Juniper® PW

Polywarm® coated calorifiers

Twin Coil

MODELS

4

CAPACITY (litres)

500 - 1500

Juniper® PW

Twin Coil

The Juniper PW (Polywarm®) Twin Coil calorifier has a capacity range of 500-1500 litres.

Made to Order
Available in 5-6 weeks

Soft fleece insulation shown

Hard foam insulation shown

- **5** 5 Year Tank Warranty*
- **2** 2 Year Warranty*
- **WRAS** WRAS Approved
- **ErP** ErP Part L Compliant

- 4 models
- Twin coil calorifiers range from 500-1500 litres
- Electric immersion elements (optional)
  (1.5-3kW single phase)
  (6-12kW three phase)
- WRAS approved unvented kits
- WRAS approved Polywarm® coating
- Cathode protection
- Control/limit thermostat
- Energy efficiency class C

Models

Model	Volume litres	Energy Efficiency Class	Code	Unvented Kit Code
500	498	C	JNPW500TC	JUV500
800	789	C	JNPW800TC	JUV800
1000	1038	C	JNPW1000TC	JUV1000
1500	1443	C	JNPW1500TC	JUV1500

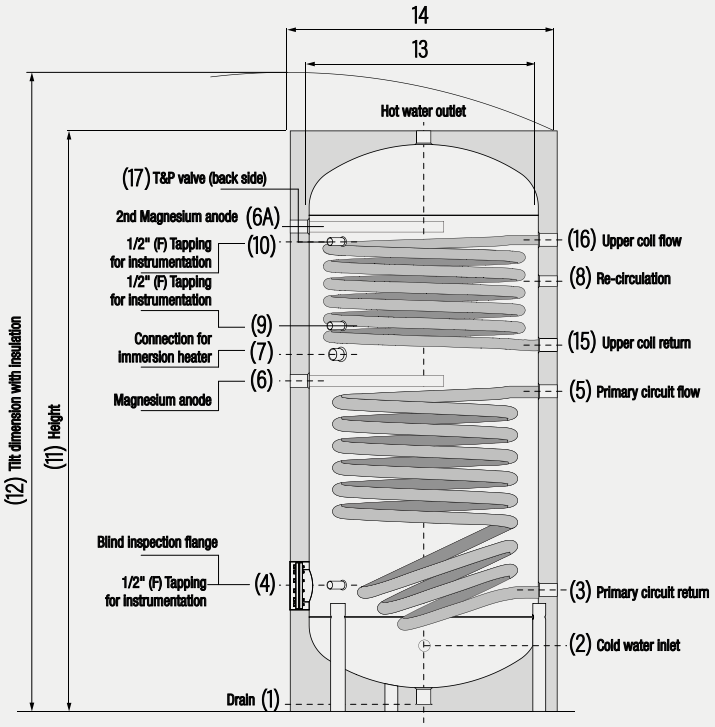
The 500 litre unit of all models are supplied with a rigid hard foam insulation.
All other capacities are supplied with a soft fleece insulation.

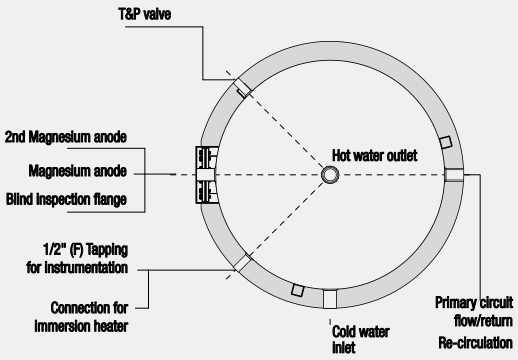
**Subject to Terms & Conditions*

Dimensions

TWIN COIL

All dimensions are distances from the floor, except for 13 & 14 which are lateral dimensions.





Model	1	2	3	4	5	6	6A	7	8	9	10	11	12	13	14	15	16	17
	mm																	
500	71	271	346	411	1036	1076	-	1144	1331	1296	1476	1786	1945	-	750	1186	1476	1476
800	101	493	428	483	1181	1243	1808	1308	1598	1573	1788	2162	2375	750	970	1362	1770	1788
1000	89	524	439	499	1279	1309	1839	1364	1584	1609	1819	2217	2445	850	1070	1399	1819	1819
1500	109	450	425	575	1403	1450	2065	1515	1825	1735	2065	2440	2730	950	1210	1550	2045	2065

	500	800	1000	1500
Drain	1¼"	¾"		1"
Cold water inlet	1"		1¼"	1½"
Blind inspection flange (internal/external)	øi120/øe180	øi170/øe240	øi170/øe240	øi300/øe380
Connection for immersion heater	1½"	2"		
Primary circuit return/flow	1¼"			
Re-circulation	1"			
T&P valve	1"			
Domestic hot water outlet	1¼"		1½"	2"
Connection for lower magnesium anode	1¼"			
Connection for upper magnesium anode	-	1¼"		

