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Edition 1

SOUTH AFRICAN NATIONAL STANDARD

**The installation, maintenance, replacement
and repair of domestic air source water
heating heat pump systems**

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Table of changes

Change No.	Date	Scope

Foreword

This South African standard was approved by National Committee SABS SC 138G, *Water and sanitation – Equipment and systems – Plumbing components*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in August 2012.

Reference is made in 4.5.1 and 9.2 to “relevant national legislation”. In South Africa this means the Electrical Installation Regulations in the Occupational Health and Safety Act, 1993 (Act No. 83 of 1993).

Reference is made in 5.1.1 to “relevant national legislation”. In South Africa this means the Electrical Installation Regulations in the Occupational Health and Safety Act, 1993 (Act No. 83 of 1993).

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The installation, maintenance, replacement and repair of domestic air source water heating heat pump systems

1 Scope

1.1 This standard covers requirements for the safe and correct installation of new and replacement of domestic air source water heating heat pump systems complete with all the relevant and applicable safety and hydraulic control units.

1.2 It also covers the maintenance and repair (excluding repair to heat pump unit) of the domestic air source water heating heat pump system.

1.3 It covers integral domestic air source water heating heat pump units that fall within the scope of SANS 151 up to 500 L for operation on AC supplies at voltage not exceeding 250 V single phase and 400 V for other appliances, but excludes solar water heaters and the solar part of dual purpose heaters or heat pumps with augmented solar water heating.

1.4 It does not cover the sizing or hydraulic design of the system.

NOTE For information on sizing and design, see SANS 10252-1.

1.5 It covers the safe, correct and appropriate method of interconnecting domestic air source split (remote) water heating heat pump system into a new and/or existing approved fixed electric storage water heating systems

NOTE Commonly referred to as a retrofit

1.6 It also covers the appropriate methods of the domestic heat pump heating system installation to provide the optimal energy efficiency of the heating system.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

SANS 151, *Fixed electric storage water heaters*.

SANS 181, *Thermostats for electric storage water heaters*.

SANS 198, *Functional-control valves and safety valves for domestic hot and cold water supply systems*.