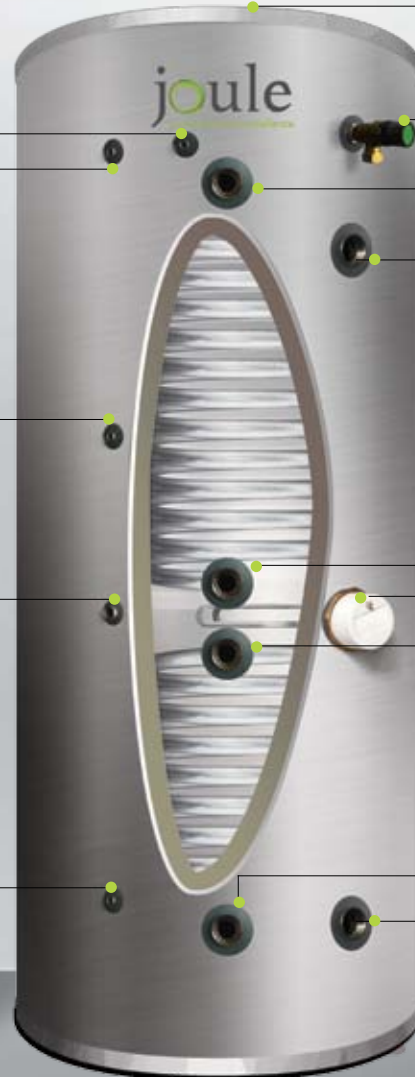


# Cyclone Heat Pump

specifically designed to work with heat pumps and other low temperature heat sources



- 1" Adaptable Hot Water Draw
- 1/2" T&P Relief Valve (fitted)
- 1" Heat Pump Flow
- 3/4" Secondary Return
- 1" Heat Pump Return
- Immersion Heater
- 3/4" Solar Flow
- 3/4" Solar Return
- 1" Adaptable Cold Water Inlet
- Plain Solar Sensor
- Plain Solar Sensor
- Plain Solar Sensor
- Plain Aquastat Pocket
- Plain Solar Sensor

Joule Cyclone Heatpump cylinders have been designed to work with air source, ground source and other types of low temperature heat source appliances. The cylinder is manufactured with coil in coil technology. Coil in coil technology allows for greater surface area coils to be installed in standard sized cylinder units. The inner coil dissipates more heat at lower temperatures improving the efficiency of the overall system. The cylinders can be manufactured with any size coil required. Please call Joule for details of coil sizes of units on the shelf and feel free to ask Joule for a different specification cylinder if that is what you require. Our in house engineers are on hand to offer advice on cylinder specifications for different applications.

## Immersion Heater options

Incoloy immersions come as standard in all Joule Cyclone Cylinders unless otherwise stated. Incoloy immersions are designed for low to medium use in a domestic application. If the water been stored is hard or the usage is high, Joule recommend Titanium Immersions.

## Eco80

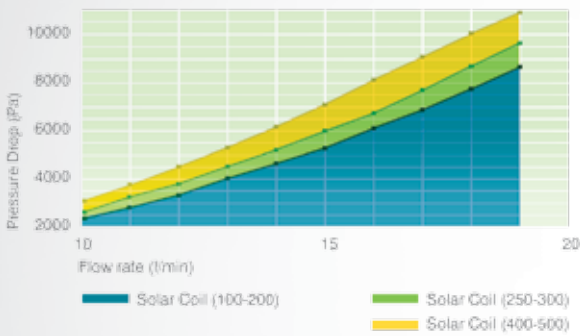
With the requirement for more energy efficient solutions, Joule offer the full Cyclone range with Eco80 specification. The eco 80 range increasea insulation thickness to 80mm nominal.



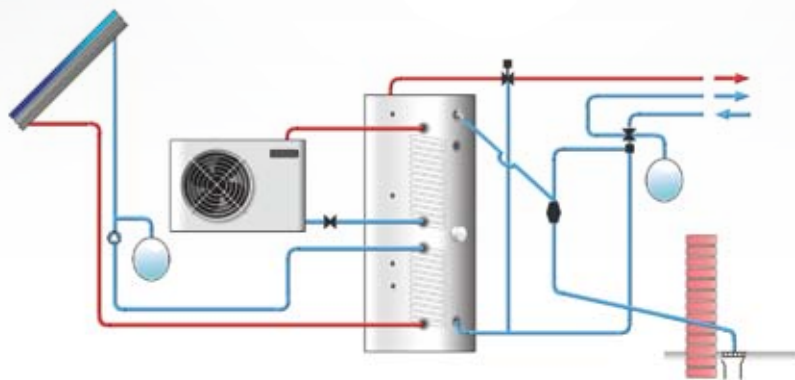
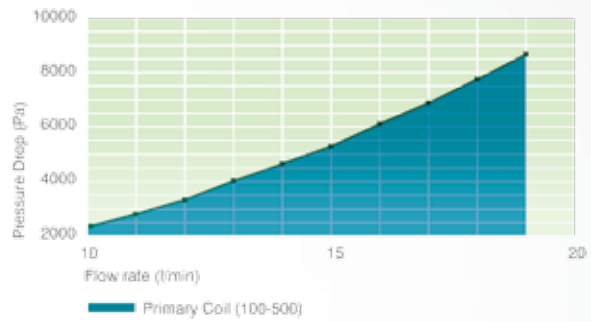
	STANDARD						SLIM LINE			SPECIAL								
Volume (l)	170	200	250	300	400	500	175	205	230	193	222	225	270	280	300	305	342	360
Height (mm)	1205	1085	1335	1535	1535	1880	1535	1880	2000	1335	1535	1205	1085	1880	2000	1205	1335	1880
Diameter (mm)	500	560	560	560	660	660	440	440	440	500	500	560	660	500	500	660	660	560
Weight Empty (kg)	32	34	43	47	62	75	34	36	40	34	38	40	45	46	47	48	55	58
Weight Full (kg)	202	234	293	347	462	575	209	241	270	227	260	265	315	326	347	353	397	418
Reheat Indirect Total Minutes	24	26	26	32	35	35	27	28	32	26	30	31	30	31	34	34	30	32
Reheat 3 kW Immersion Total Min.	75	91	118	141	175	222	76	93	112	87	101	110	135	138	141	144	152	165
EN12897 Prim. Heat Exchng (kW)	19	21	25	25	31	38	19	21	21	21	21	21	25	25	25	25	31	31
EN12897 Solar Heat Exchng (kW)	16	16	18	18	22	22	16	16	18	16	18	18	18	18	18	18	22	22
Dedicated Solar Volume	95	110	135	160	210	260	98	113	125	107	121	123	145	150	160	163	181	190
Standard Standing Loss kWh/Day	1.53	1.8	2.15	2.28	2.41	2.54	1.55	1.82	1.92	1.75	1.86	1.9	2.2	2.24	2.28	2.3	2.35	2.38
Eco80 Standing Loss kWh/Day	1.45	1.59	1.69	1.91	2.15	2.25	1.46	1.61	1.64	1.56	1.62	1.66	1.70	1.72	1.91	1.92	2.00	2.10

When using Eco80, dimensions will change to allow for extra insulation.

Solar Coil - Pressure Drop Graph



Primary Coil - Pressure Drop Graph



1	1	1	1	1	1	0	1	1
Temperature and Pressure Relief Valve	Expansion Vessel	High Flow Rate Inlet Control Set	Dual Thermostat	Incoloy Long 240V 3kW Immersion Heater	15/22 Tundish	22mm Thermostatic Mixing Valve	Expansion Vessel Hose	22 mm 2 Port Motorized Diverting Valve