Juniper PW XL

Polywarm® heat pump calorifier

MODELS

200

300

400

500

800

1000

CAPACITY (litres)

200-1000

modutherm

Juniper PW XL

The Juniper XL heat pump calorifier is available in 6 models, with capacities ranging from 200-1000 litres. Each calorifier has a Polywarm® coating with cathode protection.

5yr Tank Warranty | ErP Part L Compliant | WRAS Approved | POLY WARM ® | Energy Efficiency Class B&C

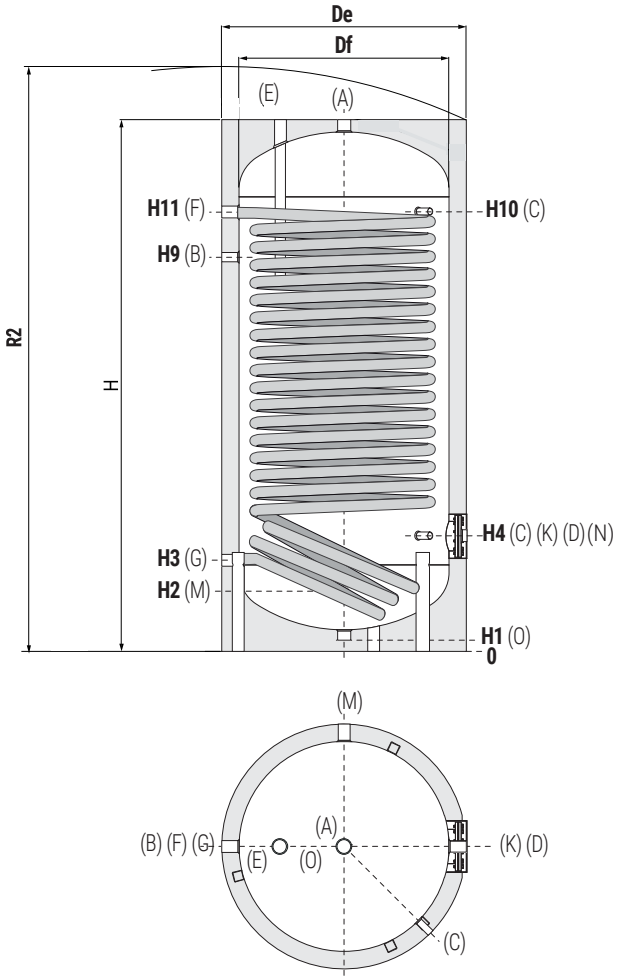
key features

- **200-1000 litre capacity**
- **Unvented kits**
- **Cathode protection**
- **Optional electrical element**

warranty

- 5 year warranty* on tank body
- 2 year warranty* on all other components

*subject to Terms & Conditions



- (A) domestic hot water outlet / T&P connection
- (B) recirculation
- (C) connection for thermometer (½" F)
- (D) connection for electric immersion heater
- (E) connection for magnesium anode (1¼" F)
- (F) primary circuit inlet (1¼" F)
- (G) primary circuit outlet (1¼" F)
- (K) blind flange for inspection
- (M) domestic cold water circuit inlet
- (N) connection for instrumentation (½" F)
- (O) drain (1¼" F) for models > 800 litre (¾" F)

dimensions

All dimensions are distances from the floor, except for R2 which is a lateral dimension. All models have hard foam insulation.

MODEL	Capacity (litres)	De	H	R2	H1	H2	H3	H4	H9	H10	H11	K
							(mm)					
200	189	550	1440	1560	71	220	285	325	1055	1190	1190	Øi20Øe180
300	291	650	1500	1650	71	246	321	381	1091	1211	1211	Øi20Øe180
400	422	700	1766	1910	71	261	321	396	1316	1471	1471	Øi20Øe180
500	498	750	1800	1960	71	271	346	411	1326	1486	1486	Øi20Øe180
800	789	900	2180	2370	107	344	424	489	1604	1794	1814	Øi70Øe240
1000	1038	1000	2230	2460	95	365	445	505	1590	1825	1536	Øi70Øe240

