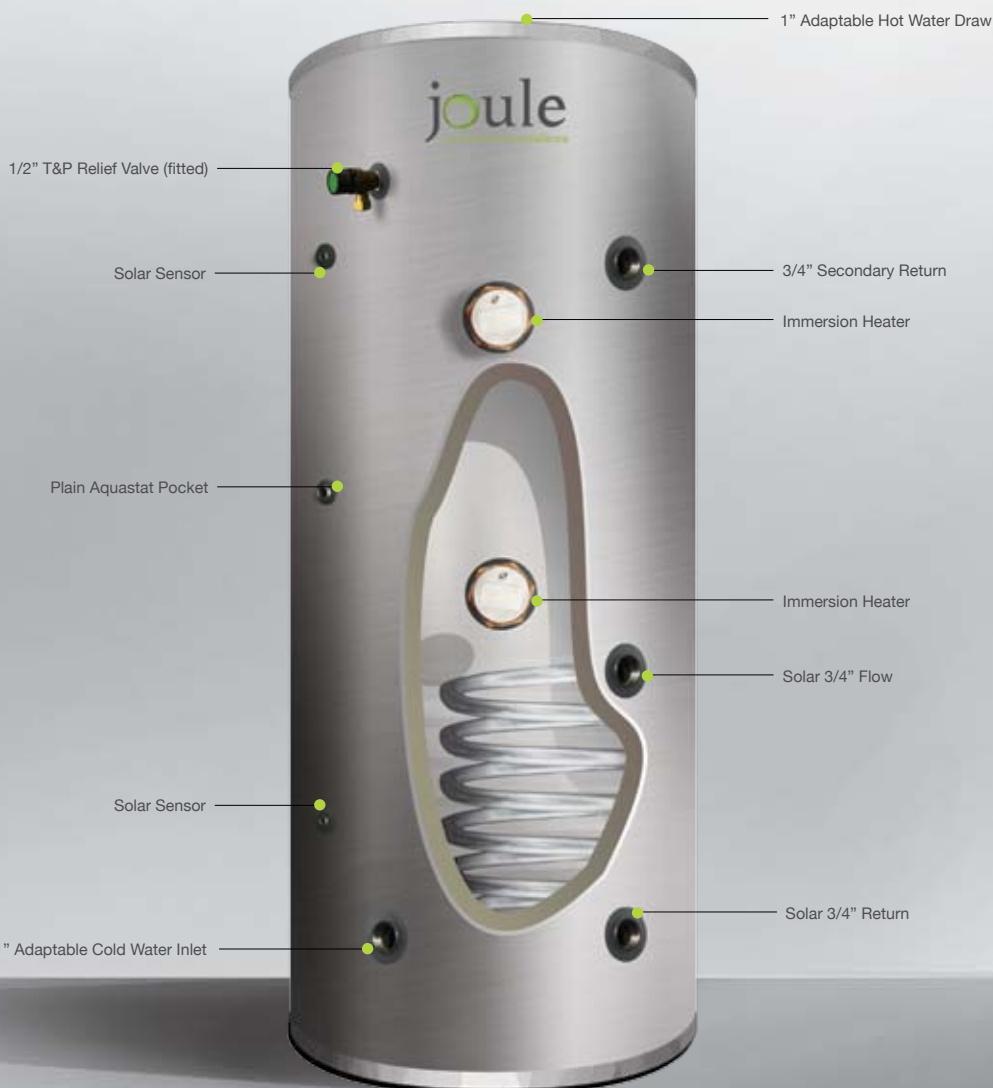


Cyclone Direct Solar

solar supported efficient electrically heated hot water



Direct Solar

These cylinders are designed to have their primary heat source coming from electrical Elements with a secondary Solar Coil for solar support. These cylinders cannot be heated by an oil or gas boiler.

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.

