



Juniper[®] PW XL

Polywarm[®] heat pump calorifier



MODELS

6

CAPACITY (litres)

200 - 1000

Juniper® PW XL

The Juniper PW 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.



5

5 Year Tank Warranty*

2

2 Year Warranty*

WRAS

WRAS Approved

ErP

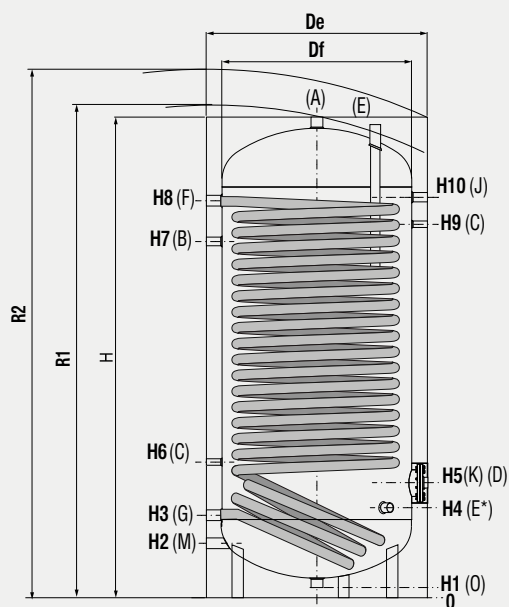
ErP Part L Compliant

- 200-1000 litre capacity
- 6 calorifier models
- Unvented kits
- Cathode protection
- Optional electrical element (3kW single phase)
- Energy Efficiency Class B & C

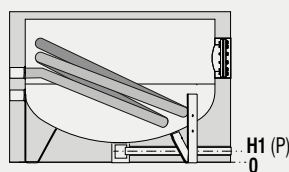
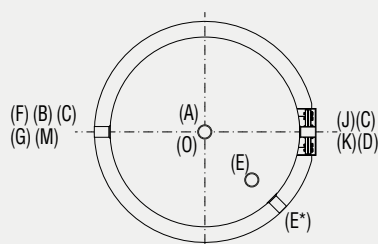
Application	Heat pump calorifier
Material	Mild steel Polywarm® coated (Attestation ACS-SSICA-DVGW-W270-UBA-WRAS)
Insulation	Hard foam - High thermal insulation with ecological polyurethane hard foam. Soft foam - NOFIRE® polyester fleece 100% made of recyclable material, with high thermal insulation. Fire resistance class B-s2d0 according to EN 13501.
Cathode Protection	Magnesium anode
Gasket - Flange Plate	Silicone gaskets suitable for alimentary use for max temperature up to 200°C. Mild steel inspection flange plate with Polywarm®
Drain	External through drain connection

Dimensions

All dimensions are distances from the floor, except for R2 which is a lateral dimension.



- 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
- O Drain (1¼" F)
- P Drain



800 - 1000L

Model	Volume (litres)	Df	H	De	R2	H1	H2	H3	H5 (mm)	H6	H7	H8	H9	H10	K
200	189	550	1440	550	1560	71	215	285	325	405	1055	1190	1190	-	Øi20Øe180
300	291	650	1500	650	1650	71	241	321	381	431	1091	1211	1211	-	Øi20Øe180
400	422	700	1766	700	1930	71	256	336	396	446	1316	1471	1471	-	Øi20Øe180
500	497	750	1800	750	1960	71	266	346	411	466	1326	1486	1486	-	Øi20Øe180

Model	Weight (kg)	M	B	A	D
F Connections					
200	96	¾"	¾"	1¼"	1½"
300	130	1"	1"	1¼"	1½"
400	154	1"	1"	1¼"	1½"
500	174	1"	1"	1¼"	1½"

Model	Volume (litres)	Df	H	De	R1	R2	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	K
800	789	750	2190	950	2330	2400	101	338	418	-	483	538	1548	1808	1808	-	Øi70Øe240
1000	1038	850	2250	1050	2420	2500	89	359	439	-	499	559	1584	1829	1829	-	Øi70Øe240

Model	Weight (kg)	M	B	A	D	P
F Connections						
800	226	1"	1"	1¼"	2"	¾"
1000	255	1¼"	1"	1½"	2"	¾"