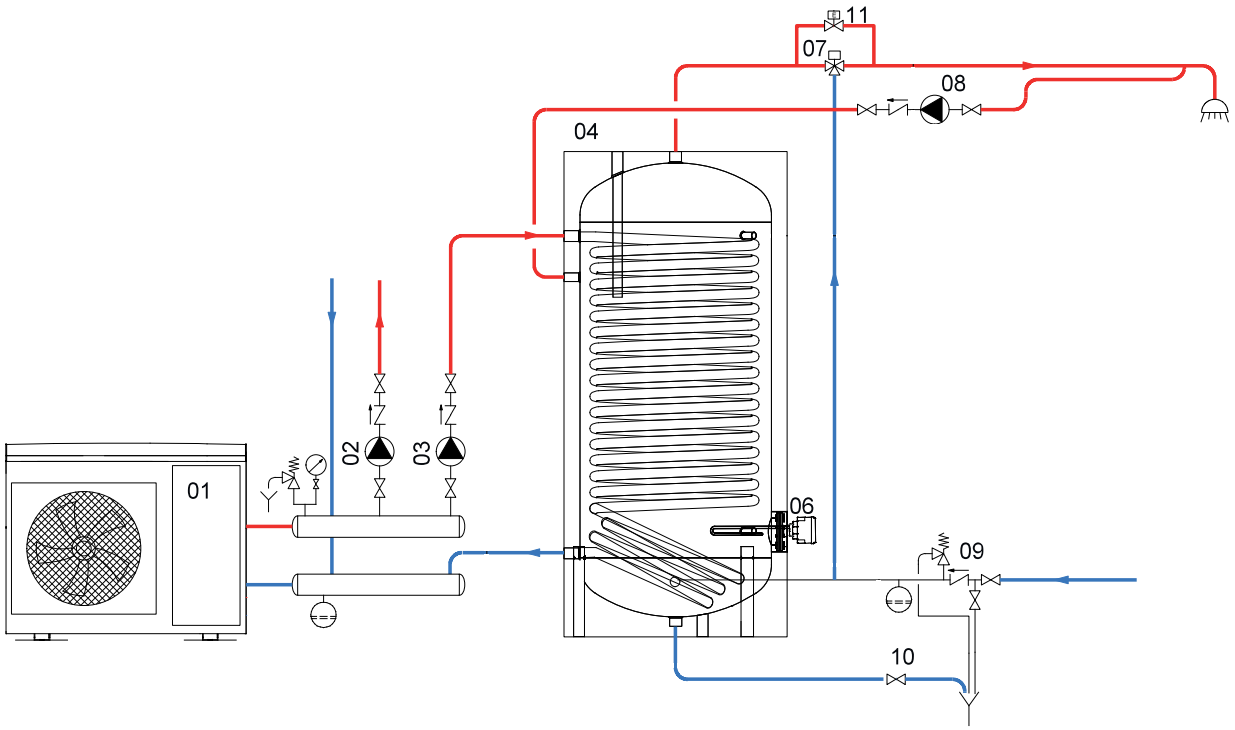
MODEL	M	B	A	D
	F connections			
200	¾"	¾"	1"¼	1½"
300	1"	1"	1"¼	1½"
400	1"	1"	1"¼	1½"
500	1"	1"	1"¼	1½"
800	1"	1"	1"¼	2"
1000	1"¼	1"	1½"	2"

PERFORMANCE DATA & SCHEMATIC

		MODEL					
		200	300	400	500	800	1000
nominal storage capacity	litres	189	291	422	498	789	1038
energy class		B	B	C	C	B	B
coil tube Ø	mm	32	32	32	32	32	32
coil surface area	m²	2	3.4	4.4	5.4	6	6.5
coil max operating temperature/pressure	°C/bar	110/12	110/12	110/12	110/12	110/12	110/12
maximum working temperature/pressure, tank (secondary)	°C/bar	90/10	90/10	90/10	90/10	90/10	90/10
weight empty/full	kg	65/254	98/389	150/572	165/663	226/1015	260/1298
heat up time 45°CΔT 3Kw immersion only	hr	2.5	3.7	5.3	6.3	8.3	10.6
immersion heater option power/phase	kW/ph	3/1	3/1	3/1	3/1	3/1	3/1
standby loss at 65°C	kWh/24hr	1.416	1.656	2.352	2.448	2.304	2.544

		PRIMARY FLOW RATE											
		0.694 l/s-2.5(m³/h)	0.347 l/s-1.25(m³/h)	0.833 l/s-3(m³/h)	0.417 l/s-1.5(m³/h)	0.972 l/s-3.5(m³/h)	0.486 l/s-1.75(m³/h)	0.972 l/s-3.5(m³/h)	0.486 l/s-1.75(m³/h)	1.39 l/s-5(m³/h)	0.694 l/s-2.5(m³/h)	2.22 l/s-8(m³/h)	1.11 l/s-4(m³/h)
continuous DHW output @35°CΔT (10/45°C) with primary 55°C	litres/hour	522	468	751	664	1033	915	1198	1060	1571	1412	1780	1642
10 minute peak DHW draw off @35°CΔT (10/45°C) with primary 55°C and tank warmed @ 50°C	litres	221	221	340	339	492	491	581	579	918	916	1203	1201
recovery time DHW @40°CΔT (10/50°C) full tank without draw off with primary 55°C	minutes	40	49	44	55	47	59	49	62	59	72	65	76
nominal heat transferred with primary 55°C and DHW @35°CΔT (10/45°C)	kW	21	19	31	27	42	37	46	42	64	57	72	66
primary hydraulic resistance	kPa	10.6	3.1	8.3	2.4	12.6	3.7	12.6	3.7	29.8	8.7	73.6	2.2

SCHEMATIC



01	Alira (Heat Pump)	05	Easy Control electronic display/ thermostat	09	Hydraulic safety group
02	Heating system circulation group	06	Electric immersion heater (optional)	10	Blowdown valve
03	D.H.W. circulation group	07	Thermostatic mixing valve	11	By-pass solenoid valve
04	Juniper PW XL	08	D.H.W. recirculation group		

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*A member of the **Modular Heating Group**.*

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