

Schedule XII – Emission Requirements:

Small scale solid fuel burners

PART A SMALL SCALE SOLID FUEL BURNERS - AIRZONE 1 - HASTINGS AIRSHED

A-1 SOLID FUEL BURNER REQUIREMENTS (FREE STANDING BURNERS, NEW BURNERS³ (WITH OR WITHOUT A WETBACK) & INSERT BURNERS (WITHOUT A WETBACK)

A-1.1 a small scale solid-fuel burner must:

- a) emit no more than 1.0 gram of total suspended particulate matter per kilogram of fuel burned, calculated by averaging the total suspended particulate emissions for high, medium and low burn rates, when tested in accordance with AS/NZS4012:1999 and AS/NZS4013:1999, or AS/NZS4014.6.2007, AS/NZS4886.2007 and AS/NZS5078:2007 when testing pellet burners, or the functional equivalent for other non batch-fed appliances. Where the nominated test fuel is wood then the test shall be carried out using softwood in accordance with the requirements of AS/NZS 4014.2:1999
- b) have a thermal efficiency, for space heating only, as described in AS/NZS4013:1999, of 65% or greater
- c) comply with the definition of 'NESAQ compliant burner' in this Plan
- d) not be modified in any way so as to alter the specifications of the burner from those tested and stated by the manufacturer
- e) be maintained in good operational order and operated in accordance with the manufacturer's instructions and
- f) be capable of being operated on a high, medium and low burn rate.

A-2 SOLID FUEL BURNER REQUIREMENTS (INSERT BURNERS WITH A WETBACK)

A-2.1 a small scale solid-fuel burner must:

- a) emit no more than 1.5 grams of total suspended particulate matter per kilogram of fuel burned, calculated by averaging the total suspended particulate emissions for high, medium and low burn rates, when tested in accordance with AS/NZS4012:1999 and AS/NZS4013:1999, or AS/NZS4014.6.2007, AS/NZS4886.2007 and AS/NZS5078:2007 when testing pellet burners, or the functional equivalent for other non batch-fed appliances. Where the nominated test fuel is wood then the test shall be carried out using softwood in accordance with the requirements of AS/NZS 4014.2:1999
- b) have a thermal efficiency, for space heating only, as described in AS/NZS4013:1999, of 65% or greater
- c) comply with the definition of 'NESAQ compliant burner' in this Plan
- d) not be modified in any way so as to alter the specifications of the burner from those tested and stated by the manufacturer
- e) be maintained in good operational order and operated in accordance with the manufacturer's instructions
- f) be capable of being operated on a high, medium and low burn rate, and
- g) be connected to the hot water supply system within a residential dwelling.

PART B SMALL SCALE SOLID FUEL BURNERS - AIRZONES 1 & 2 - NAPIER AIRSHED AND AIRZONE 2 - HASTINGS AIRSHED

B-1 SOLID FUEL BURNER REQUIREMENTS

B-1.1 a small scale solid-fuel burner must:

- a) emit no more than 1.5 grams of total suspended particulate matter per kilogram of fuel burned, calculated by averaging the total suspended particulate emissions for high, medium and low burn rates, when tested in accordance with AS/NZS4012:1999 and AS/NZS4013:1999, or AS/NZS4014.6.2007, AS/NZS4886.2007 and AS/NZS5078:2007 when testing pellet burners, or the functional equivalent for other non batch-fed appliances. Where the nominated test fuel is wood then the test shall be carried out using softwood in accordance with the requirements of AS/NZS 4014.2:1999
- b) have a thermal efficiency, for space heating only, as described in AS/NZS4013:1999 of 65% or greater
- c) comply with the definition of 'NESAQ compliant burner' in this Plan
- d) not be modified in any way so as to alter the specifications of the burner from those tested and stated by the manufacturer
- e) be maintained in good operational order and operated in accordance with the manufacturer's instructions and
- f) be capable of being operated on a high, medium and low burn rate.

³ A new burner is classed as a burner not replacing an existing burner located within the same building.

PART C SMALL SCALE SOLID FUEL BURNERS - NAPIER AIRSHED AND HASTINGS AIRSHED

C-1 MODIFIED SOLID FUEL BURNER & INFORMATION REQUIREMENTS

C-1.1 the modified small scale solid-fuel burner must:

- a) emit no more than 1.5 grams of total suspended particulate matter per kilogram of fuel burned, calculated by averaging the total suspended particulate emissions for high, medium and low burn rates, when tested in accordance with AS/NZS4012:1999 and AS/NZS4013:1999, or AS/NZS4014.6.2007, AS/NZS4886.2007 and AS/NZS5078:2007 when testing pellet burners, or the functional equivalent for other non batch-fed appliances. Where the nominated test fuel is wood then the test shall be carried out using softwood in accordance with the requirements of AS/NZS 4014.2:1999
- b) have a thermal efficiency, for space heating only, as described in AS/NZS4013:1999 of 65% or greater
- c) comply with the definition of 'modified NESAQ compliant burner' in this Plan
- d) be maintained in good operational order and operated in accordance with the manufacturer's instructions and
- e) be capable of being operated on a high, medium and low burn rate.

C-1.2 all modifications shall be undertaken by an independent suitably qualified person⁴ approved by the burner manufacturer and notified to the Hawke's Bay Regional Council.

C-1.3 the following information shall be provided to the Hawke's Bay Regional Council prior to the modification taking place:

- a. name, address and phone number of property owner
- b. description of the type of device, year of manufacture and installation, and tested particulate emission rates for that device at the time of installation (if available)
- c. a description of the modifications that need to take place to make the existing burner NESAQ compliant
- d. confirmation by the burner manufacturer or their agent that the existing burner is in good working order, and complies with the technical specifications of the particular NESAQ compliant burner model, or provision of a list of remedial work necessary to make it NESAQ compliant, and/or to restore the burner to good working order
- e. technical specifications of the old appliance and the equivalent NESAQ authorised appliance, and confirmation by the burner manufacturer that the technical specifications and overall dimensions of both burners, after modification are the same.
- f. a list of measures that can be undertaken to ensure the existing burner cannot be easily tampered with after the modification has occurred.

C-1.4 the following information must be provided to the Hawke's Bay Regional Council after the modification has occurred:

- a. confirmation by the burner manufacturer that the technical specifications of the existing burner and the equivalent NESAQ compliant burner, after modification are the same
- b. confirmation by the burner manufacturer that the list of remedial work identified in condition C-1.3(d) above (if any), has been undertaken
- c. name and phone number of the approved 'independent suitably qualified person' who carried out the modification.
- d. Confirmation that the list of measures referred to in C-1.3(f) above have been carried out.

C-1.5 the Hawke's Bay Regional Council may require information provided in accordance with C-1.3 above to be technically peer reviewed.

⁴ An independent suitably qualified person is deemed to include the manufacturer of the burner, or a nominated representative of the manufacturer, or staff employed by the manufacturer.