

SWH CONFORMITY REPORT

Validity: 2011-11-19

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

Report Number: **SANS 6211-1** **010S010 b**
SANS 1307 **010S010 a**

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

SAMPLE INFORMATION:	
Manufacture	IS Digital
Suppliers Contact details	082 338 9028 simon.marsden@isdigital.co.za
Water storage tank	200 Litre 600 kPa
Type of System	Direct can withstand frost, with Wilo pump and back-up battery
Type of operation	Forced using 230V Wilo pump. (retrofit)
Type of Tank	Kwikot Geyser
Type of Collector	Vacuum tubes on manifold. 30 tubes
Heat transfer fluid	Not Applicable.
Collector Aperture Area m ²	3 m ² (30 tubes x 0.058 m diameter x 1.75 length m)
Q factor	31.885 At 16MJ/m ² with temperature difference of 10°C

Compliance to this section is Compulsory	
Element [#] kW	SANS 181 Comply 2 kW Satchwell
Pressure Control Valve [#]	SANS 198 Comply 400 kPa, Kwikot
Safety Valve [#]	SANS 198 Comply 400 kPa, Kwikot
Vacuum breaker [#]	SANS 198 Comply, Kwikot.
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 (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:			

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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Validity: 2011-11-19

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

Report Number: **SANS 6211-1** **010S010 c**
SANS 1307 **010S010 a**

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

SAMPLE INFORMATION:	
Manufacture	IS Digital
Suppliers Contact details	082 338 9028 simon.marsden@isdigital.co.za
Water storage tank	150 Litre 600 kPa
Type of System	Direct can withstand frost, with Wilo pump and back-up battery
Type of operation	Forced using 230V Wilo pump. (retrofit)
Type of Tank	Kwikot Geyser
Type of Collector	Vacuum tubes on manifold. 22 tubes
Heat transfer fluid	Not Applicable.
Collector Aperture Area m ²	2.23 m ² (22 tubes x 0.058 m diameter x 1.75 length m)
Q factor	22.286 At 16MJ/m ² with temperature difference of 10°C

Compliance to this section is Compulsory	
Element# kW	SANS 181 Comply 2 kW Satchwell
Pressure Control Valve#	SANS 198 Comply 400 kPa, Kwikot
Safety Valve#	SANS 198 Comply 400 kPa, Kwikot
Vacuum breaker#	SANS 198 Comply, Kwikot.
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 (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:		

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