

Commissioning Certificate (Solar Water Heating System)

A separate form should be completed for each system to be commissioned.

This form should be completed by the system commissioner and returned to Redland Technical Solutions to obtain the 10 years Collector Guarantee.

Complete as fully as possible. If you have any questions, contact Redland Technical Solutions.

DOCUMENTATION handed over to the system owner			
1	User instructions		Yes / No
2	Installation instructions		Yes / No
3	Storage tank commissioning certificate completed and signed		Yes / No
4	Documents listed above should be kept visibly near store, protected from heat, water and dust. Name of the location where the documents are left:		
COLLECTOR / PANELS			
5	Glazing format of solar collector		Flat Plate
6	Net Absorber Area		ST 4 = 3,58 m ² ST 6 = 5,37 m ²
7	Aperture Area		ST 4 = 3,63 m ² ST 6 = 5,44 m ²
8	Manufacturer's name of collector		ST 4 = LDS Kollektor TK 4 Version UK / ST 6 = LDS Kollektor TK 6 Version UK
9	Manufacturer		WAGNER & Co Solar Technik GmbH
10	Manufacturer address		Zimmermannstrasse 12 35091 Coelbe Germany
11	Manufacturer phone number		+49 (0) 64 21 80 07658
12	Unique serial number of collector(s) - located on the outside frame of the collectors		
13	Maximum stagnation temperature of collector		194 °C
14	Maximum design pressure of collector		10 Bar
SYSTEM			
15	Maximum design pressure of pre-heat store exchanger		Bar
16	Maximum design pressure limit of the system		6 Bar
17	System pressure setting when filled		Bar
18	Minimum allowable primary system pressure / level before user action required		Bar
19	Procedure for user to follow if pressure / level is below limit		
20	Location of primary system pressure gauge		
21	Frequency of regular test of pressure safety device		Monthly / Yearly / Biennially
22	Location of pressure safety device		
23	Location of electrical fused isolating switch		
24	Fuse rating		Amps
25	Electrical controls and temperature sensors operating correctly		Yes / No
26	Back up Domestic Hot Water heating fitted with a thermostat responding to the solar pre-heating store		Yes / No
27	Domestic Hot Water thermostat setting		°C
28	Differential pump and control setting		°C
29	Hysteresis setting about differential switching points		°C
30	Expansion vessel capacity		Litres

31	Written warning left on site if there is potentially no automatic resumption of normal operation following stagnation		Yes / No / Not required
32	Lowest ambient temperature of primary system without risk of damage due to freezing		°C
33	Heat transfer fluid freezing temperature		°C
34	Type of transfer fluid		Suitable for flat collector
35	Corrosion inhibitor used		
36	Maximum ambient temperature for pump		°C
37	Minimum ambient temperature for pump		°C
38	Circulation rate setting		Litres per minutes
39	Noise at full circulation acceptable		Yes / No
40	Direction of circulation through collector and heat exchanger matched to sensor position		Yes / No
41	System filled with antifreeze		Yes / No
42	Solar pre-heat store type		Combined with DHW / Separate from DHW
43	Solar primary heat exchanger type		Copper / Steel / Plain / Ripped
44	Solar primary to secondary heat exchanger area		m ²
45	Volume of dedicated solar pre-heat		Litres
46	Location of Domestic Hot Water isolation valve		
47	Method of anti-scalding in Domestic Hot Water distribution		Pump control / TMV
48	Location of digital temperature gauge fitted to monitor risk of Domestic Hot Water overheating		
49	Limescale risk to heat exchanger		Low / Medium / High
50	Limescale control in heat exchanger		Cleaning hatch / Thermostat on primary circulation
SYSTEM PERFORMANCE			
51	Expected annual delivered solar energy to taps		kWh
52	Expected annual solar fraction of Domestic Hot Water		%
53	Method of performance calculation		SAP2005 / T Sol / CIBSE Solar Design Guide / Other
54	Daily Domestic Hot Water load assumption		Litres per day at °C
COMMISSIONING			
55	Commissioned by		
56	Competent persons scheme unique identification number		
57	On behalf of		
58	Date system commissioned and handed over		
59	Signature of commissioning engineer		
60	Signature of user to confirm receipt and understanding		
CONTACT DETAILS - for posting the guarantee and the maintenance forms			
61	Contact first name		
62	Contact last name		
63	Address		
64	Town		
65	County		
66	Postcode		