

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Amendment No. 1
to
AS/NZS 3102:2002
Approval and test specification for electric duct heaters**

REVISED TEXT

The 2002 edition of AS/NZS 3102 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This amendment applies to Clauses 3, 4.2, 4.3, 5.2, 5.3, 7.3, 12, 17.3 and table 1.

Published on 14 November 2003.

Approved for publication in Australia on behalf of the Council of Standards Australia on 1st September 2003.

Approved for publication in New Zealand by the Standards Council of New Zealand on 9th September 2003.

3 *Add the following IEC reference.*

60252-1 A.C. Motor capacitors

This Amendment forms part of the Standard on publication.

4.2 *Add the following Note.*

NOTE In the case of a tubular sheathed heating element, the insulation and metallic sheath are an integral part of the heating element.

This Amendment forms part of the Standard on publication.

4.3 *Replace the text of the definition by the following.*

heating element together with its supports and immediate enclosure, if any.

This Amendment forms part of the Standard on publication.

5.2 *Add the following Note.*

NOTE This requirement does not apply if the tests of this standard can be met without the internal insulation and the enclosure temperature does not exceed 120° C.

This Amendment forms part of the Standard on publication.

5.3 *Replace "unit" with "element"*

This Amendment forms part of the Standard on publication.

7.3 *Replace the text by the following.*

The duct heater shall be provided with both the following devices as a safeguard against overheating under abnormal operating conditions:

- a) A device to interrupt electric supply to the heating unit if airflow through the duct heater ceases. This device may be a thermal cutout or an air supply failure switch. The device shall comply with the test requirements of Clause 17.8.2.
- b) A non-self-resetting thermal cutout, located within the duct heater casing or air duct adjacent to the heating units, so that the air temperature in the immediate vicinity of the heating units does not exceed 120°C under abnormal operation. The thermal cutout shall comply with the test requirements of Clauses 17.8.1 and 17.8.2.

NOTE "immediate vicinity" is considered to be a distance of 25 mm.

The devices mentioned in a) and b) may interrupt the heating unit current directly or they may form part of a system in which they interrupt the heating unit current indirectly via a component such as a contactor. The device or system providing protection during abnormal operation shall not operate during normal operation.

The devices or systems are not required if the air temperature in the immediate vicinity of the heating units does not exceed 120°C under the abnormal operation conditions described with the devices short-circuited.

This Amendment forms part of the Standard on publication.

12 *Add the following.*

This requirement does not apply to motor capacitors, if the capacitor is of class P2 as specified in IEC 60252-1.

This Amendment forms part of the Standard on publication.

17.3 *Amend the Clause title to the following.*

17.3 Normal operation test

This Amendment forms part of the Standard on publication.

Table 1 Replace the description of test no 5 by "Normal operation test"

This Amendment forms part of the Standard on publication.