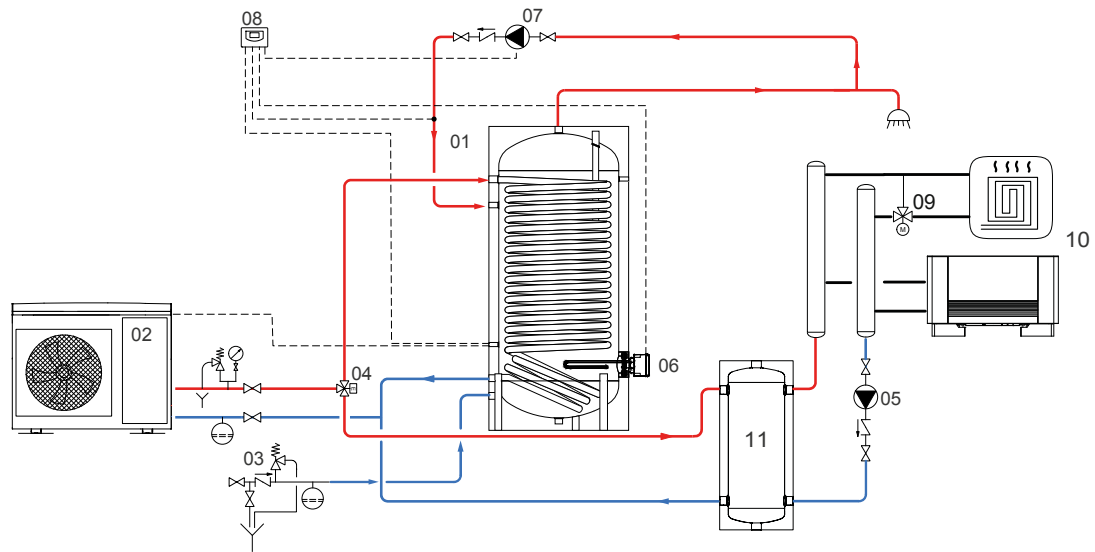
HARD FOAM INSULATION

SOFT FOAM INSULATION

Performance data

		200		300		400		500		800		1000	
Nominal storage capacity	litres	189		291		422		498		789		1038	
Energy class		B				C							
Coil tube Ø	mm	32											
Coil surface area	m²	2.0		3.4		4.4		5.4		6.0		6.5	
Coil max operating temperature/pressure	°C / bar	110 / 12											
Tank (secondary) maximum working temperature/pressure	°C / bar	90 / 10										90 / 08	
Weight empty/full	kg	65 / 254		98 / 389		150 / 572		165 / 663		226 / 1015		255 / 1298	
Heat up time from 10° to 45°C ΔT (3kW immersion only)	minutes	142		210		316		370		598		783	
Optional immersion heater (power/phase)	kW / ph	3 / 1											
Standby loss at 65°C	kWh/24h	1.416		1.656		2.352		2.448		2.304		2.544	
Primary flow rate	l/s (m³/hr)	0.694 (2.5)	0.347 (1.25)	0.833 (3.0)	0.417 (1.5)	0.972 (3.5)	0.486 (1.75)	0.972 (3.5)	0.486 (1.75)	1.39 (5.0)	0.694 (2.5)	2.220 (8.0)	1.110 (4.0)
Continuous DHW output at 35°C ΔT (10/45°C) with primary 55°C	l/h	522	468	751	664	1033	915	1198	1060	1571	1412	1780	1642
10 minute peak DHW draw off at 35°C ΔT (10/45°C) with primary 55°C and tank warmed at 50°C	litres	303	294	458	443	655	635	769	746	1165	1138	1482	1459
Recovery time DHW at 40°C ΔT (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 at 35°C ΔT (10/45°C)	kW	21	19	31	27	42	37	46	42	64	57	72	66
Primary hydraulic resistance	kPa	8.5	2.5	7.4	2.3	12.6	4.0	14.6	4.6	34.3	10.2	83.7	25.1

Schematic



- 01** Juniper PW XL
- 02** Heat pump
- 03** Hydraulic safety group
- 04** Motorised three-way valve

- 05** Pump
- 06** Electric immersion heater (optional)
- 07** DHW recirculation group

- 08** Thermostat
- 09** Thermostatic mixing valve
- 10** Radiator/fan coils
- 11** Buffer tank

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