



GAS APPLIANCES
TECHNICAL GUIDANCE BULLETIN

Bulletin Number: 24
Bulletin Date: 25 September 2023
Product Type: All
Relevant Standard(s): AS 5263.0 2023 *Gas Appliances – General Requirements*

Relevant Clause(s) Clause 5.10.3.2
Subject: Sealing of room sealed appliances.

Guidance to be provided:

Modified Requirements

When assessing the sealing of room sealed appliances under MOT ZC20, it is permissible to seal internal combustion fan openings to the room during this test if all the following conditions are met:

1. The combustion circuit includes a combustion fan where internal gaps inside the combustion fan are present that allow for air leakage paths from the combustion chamber to the room while the fan is not operating (e.g. bearings); and
2. The design of the fan means that leaking of combustion products through those internal openings is prevented while the fan is in operation; and
3. The appliance incorporates air proving that will prevent gas flow to the burner while the fan is not operating.

Reason: Requirements covering the assessment of the sealing of room sealed appliances are under review. Historically some combustion fans used in room sealed appliances have internal gaps that allow air leakage from the combustion circuit while the fan is stationary and do not comply with the combustion chamber sealing test, which is conducted with the fan off. However, an assessment has confirmed that when these fans are operating, the dynamic pressures means that no leakage occurs from the fan during application operation. As a result, it was accepted that the assessment of combustion chamber sealing can be conducted with the fan opening sealed, to reflect performance under normal operating conditions.

Action(s): Conformity assessment bodies are to consider the above assessment option when assessing the product type for certification.

Transition: Immediate.

Proposed Revision(s) to Standard(s):

AS/NZS5263.0 will be reviewed to consider the above issue in the next update, at which time the requirements of the standard will apply and will supersede this bulletin.

This bulletin provides technical guidance from the Gas Technical Regulators to Conformity Assessment Bodies that are JASANZ accredited for the certification of gas appliances required to comply with AS3645. This technical guidance is provided where the technical requirements or test methodologies from current technical standards are inadequate or can be misinterpreted. This bulletin is valid until such time as the relevant technical standard is revised or amended accordingly.