Immersion Heater options

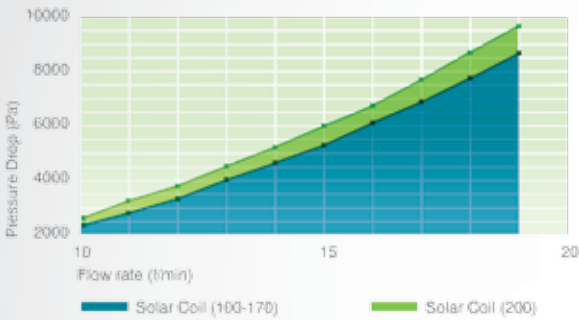
Incoloy immersions come as standard in all Joule Cyclone Cylinders unless otherwise stated. Incoloy immersions are designed for low to medium use in a domestic application. If the water been stored is hard or the usage is high, Joule recommend Titanium Immersions.



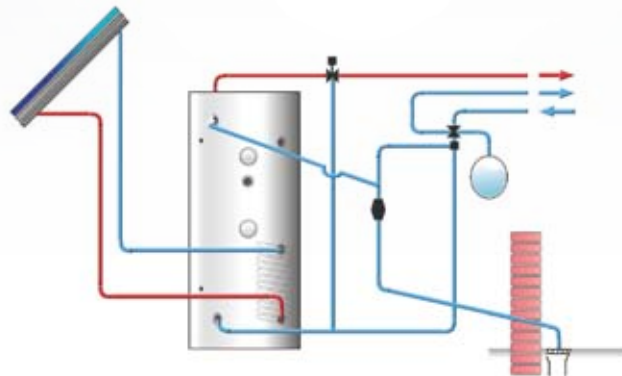
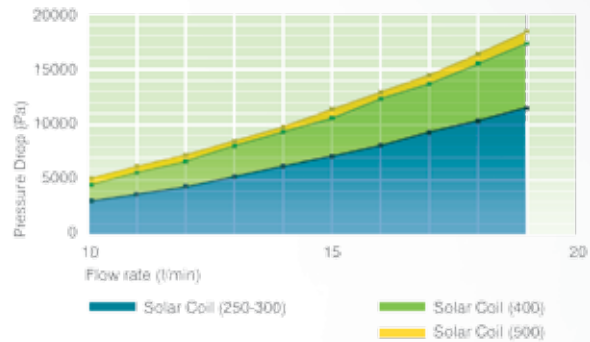
	STANDARD								SLIM LINE								SPECIAL								
Volume (l)	150	170	200	250	300	400	500	100	120	135	150	175	205	230	166	193	222	223	225	270	280	300	305	342	360
Height (mm)	1085	1205	1085	1335	1535	1535	1880	925	1085	1205	1335	1535	1880	2000	925	1335	1535	925	1205	1085	1880	2000	1205	1335	1880
Diameter (mm)	500	500	560	560	560	660	660	440	440	440	440	440	440	440	560	500	500	660	560	660	500	500	660	660	560
Weight Empty (kg)	30	32	34	43	47	62	75	20	24	28	30	34	36	40	32	34	38	39	40	45	46	47	48	55	58
Weight Full (kg)	180	202	234	293	347	462	575	120	144	163	180	209	241	270	198	227	260	262	265	315	326	347	353	397	418
Reheat Indirect Total Minutes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reheat 3 kW Immersion Total Min.	63	75	91	118	141	175	222	44	47	59	63	76	93	112	72	87	101	102	110	135	138	141	144	152	165
EN12897 Heat Exchange kW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EN12897 Solar Heat Exchange kW	16	16	16	18	18	22	22	16	16	16	16	16	16	18	16	16	16	16	16	18	18	18	18	18	22
Dedicated Solar Volume	85	95	110	135	160	210	260	60	70	78	85	98	113	125	93	107	121	122	123	145	150	160	163	181	190
Standard Standing Loss kWh/Day	1.41	1.53	1.8	2.15	2.28	2.41	2.54	1.18	1.25	1.38	1.41	1.55	1.82	1.92	1.48	1.75	1.86	1.87	1.9	2.2	2.24	2.28	2.3	2.35	2.38
Eco80 Standing Loss kWh/Day	1.36	1.45	1.59	1.69	1.91	2.15	2.25	1.03	1.12	1.32	1.35	1.46	1.61	1.64	1.40	1.56	1.62	1.63	1.66	1.71	1.72	1.91	1.94	2.10	2.12

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

Solar Coil - Pressure Drop Graph



Solar Coil - Pressure Drop Graph



1	1	1	1	2	1	0	1	0
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