

Australian/New Zealand Standard™

**Domestic solid fuel burning  
appliances—Pellet heaters—Method for  
determination of power output and  
efficiency**

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## **AS/NZS 5078:2007**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CS-062, Solid Fuel Burning Appliances. It was approved on behalf of the Council of Standards Australia on 19 January 2007 and on behalf of the Council of Standards New Zealand on 26 January 2007.

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The following are represented on Committee CS-062:

Australasian Fire Authorities Council  
Australian Building Codes Board  
Australian Chamber of Commerce and Industry  
Australian Home Heating Association  
Australian Industry Group  
Australian Institute of Building Surveyors  
Australian Lung Foundation  
Clean Air Society of Australia and New Zealand  
Consumer Federation of Australia  
Department of Environment and Conservation—WA  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-062, Solid Fuel Burning Appliances in response to a request from Environment Australia and the Australian Home Heating Association, and the New Zealand Home Heating Associations.

The Standard sets out sufficiently comprehensive specifications and instructions to enable the method to be used by all interested organizations with appropriate test facilities.

It is intended that the results of testing to this method will be used to ensure all appliances complying with this Standard have efficiency of 70% or greater and that the results will be used by consumers during selection of pellet fuel burning appliances.

NOTE: Committee CS-062, Solid Fuel Burning Appliances is considering revision to Clause 6.7.2 which would require one test burn period to be carried out with the air convection fan operated at its maximum rate and one with the fan off at each burn rate. Automatic fan controls would be allowed to function normally except as required in Clause 6.7.4. Feedback from stakeholders on this issue is invited.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard****Domestic solid fuel burning appliances—Pellet heaters—Method for determination of power output and efficiency**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard sets out a method for the determination of the average efficiency and average thermal power output from a domestic automatic continuous feed, pellet fuel-burning appliance.

**1.2 APPLICATION****1.2.1 General**

This Standard applies to domestic pellet burning appliances.

**1.2.2 Included appliances**

Appliances within the scope of this Standard include—

- (a) space-heating appliances; and
- (b) space-heating appliances that include water heating devices.

**1.2.3 Excluded appliances**

Appliances excluded from this Standard are—

- (a) site-built masonry appliances;
- (b) central heating appliances;
- (c) cooking appliances;
- (d) appliances intended solely for water heating; and
- (e) appliances intended solely to distribute convective heat via ducting to locations remote from the appliance.

**1.3 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS/NZS	
2918	Domestic solid fuel burning appliances—Installation
3869	Domestic solid fuel burning appliances—Design and construction
4014	Domestic solid fuel burning appliances—Test fuels (series)
4886	Domestic solid fuel burning appliances—Pellet heaters—Determination of flue gas emission

**1.4 DEFINITIONS**

For the purpose of this Standard, the definitions given in AS/NZS 2918, AS/NZS 3869, AS/NZS 4886, and those below apply.