Eskom SESSA Sustainable Energy Society Southern Africa SABS

SWH CONFORMITY REPORT

Validity: 2011-11-19

Summary of test results for the **SolarMax** domestic solar system in accordance with SANS 1307 and SANS 6211-1

Report Number: **SANS 6211-1** **010S020 c**
SANS 1307 **010S020 a**

This is not a SABS approved product; it has only been tested by the SABS.

SAMPLE INFORMATION:		
Manufacture / Geyser	**SolarMax / Xstream**	
Suppliers Contact details	jacques@solarmax.co.za 083 444 4108 / 086 657 0374	
Water storage tank	150 Lt	400kPa
Type of System	Direct can withstand frost, Uses mechanical dump valve	
Type of operation	Thermosiphon	
Type of Tank	Xstream geyser	
Type of Collector	Flat Plate Collector black coating	
	10 Copper risers	
Heat transfer fluid	Not Applicable	
Collector Aperture Area m^2	2.3 m^2	
Q factor	18.887	At 16MJ/m^2 with temperature difference of 10'C

Compliance to this section is Compulsory	
Element# Kw	SANS 181 Comply 2kW Satchwell
Pressure Control Valve#	SANS 198 Comply 400 kPa, Cobra
Safety Valve#	SANS 198 Comply 400 kPa, 18kW Cobra
Vacuum breaker#	SANS 198 Comply Cobra
Drain Cock#	SANS 1808-53 Comply Cobra
# Needs to be tested to a national standard	

	Tests conducted:	Specification, Clause	Result:
1	Stagnation test (Exposure Test)	SANS1307- **5.2**	**Complied**
2	Rain Penetration	SANS 1307- **4.11.1**	**Complied**
3	Hail Test: 11J ±1J	SANS 1307- **4.11.2**	**Complied**
4	Freeze Test	SANS 1307- **4.11.3**	**Complied**
5	250 000 Pulsation test	SANS 1307- **4.11.4**	**Complied**
6	Marking	SANS 1307- **6.1**	**Complied**
7	Thermal performance- Q factor	SANS 6211-1 **5.5**	**Complied**
8	Heat loss	SANS 6211-1 **5.7**	**Complied**
9	Fixed electric storage water heaters	SANS 151	**Xstream geyser (Mark holder)**
10	Safety of household and similar electrical appliances – Part 2: Particular requirements for storage water heaters.	SANS 60335-2-21 SANS 1307 **4.11.6**	**Xstream geyser (Mark holder)**
11	Production standard	IS0 9001	-
	Remarks:		

Signature : .....

This information was supplied by the supplier.
This document does not imply in any way that the system is SABS approved.

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SWH CONFORMITY REPORT

Validity: 2011-11-19

Summary of test results for the **SolarMax** domestic solar system in accordance with SANS 1307 and SANS 6211-1

Report Number:

SANS 6211-1	**010S020 b**
SANS 1307	**010S020 a**

This is not a SABS approved product; it has only been tested by the SABS.

SAMPLE INFORMATION:		
Manufacture / Geyser	**SolarMax / Xstream**	
Suppliers Contact details	jacques@solarmax.co.za 083 444 4108 / 086 657 0374	
Water storage tank	200 Lt	400kPa
Type of System	Direct can withstand frost, Uses mechanical dump valve	
Type of operation	Thermosiphon	
Type of Tank	Xstream geyser	
Type of Collector	Flat Plate Collector black coating	
	2 X 7 Copper risers	
Heat transfer fluid	Not Applicable	
Collector Aperture Area m^2	2 x (1.6 m^2)	
Q factor	29.330	At 16MJ/m^2 with temperature difference of 10'C

Compliance to this section is Compulsory	
Element# Kw	SANS 181 Comply 2kW Satchwell
Pressure Control Valve#	SANS 198 Comply 400 kPa, Cobra
Safety Valve#	SANS 198 Comply 400 kPa, 18kW Cobra
Vacuum breaker#	SANS 198 Comply Cobra
Drain Cock#	SANS 1808-53 Comply Cobra
# Needs to be tested to a national standard	

	Tests conducted:	Specification, Clause	Result:
1	Stagnation test (Exposure Test)	SANS1307- **5.2**	**Complied**
2	Rain Penetration	SANS 1307- **4.11.1**	**Complied**
3	Hail Test: 11J ±1J	SANS 1307- **4.11.2**	**Complied**
4	Freeze Test	SANS 1307- **4.11.3**	**Complied**
5	250 000 Pulsation test	SANS 1307- **4.11.4**	**Complied**
6	Marking	SANS 1307- **6.1**	**Complied**
7	Thermal performance- Q factor	SANS 6211-1 **5.5**	**Complied**
8	Heat loss	SANS 6211-1 **5.7**	**Complied**
9	Fixed electric storage water heaters	SANS 151	**Xstream geyser (Mark holder)**
10	Safety of household and similar electrical appliances – Part 2: Particular requirements for storage water heaters.	SANS 60335-2-21 SANS 1307 **4.11.6**	**Xstream geyser (Mark holder)**
11	Production standard	IS0 9001	-
	Remarks:		

Signature : .....

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