Performance data

TWIN COIL

		500		800		1000		1500	
Nominal storage capacity	litres	498		789		1038		1443	
Energy class		C							
Coil tube Ø	mm	32		42					
Lower coil surface area	m²	1.8		2.7		3.5		3.8	
Upper coil surface area	m²	1.0		1.6		1.8		1.9	
Coil max operating temperature	°C	110							
Coil max operating pressure	bar	12							
Tank (secondary) maximum working temperature	°C	90				90			
Tank (secondary) maximum working pressure	bar	10				8			
Weight (empty/full)	kg	130 / 619		216 / 1005		255 / 1293		344 / 1787	
Heat up time 50°CΔT immersion only	hr	3.6		6.6		1.8		2.8	
Immersion heater option (power/phase)	kW/ph	3 / 1				12 / 3			
Standby loss at 65°C	kWh/24hr	2.4		2.8		3.2		3.9	
Primary flow rate	l/s (m³/hr)	0.972 (3.5)	0.486 (1.75)	1.67 (6)	0.833 (3)	1.67 (6)	0.833 (3)	1.67 (6)	0.833 (3)
Continuous DHW output @ 50°C ΔT (10/60°C) with primary 80°C on lower coil	litres/ hour	696.5	634.6	1009.8	928.5	1291.1	1175.6	1360.2	1235.9
10 minute peak DHW draw off @ 50°C ΔT (10/60°C) with primary 80°C on lower coil and tank warmed @ 60°C	litres	614.1	603.8	927.3	913.8	1253.2	1233.9	1675.4	1654.0
Recovery time DHW @ 50°C ΔT (10/60°C) full tank without draw off with primary 80°C on lower coil	minutes	50.0	58.4	55.0	64.0	56.0	65.0	78.0	92.0
Nominal heat transferred by lower coil with primary 80°C and DHW @ 50°C ΔT (10/60°C)	kW	40.5	36.9	58.0	53.3	74.1	67.4	78.0	70.8
Continuous DHW output @ 50°C ΔT (10/60°C) with primary 80°C on upper coil	litres/ hour	399.0	369.7	572.5	535.8	683.7	636.8	720.3	670.0
10 min peak DHW draw off @ 50°C ΔT (10/60°C) with primary 80°C on upper coil and tank warmed @ 60°C	litres	236.5	231.6	387.6	381.0	446.9	439.1	632.1	623.7
Recovery time DHW @ 50°C ΔT (10/60°C) full tank without draw off with primary 80°C on upper coil	minutes	29.2	32.7	32.0	36.0	37.1	41.7	41.0	46.0
Nominal heat transferred by upper coil with primary 80°C and DHW @ 50°C ΔT (10/60°C)	kW	23.2	21.5	33.0	30.8	39.3	36.6	41.4	38.5
Continuous DHW output @ 50°C ΔT (10/60°C) with primary 80°C on the lower & upper coil	litres/ hour	1095.4	1004.3	1530.9	1393.8	1897.9	1697.6	2028.1	1808.0
10 minute peak DHW draw off @ 50°C ΔT (10/60°C) with primary 80°C on on the lower & upper coil and tank warmed @ 60°C	litres	680.6	665.4	1014.2	989.6	1354.3	1320.9	1781.0	1744.3
Recovery time DHW @ 50°C ΔT (10/60°C) full tank without draw off with primary 80°C on the lower & upper coil	minutes	34.3	41.9	35.7	42.6	40.2	49.2	52.8	65.1
Nominal heat transferred by the lower & upper coil with primary 80°C and DHW @ 50°C ΔT (10/60°C)	kW	63.7	58.4	87.8	79.3	108.8	97.3	116.2	103.6
Lower coil primary hydraulic resistance	kPa	18.6	5.4	11.8	3.5	19.6	5.4	15.8	4.7
Upper coil primary hydraulic resistance	kPa	10.1	2.8	6.9	2.0	8.1	2.4	8.5	2.5
Lower & upper coil primary hydraulic resistance	kPa	28.7	8.2	18.7	5.5	27.7	7.8	24.4	7.2

Performance data

TWIN COIL

Optional immersion heater

Model	Volume of water heated by the electric immersion heater	SINGLE PHASE			THREE PHASE		
		1.5kW	2kW	3kW	6kW	9kW	12kW
		JELEM-01	JELEM-02	ELEM-03	ELEM-06	ELEM-09	ELEM-12
	litres	Heat up time from 10°C to 45°C with immersion heater minutes					
500	174	312	234	156	78	47	-
800	310	665	416	277	139	92	69
1000	390	698	524	349	175	116	57
1500	559	1002	751	501	250	167	125

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