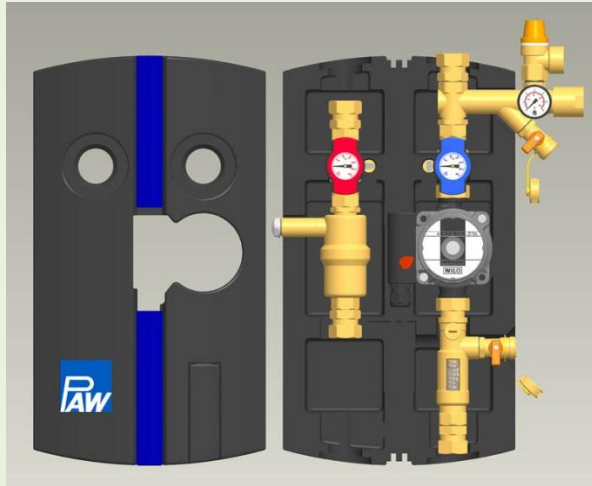
- Check valves are integrated in every line in the solar loop. They are made of brass for high pressure and temperature resistance.

- Airstops in the supply line help to deaerate your system easily

- All pumps used in PAW solar pump modules are UL-certified and equipped with 3-speed motors.

FlowCon FA EVOLUTION II

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 is activated by the signal from the differential temperature regulator. In addition, this unit contains the functional and safety devices for optimum circuit control.



Technical data

Dimensions		DN 20 – ¾ ”
Materials	Fittings	Brass
	Gaskets	EPDM / NBR
	Insulations	EPP
	Check valves	Brass
Technical data	Max. pressure	10 bar / 145 psi
	Max. temperature	130°C / 266°F
		Temporarily 160°C / 320°F
Equipment	Check valves	2*200 mm WC= 400 mm WC
	Flowmeter range	3 - 22 l/min or 0.8-6 USGpm
	Pressure relief valve	6 bar / 87 psi
	Pressure gauge	0-6 bar / 0-87 psi
Dimensions	Connections	¾ ” female
	Pipe-center distance	100 mm / 3.94 ”
	Width of insulation	334 mm / 13.15 ”
	Height of insulation	383 mm / 15 ”

Completely preassembled; precisely integrated; pressure tested; serial number; 3-speed-pump

FlowCon MAX FA EVOLUTION II

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 is activated by the signal from the differential temperature regulator. In addition, this unit contains the functional and safety devices for optimum circuit control.



Technical data

Dimensions		DN 25 – 1 "
Materials	Fittings	Brass
	Gaskets	EPDM / Klingersil
	Insulations	EPP
	Check valves	Brass
Technical data	Max. pressure	10 bar / 145 psi
	Max. temperature	130°C / 266°F
		Temporarily 160°C / 320°F
Equipment	Check valves	2*200 mm WC= 400 mm WC
	Flowmeter range	5 - 40 l/min or 1-10 USGpm
	Pressure relief valve	6 bar / 87 psi
	Pressure gauge	0-6 bar / 0-90 psi
Dimensions	Connections	1 " female
	Pipe-center distance	100 mm / 3.97 "
	Width of insulation	308 mm / 12.13 "
	Height of insulation	480 mm / 18.66 "

Completely preassembled; precisely integrated; pressure tested; serial number; 3-speed-pump

K33

Low temperature zone module K33 with thermostatic 3-way mixing valve and adjustable bypass 0-50%.



For low temperature heating zones controlled by 3-way thermostatic mixing.

Technical data

Dimensions		DN 25 – 1 "
Materials	Fittings	Brass
	Gaskets	EPDM / NBR
	Insulations	EPP
Technical data	Max. pressure	8 bar / 116 psi
	Max. temperature	110°C / 230°F
	CV value	4.4
Dimensions	Zone module inlet	1½ " female
	Zone module outlet	1" NPT F
	Center distance	125 mm / 4.21/22 "
	Length	382 mm / 15.1/32 "
	Width insulation	250 mm / 9.27/32 "
	Height insulation	462 mm / 18.3/16 "
Recommended application	at $\Delta T = 10 \text{ K} / 18^\circ\text{F}$ at 860 l/h / 3.8 USGpm	Up to 10 kW/34 MBH

Thermostat – adjustable in the range of 20-60°C / 68-140°F

Completely preassembled; precisely integrated; pressure tested; serial number; 3-speed-pump

K36E (Walltherm - wood stove/wood boiler)

K36E zone module with integrated temperature/flow bypass valve



With thermal control valve to compensate temperature differences in solid fuel boilers as well as in wood firing and stove heating systems.

Technical data

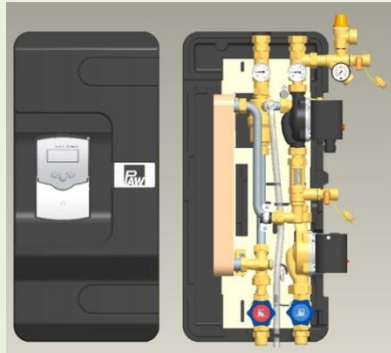
Dimensions		DN 25 – 1 "
Operating temperature		50 / 55 / 60 °C 122 / 131 / 140 °F
Materials	Fittings	Brass
	Gaskets	EPDM / NBR
	Insulations	EPP
Technical data	Max. pressure	8 bar / 116 psi
	Max. temperature	110°C / 230°F
	CV value	5.5
Dimensions	Zone module inlet	1½ " female
	Zone module outlet	1" NPT F
	Center distance	125 mm / 4.21/22 "
	Length	382 mm / 15.1/32 "
	Width insulation	250 mm / 9.27/32 "
	Height insulation	462 mm / 18.3/16 "
Recommended application	at $\Delta T = 20 \text{ K} / 36^\circ\text{F}$ at 1725 l/h / 7.6 USGpm	Up to 40 kW / 136.5 MBH

Completely preassembled; precisely integrated; pressure tested; serial number; 3-speed-pump

Power Strength & Energy Solutions Ltd.

Solex HF

The compact and completely preassembled solar hot water heating system Solex for high flow systems is completely insulated. It is equipped with a generously dimensioned stainless steel flat plate heat exchanger, prewired and preset controller. All those advantages allow for a simple and quick installation as well as secure commissioning



Technical data

Dimensions		DN 20 – ¾ "	
Materials	Fittings	Brass	
	Gaskets	EPDM / Klingersil	
	Insulations	EPP	
	Check valves	Brass	
	Heat exchanger	Plates + sockets: 1.4400 solder: 99,99 % copper	
Technical data	Max. pressure	10 bar / 145 psi	
	Max. temperature	130°C / 266°F	
		Temporarily 160°C / 320°F	
Equipment	Check valves	400 mm WC primary 200 mm WC secondary	
	Flowmeter	0.5 -3.5 USGpm	
	Pressure relief valve	6 bar / 87 psi	
	Manometer	0-6 bar / 0-90 psi	
	Temperature gauges	32-320°F	
Dimensions	Connections	¾ " female	
	Overall Width	560 mm / 22.1/32 "	
	Overall Height	880 mm / 34.21/32 "	
For systems in high flow mode			
	Operational mode	Surface solar panels	Performance
Heat exchanger with 20 plates	20 l/(m ² *h)	30 m ²	15 kW
	30 l/(m ² *h)	20 m ²	10 Kw
Heat exchanger with 30 plates	20 l/(m ² *h)	50 m ²	25 kW
	30 l/(m ² *h)	30 m ²	15 kW