## Initial startup

Connect to a suitable power supply

Switch the switch from ‘0’ to ‘1’

The fan should start immediately. As a safety feature, the fan runs as soon as the unit has power – ensure the fan is operating. If it fails to operate check the supply, and if the supply is correct and operational, contact your supplier.

Turn the control stat fully clockwise, the unit should slowly start to generate warm air. If the heater is not putting out warm air within fifteen minutes, check the control stat is fully turned to the clockwise, if it is contact your supplier.

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NOTE that this model is fitted with a spigot. This enables the fitting of up to 5 metres of ducting ( not supplied) so that heat may be delivered at a distance from the heater

# KFF3 FAN HEATER

(230v/240v & 110v)

Portable Electric Fan Heater

## OPERATING INSTRUCTIONS

PLEASE ENSURE YOU HAVE READ AND UNDERSTOOD THESE INSTRUCTIONS FULLY BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.

## GENERAL SAFETY

This equipment should only be used by a competent person who has read and fully understood these instructions.

Never operate this equipment if you are ill, feeling tired or are under the influence of alcohol or drugs.

Never place anything on top of the unit and never obstruct it's air inlet/outlet grills. Leave a 300 mm gap around the unit to let the air circulate. Keep all vents clear of obstructions.

Always switch OFF and unplug the equipment when not in use.

Check condition of the equipment before use. If unit is showing signs of damage contact your supplier immediately.

## ELECTRICAL SAFETY

These models are available in either 230v/240v or 110v format.

230v/240v model – Connect to a standard 3 pin 13 amp 1 phase 50 Hz 230v/240v socket via it's moulded mains lead.

110v model – Connect to an adequately rated transformer (must be CONTINUOUSLY RATED) via it's 32A plug or to a 32A 110v 50Hz supply.

These models are designed for internal use only, do not use externally.

**Note:** This heater uses a fully sheathed incolloy heating element which does NOT glow red in normal use; It will remain 'black'. It will take from 5 to 10 minutes depending on ambient temperature for the element to reach it's designed operating temperature, consequently it will take at least 5 minutes post operation for the element to cool down.

**To stop the unit :** Move the ON/OFF switch to position 0.

The KFF3 is fitted with a safety limit 'over-temperature' thermostat. Should the designed operating temperature be exceeded, this will open circuit the element(s). This will automatically reset as the temperature reduces.

This operates independently of the fitted externally operated thermostat.

Maximum ambient operating temperature is 40°C

In areas where several heaters are used simultaneously, the position of the unit is an important consideration.

## OPTIONS

All units are now fitted with a control thermostat. This is adjusted by the rotary control knob on the rear of the unit.

The control thermostat will switch the elements only, the fan will continue to operate as long as there is power to the unit.

Rotating the knob fully clockwise will cause the heater to continue to generate heat until the ambient temperature sensed by sensor (silver tube located behind the grill at the rear of the unit) reaches nominally 40°C. At this point, power to the heating element will be cut but the fan will continue to run.

Rotating the control stat knob anti-clockwise will lower the temperature at which the element will switch off.

When the sensed ambient temperature is below the point at which the thermostat is set to, power to the element will resume.

## Precautions

Do not site the unit near to soft fabrics, which could be sucked over the intake grill, blocking the airflow and overheating the unit. Leave a 600 mm gap at the front and rear of the unit.