

FANMASTER WARM AIR HEATER

Caution

1. Read the Operating Instructions before using the Fanmaster.
2. Aerosols and other flammable materials **MUST NOT** be stored behind, or adjacent to, the Fanmaster.
3. One or more duct outlets must be open whilst the Fanmaster is in use.
4. The Fanmaster has the potential to draw 8 amps at 2kW. It is therefore advisable to check the supply rating before switching on two loads (items) greater than the supply as this may cause an overload and the circuit breaker to trip.

GENERAL DESCRIPTION

The Fanmaster is an automatically controlled fan designed to distribute warm air through the ducts to outlets positioned around the caravan.

All the functions of the Fanmaster are controlled by a remote wall mounted controller.

The air is heated either by the Fanmaster's own integral electric elements or by the Carver gas fired heater on which the Fanmaster is mounted, but not by both at the same time.

The built in elements are automatically or manually switchable between 0.1kW and 2kW and require a 240v AC mains supply

drawing a maximum of 8 amps at 2kW. The fan requires a 12v DC supply and will take 1.5A at maximum speed.

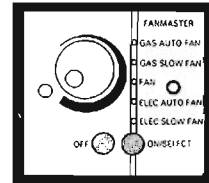
When using electric heating, the caravan temperature is regulated by the thermostat on the controller and when using gas heating, the temperature is controlled by the gas heater thermostat. In summer, the fan may be operated without any heat input to distribute cool air.

The duct outlets are generally of the butterfly type and may be opened or closed by rotating the serrated disc and the direction of flow controlled by twisting the butterfly in its housing.

CONTROLLER OPERATION

The controller contains a thermostat, a mode selection button, an OFF button and 5 lights showing which mode is selected.

The Fanmaster is switched On by pressing the 'Select' button once. The indicator light will show Mode 1 selected, flash for a few seconds and then remain steady. When the light is steady the Fanmaster is working in the indicated mode. Subsequent operation of the Select button will sequentially change the mode from 1 to 2 to 3 to 4 to 5 and then back to 1. If the select button is kept pressed, then the modes will automatically change in sequence and the lights will flash whilst this happens. When the required mode is selected, removal of the finger will



**Butterfly
Outlet**

Fanmaster Control Panel

stop the progression, the light will flash for a few seconds and then remain steady showing that the Fanmaster is operating in the selected mode.

The thermostat on the remote controller **ONLY** operates when electric heating is selected. Movement clockwise increases the selected temperature.

To switch the Fanmaster OFF, press the OFF button once, all the lights will go out.

DESCRIPTION OF OPERATION

Gas Auto Fan — Mode 1

When this mode is selected, the Fanmaster distributes the heat produced by the Carver gas heater. This heater must be turned on independently, and the caravan temperature is controlled by the gas heater thermostat.

Fitted Equipment

The Fanmaster speed tracks the temperature of the air being drawn into it from the gas heater. When this is high, the Fanmaster runs fast to distribute the heat around the caravan. When the caravan temperature approaches the comfort level set on the heater thermostat, the gas input to the heater is reduced and the Fanmaster slows down to avoid producing cool draughts. When the heater thermostat calls for more heat, the gas input to the heater increases, the air being drawn into the Fanmaster gets hotter and the fan speed rises to match it.

This mode may be used without a mains electric hook-up.

Gas Slow Fan — Mode 2

When this mode is selected, the Fanmaster runs continuously at low speed to distribute the heat from the Carver gas fired heater. For this mode the Carver heater would normally be set at a low rate for background or overnight heating.

Fan — Mode 3

In this mode the Fanmaster runs continuously at maximum speed. It can be used to maintain maximum air circulation whilst heating on gas only, or to circulate air without heating in summer.

Electric Auto Fan — Mode 4

In this mode the Fanmaster runs at maximum speed with the integral 2kW electric element operating. When the comfort level set on the Fanmaster control is achieved, the electrical input is reduced to 1kW and the fan speed is reduced.

If the temperature continues to rise, the element is switched off but the fan continues to run on low speed. A drop in temperature will reverse the sequence.

A mains electric hook-up is needed for this mode and the maximum current will be approximately 8 amps.

Electric Slow Fan — Mode 5

When this mode is selected, the Fanmaster runs continuously at low speed and the 1kW element is energised. When the comfort level set on the Fanmaster control is achieved the element is switched off but the fan continues to run.

This mode would normally be used for background or overnight heating and requires a mains electric hook-up. The maximum current will be approximately 4 amps.

SAFETY INSTRUCTIONS

1. To prevent overheating of the electric elements, at least one warm air outlet must be open at all times. It is

recommended that one outlet should ALWAYS BE OPEN.

2. If all outlets are closed or blocked the over-heat trip will operate and switch OFF the heating elements. If this happens the thermal cut-off will operate (this is a single operation device and will be required to be replaced by a suitably qualified person).
3. If the Fanmaster is switched off when hot and then restarted immediately there may be a delay before heating recommences.
4. Ensure that clothing etc is kept clear of the back of the heater.
5. Ensure that the electrical cables of the Fanmaster are not strained or damaged.
6. It is not good practice to run on Gas Slow Fan — Mode 2 with the heater on a high setting.
7. Because of the control method, using electric and gas heating simultaneously will not give faster warm-up time and is not recommended.

Servicing

The Fanmaster requires no routine servicing but, together with the mains electric installation in the caravan, should be annually serviced by a competent service engineer.