

SWH CONFORMITY REPORT

Validity: 2013-11-02

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

Report Number: **SANS 6211-1** **12S121 b**

 SANS 1307 **12S121 a**

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

SAMPLE INFORMATION:	
Manufacture	Powerzon
Suppliers Contact details	011 965 0127, mike@powerz-on.co.za
Water storage tank	300 Lt 400 kPa
Type of System	Indirect system uses glycol as freeze resistant
Type of operation	Thermosiphon
Type of Tank	Kwiksol Geyser
Type of Collector	Blue selective coated flat plate collector 8 copper risers
Heat transfer fluid	Food Grade
Collector Aperture Area m ²	2 x 2.3 m ²
Q factor	28.4 At 16MJ/m ² with temperature difference of 10°C

Compliance to this section is Compulsory	
Element# kW	SANS 181 Comply 2kW
Pressure Control Valve#	SANS 198 Not Supplied
Safety Valve#	SANS 198 Kwikot
Vacuum breaker#	SANS 198 Not Supplied
Drain Cock#	SANS 1808-53 Kwikot
* 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	Kwikot 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	Kwikot Geyser (Mark Holder)
11	Production standard	ISO 9001	-
	Remarks:		

 Test Officer: C.R. Tshitlho.....  Technical Specialist: K.C.F. Deist..... 

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