

SWH CONFORMITY REPORT

Validity: 2011-01-03

Summary of test results for the Powerz-On 150-liters Kwikot storage tank & flat plate collector domestic solar system in accordance with SANS 1307 and SANS 6211-1

Report Number: **SANS 6211-1** **09S44 b**
SANS 1307 **09S44 a**

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

SAMPLE INFORMATION:	
Manufacture	Powerz-On Solar Systems, Kwikot
Suppliers Contact details	082-783-0571 / 078-116-4977 / 011 965-0127
Water storage tank	150 Lt 400 kPa
Type of System	Direct Active Geyser Conversion can withstand frost
Type of operation	Forced system using PC SR 868ac Controller and Wilo pump
Type of Tank	Kwikot 600 Dual 150L Standard Storage Tank
Type of Collector	Flat plate Solar Collector 9 copper rises, heat absorbent fins
Heat transfer fluid	Not Applicable
Collector Aperture Area m ²	1.84 m ²
Collector Size	2 m ² (length 2m, width 1m & depth 0.70m)
Q factor	15.944 At 15MJ/m ² with temperature difference of 10°C
Q factor	16.872 At 16MJ/m ² with temperature difference of 10°C

Compliance to this section is Compulsory	
Element [#] Kw	SANS 198 Comply 2KW Kwikot
Pressure Control Valve [#]	SANS 198 Comply 400 kPa, 533CV4, Caleffi
Safety Valve [#]	SANS 198 Comply 400 kPa, 18kw Apex
Vacuum breaker [#]	SANS 198 Comply PB 6.302, Cobra
Drain Cock [#]	SANS 1808 Not supplied
[#] 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 (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 (Mark Holder)
11	Production standard	ISO 9001	-
	Remarks:		