

## Safe use guidelines

# Flueless gas space heaters

The purpose of this information is to provide users of flueless gas space heaters with guidance on their safe use.

## What is a flueless gas space heater?

A flueless gas space heater is a gas appliance that does not have a flue to collect and exhaust to an outside area – the products of combustion that result from burning gas in the appliance. This type of appliance releases the combustion products directly into the room it is heating.

## What combustion products are produced?

The combustion products produced by flueless gas heaters include a number of pollutants such as nitrogen dioxide and carbon monoxide, which can be harmful to health. Water vapour is also produced and can directly affect health by increasing the growth of moulds and dust mites. The amounts of air pollutants produced by a flueless gas heater can vary depending on the size and type of heater, its installation and how well it has been maintained. The level of air pollutants in the room will also vary depending on the way in which the heater is used, the size of the room and the amount of fresh air that enters the room through fixed ventilation openings.

## Potential health effects of indoor air pollutants

Flueless gas heaters are known to increase the level of pollutants inside a home. Recent research has found that at high levels, these pollutants can increase the incidence of symptoms in some people with respiratory sensitivities.

People with asthma are particularly susceptible to increased levels of indoor air pollutants and may experience asthma symptoms more often.

## Recommendations for using a flueless gas space heater

There are several things users can do to avoid or reduce exposure to pollutants from flueless gas space heaters:

- Keep the room well ventilated. If the room is fitted with a gas bayonet fitting (quick connect device socket) to allow the connection of a flueless gas heater, then by law two permanent ventilation openings must be installed. The vents must connect to the outside of the building – one vent must be installed at low level and the other vent at high level.
- The physical external dimensions of each vent should be no less than the equivalent of 310 mm x 170 mm (to provide for a minimum open area of 25,000 square mm based on the vent design having an open area of 48 per cent).
- Never use a flueless gas space heater in a bedroom, bathroom or in a caravan. (Note: Flueless gas space heaters are being phased out of use in child care centres and all schools, to avoid the lengthy exposure of children to the emissions produced).
- Do not use the gas heater unless it has been certified for use by the Australian Gas Association, Intertek SAI Global, IAPMO Oceania, Global Mark or VIPAC (check for label or badge attached), or if the gas consumption of the heater exceeds 25 MJ per hour.
- Make sure that air volume of the room in which the heater is used is at least 30 cubic metres (for example: 3.5 m x 3.5 m with a 2.4 m high ceiling).

- Follow the manufacturer's instructions for the use of the gas space heater.
- Have each flueless gas space heater serviced by a qualified person once every two years. A poorly maintained gas heater, together with inadequate ventilation, may contribute to high levels of pollutants.

## Further information

Further information on this subject may be obtained from relevant gas appliance manufacturers or their local representatives.

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Industry Regulation and Safety**  
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