SunSpeed

A 'Clear Skies' Low Carbon Buildings Accredited Product

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

- 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.
- 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.
- It is important to match the chosen SunSpeed model (dedicated volume) with the property type to achieve compliance with clear skies and building regulations.

benchmark

The code of practice for the installation, commissioning and servicing of central heating systems

WRAS APPROVED PRODUCT

RECYCLED COPPER

To protect our environment, we use copper a totally recyclable metal, which never becomes waste.

BSI REGISTERED

FM 2057 Sunspeed is produced under an ISO 9001:2000 Quality System accepted by BSI

Cylinders for use with a solar heat source

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, which is a 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.

Gledhill

BUILDING PRODUCTS

SunSpeed

A 'Clear Skies' Low Carbon Buildings Accredited Product

15 UK factories to serve the merchant faster

For more information call your local manufacturing centre

Blackpool Contact: Michael Moore
Unit 4, Sycamore Estate, Blackpool FY4 3RL
Tel: 01253 474599 Fax: 01253 474598

Braintree Contact: Craig Stallard
15 Finch Drive, Springwood Industrial Estate,
Braintree, Essex CM7 2SF
Tel: 01376 346005 Fax: 01376 346007

Bristol Contact: Barrie Hardcastle
Unit 24, Southfield Trading Estate,
Nailsea, Bristol BS48 1JJ
Tel: 01275 810699 Fax: 01275 810698

Dudley Contact: John Parton
Unit 22, Charlton Drive,
Corngreaves Trading Estate,
Cradley Heath,
West Midlands B46 7BJ
Tel: 01384 636245 Fax: 01384 413700

Hemel Hempstead Contact: Ronnie Asquith
Unit 32E, Bourne End Industrial Estate,
Upper Bourne End Lane,
Hemel Hempstead HP1 2UJ
Tel: 01442 862233 Fax: 01442 862234

Huntingdon Contact: Chris O'Connor
8 Phoenix Court, St Margaret's Way,
Huntingdon PE29 6EB
Tel: 01480 415980 Fax: 01480 413331

Inverkeithing Contact: Stuart Watt
8 Belleknowes Industrial Estate,
Inverkeithing, Fife KY11 1HZ
Tel: 01383 414133 Fax: 01383 413123

Liverpool Contact: Tony Beswick
8 Gibraltar Row, King Edward Industrial Estate,
Off Bath Street, Liverpool L3 7HJ
Tel: 0151 227 1574 Fax: 0151 236 0898

Maidstone Contact: Mark Woodward
Unit 14, Quarry Wood Industrial Estate,
Lake Road, Aylesford, Kent ME20 7TQ
Tel: 01622 714770 Fax: 01622 882286

Newport Contact: Dougie Watts
Unit 12 Wern Industrial Estate, Rogerstone,
Newport NP10 9FQ
Tel: 01633 896299 Fax: 01633 896300

Nottingham Contact: Marc Causer
Unit 5, Bestwood Road, Brookhill Industrial Estate,
Pinxton, Nottingham NG16 6NT
Tel: 01773 580684 Fax: 01773 581129

Reading Contact: Vince Verrier
Unit 4, Suttons Business Park, Reading
Berkshire RG6 1AZ
Tel: 01189 669990 Fax: 01189 669696

Southampton Contact: Rob Gunning
Unit C1, Pegham Industrial Estate,
Lavys Lane, Fareham, Hampshire PO15 6SD
Tel: 01329 846601 Fax: 01329 845881

Totnes Contact: Mark Nelis
Units 1,2&3, The Alpha Centre, Babbage Road
Industrial Estate, Totnes TQ9 5JA
Tel: 01803 840646 Fax: 01803 840645

Washington Contact: Jim Houghton
Unit 28, Sedling Road, Wear Estate,
Washington, Tyne and Wear NE38 9BZ
Tel: 0191 416 4477 Fax: 0191 417 0463

Spec. No. 66. 1K. 07

Cylinders for use with a solar heat source

Gledhill cylinders are manufactured under an ISO 9001:2000 quality management system which is independently audited and accepted by BSI. All our products meet or exceed industry standards and comply with Water Regulations and Building Regulations. All products are also independently approved for compliance with the Water Supply (Water Fittings) Regulations 1999.

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 (kWhrs/ 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

Dimensions in the table above are subject to normal manufacturing tolerances.

Note: Rectangular pattern units are available up to a maximum capacity of 210 litres. Sizes available on request.

- In a 'Sunspeed 1' or 'Sunspeed 2' the Sunspeed Coil is designed to heat the full contents of the cylinder, whilst the conventional fuel coil in a 'Sunspeed 2' is positioned and rated to heat 60% of the contents, unless otherwise specified. Example: A 'Sunspeed 70' would raise 450 litres of water from 10˚C to 49˚C, with a primary flow temperature of 55˚C in one hour, with a minimum heat source output of 27kW.
- To raise the secondary contents closer to the primary flow temperature in one hour would require significantly larger heat exchange surfaces. That means to raise 450 litres from 10˚C to 54˚C with a primary flow temperature of 58˚C would require approximately twice the heat exchange surface, i.e. a 41kW unit.
- The capacities shown above can be supplied in all the usual size variations.
- For circular cylinders up to 280 litres nominal capacity add 90mm to the diameter to account for the Flexi Jacket insulation.

Insulation

Gledhill Building Products has developed a range of factory fitted insulations which have high performance characteristics and long life.

Flexilag insulation uses non combustible Rockwool mineral wool as the insulation material. It is easy to clean, with a flat top, and an attractive appearance, which is tailored to suit any 'tapping' positions required.

The benefits of Flexilag insulation include:

- High performance - retains heat loss properties indefinitely, unlike urethane foam
- Non-combustible eliminating the risk of toxic smoke
- Meet the requirements of BS 3198 and BS 1566 Part 1:2002.
- Totally CFC-free

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.

Gledhill Building Products Limited
Sycamore Estate,Squires Gate, Blackpool FY4 3RL
Tel: (01253) 474550 Fax: (01253) 474551

Gledhill BUILDING PRODUCTS