

Datasheet solar**thermalsunstation**®

ST105

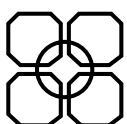
Growing concern over climate change and the subsequent introduction of tighter building regulations have led many businesses to see the commercial benefits of renewable energy technologies.

A solar hot water installation is a simple and cost-effective way of reducing carbon emissions and heating bills. With the Solarcentury Solar Thermal Sunstation® it is easy to specify the appropriate system size, ensuring that your system fits your business needs.

Provides 50-60% of hot water needs
Roofing industry approved fixing methods
Efficient method of cutting CO₂ emissions
Hardened, hail-proof solar glass ensures durability
Highly insulated for optimum heat retention
Frame and rear wall aluminium – recyclable
Embodied energy is offset within 1 year



- Complete packaged solution – fast delivery and installation times prevent delays to building projects
- Standardised system – can be installed by on-site contractors
- Versatile – can be retrofit and scaled to fit a range of hot water requirements
- Highly efficient - Selective absorber coating provides 95% solar absorption
- Long life - designed to last a minimum of 25 years
- Established technology - long history of use
- Harmless heat transfer fluid – minimal environmental impact
- Legionella control as standard



solarcentury

Solarcentury is the UK's leading solar solutions brand. We work with architects, housing developers and home owners to deliver renewable energy and carbon reduction solutions.

We are also the leading UK distributor for the world's best solar electric technologies and have helped more homes and businesses go solar than anyone else in Britain.

ST105

Sizing and Output information

System Size m ²	Cylinder size (litres)	Annual MWh saving	Annual CO ₂ savings (kg)	Maximum total system area (m ²)	System roof load kg/m ²
12	300	3.5 - 4.2	687-813	42	50
14	300	4.3 - 5.2	840-999	48	50
16	550	5.4 - 6.5	1053-1253	80	50
20	700	7.3 - 8.7	1407-1678	96	50
24	700	9.6 - 10.8	1853-2093	112	50
28	900	10.9 - 13.2	2120-2555	128	50

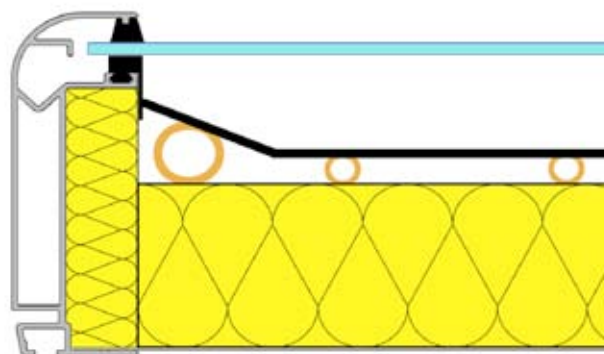
MWh and CO₂ savings vary due to differing levels of insolation around the UK. For savings in your region, please contact us on: 020 7803 0100 or via our website.

Roof Compatibility

The solar thermal Sunstation® is compatible with most commercial and industrial roofs, both flat and pitched. For more information or to discuss the suitability of your roof please contact us on: 020 7803 0100 or via our website

Specification

Collector technology:	ST105 Horizontal
Power:	1.58kW
Dimensions:	1070 x 2100 x 105 mm
Gross area:	2.25 m ²
Weight without heat carriers:	48 kg
Total panel volume:	1.95 lt.
Inclination:	40°
max. use pressure:	10 bar
test pressure:	15 bar

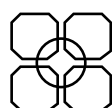


Maintenance

The Solar thermal Sunstation requires very little maintenance. A regular check of the pressure gauge and control unit by the owner and a service every 2 years by a solar engineer will ensure optimum performance.

Warranty Information

The solar collectors have a manufacturers warranty of 10 years, the control unit is warranted for 2 years, and all other components are warranted for 12 months.



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