



SunSpeed

A Low Carbon Buildings Accredited Product

Vented cylinders for use with a solar heat source

SunSpeed domestic hot water cylinders are designed for use with solar panels. The heat exchangers are purpose designed for this application because: -

- (a) The primary flow temperature from this source will normally be significantly lower than from conventional heat sources such as gas boilers. Therefore heat exchangers with large surface areas will be necessary to transfer the heat at low temperature differences.
- (b) A second heat exchanger for conventional heat sources like gas boilers will often be required. In this case the solar panel heat exchanger must be of a compact design and capable of being fitted very low down in the cylinder.
- (c) It is important to match the chosen SunSpeed model (dedicated volume) with the property type to achieve compliance with building regulations.

Heat exchanger specification

The heat exchanger in a SunSpeed cylinder designed for SOLAR is manufactured from 'Integron' integrally finned copper tube and is only suitable for pumped circuits. It is designed to heat the cylinder water content from 10°C to 49°C in one hour with a constant primary flow temperature of 55°C.

In a SunSpeed 2, the heat exchanger i.e. coil for use with a conventional heat source is manufactured in either 22mm or 28mm plain copper tube to meet the requirements of BS1566 and Part L of the Building Regulations. It is rated to give the recovery time under 30 minutes as specified in BS1566.



We are committed to minimising the environmental impact of our operations and work hard to comply with all relevant environmental legislation. We are pro-active in the recycling of old copper cylinders and can offer incentives to customers in order to help reduce the impact of waste on the environment. SunSpeed has an Ozone Depletion Potential (ODP) of zero and a Global Warming Potential (GWP) of zero.

[View Sunspeed Specification](#)

Specification

Model	Heat Exchanger Output KW	Circular Pattern Nominal Capacity Litres	Dedicated Solar Volume Litres	Primary Centres mm	Coil Resistance m bar	Primary Flow Rate Litres/min	Min Heat Source KW	Min Cylinder 'Dia' mm	Surface Area m ²	Heat loss (kWhre/24hrs) 60mm
Sun21	6.15	136	41	288	120	11.36	8	350	0.77	2.6
Sun28	8.2	182	55	288	165	15.14	11	350	0.96	2.9
Sun35	10.25	227	68	343	210	18.91	13	350	1.16	3.4
Sun42	12.3	272	82	400	240	22.73	16	350	1.36	3.7
Sun52	15.38	341	102	343	195	28.41	20	400	1.75	4.5
Sun70	20.5	454	136	343	195	37.87	27	400	2.33	N/A
Sun87	25.6	568	170	400	255	47.32	33	400	2.73	N/A
Sun105	30.76	682	204	400	240	56.32	40	450	3.41	N/A
Sun140	41	909	272	400	225	75.46	53	500	4.43	N/A

