



# Criteria for Gas Heaters

VERSION 1.0

Following are the product criteria for ENERGY STAR qualified gas heaters. A product must be manufactured or distributed by a New Zealand ENERGY STAR partner and meet all of the identified programme requirements to be registered with the New Zealand ENERGY STAR programme.

## 1) Definitions:

- a) Gas heating appliance – an appliance with a fixed configuration, sold as a ready-to-install kit containing all system components that is designed to heat a living space via the direct combustion of gas.
- b) Flued - an appliance which incorporates a fixed passage through which flue gases are conveyed from the appliance to a discharge point, excluding draft diverter, barometric device, fan or similar part, defined in accordance with the standard AS 4553:2008.

## 2) Qualifying products:

All flued gas heaters with a gas consumption not exceeding 150 MJ/h are eligible for ENERGY STAR endorsement, provided they meet the criteria below.

## 3) ENERGY STAR criteria:

The overall efficiency of the heater ( $\eta_{net}$ ) must be at least 79% when calculated in accordance with AS 4553.

This is equivalent to a star rating allocation of 4 or more stars, when calculated in accordance with AS4553:2008.

## 4) Test Criteria:

Manufacturers may either:

- a) have products performance tested and registered with at least one of the four Australian certification bodies: AGA, SAI Global, IAPMO and Global-Mark; or
- b) if the product is to be registered only for the New Zealand market, provide EECA with a test report from an accredited laboratory, demonstrating the energy efficiency performance when tested in accordance with AS 4553:2008.

## 5) Testing and validation:

Products may be check-tested by EECA in accordance with AS 4553:2008 to ensure that they meet claimed levels of energy performance.

If a product does not achieve its declared energy performance when check-tested, it may be suspended from the ENERGY STAR programme by EECA.

## 6) Effective date:

The effective date of this specification is 1 March 2013.

## 7) Valid countries:

The specification applies in New Zealand only.

## 6) Future revisions:

EECA reserves the right to change the criteria should regulatory, technological and/or market changes affect its usefulness to consumers, industry or the environment.