

## Introduction

This heater appliance is intended for recessing into an internal wall. It is to be mounted with the bottom edge between 100 mm and 1000 mm from the floor. The inner unit is secured to the walls by screws through the side flanges. The front cover fascia is secured to the side flanges with four screws. The heater appliance must not be obscured or restricted at the front.

## Use only on a two pipe pumped central heating system

**This heater appliance must NOT be used in bathrooms or similar applications. See separate 12v SELV Model.**

## Preparation

- 1) A hole measuring 400 mm vertical x 358 mm horizontal x 88mm deep in the wall is required. Facilities must also be provided for the electrical connection and the heating system 15mm flow & return pipe work. Ensure the edges of the hole are flat and that the top and bottom edges will accept the back panel fixing screws (see diagram 1). If necessary, drill and plug the wall according to wall type and construction material for these fixing points.
- 2) Remove the four screws securing the front cover fascia and lift away. Store the fascia & screws in a safe place until required.
- 3) Place the chassis unit into the recess in the wall with the electrical cable in the lower right hand corner. Mark through the two vacant holes in each side flange. Remove the chassis and drill and plug the wall according to the screw types to be used.
- 4) Using all four vacant screw holes, two in each flange, secure the chassis in the recess and check it is level, flat and firm.

## Pipework

Connect the heater to the central heating flow and return pipes. We recommend that full flow service valves are located close to the heater for future servicing if necessary. Note; The system flow pipe may be connected to either header tube on the heater. Open fully the isolating valves and fill the system

## Commissioning


Switch on the central heating system and ensure any room thermostats are calling for heat. If there are other heating appliances such as radiators on the heating circuit it will be necessary to balance the system to ensure the correct water flow rate through the heater appliance. Check joints for water leaks. Bleed any air from the heating system. Open the bleed valve located on the upper left side of the heat exchanger until any air is cleared. Do not over tighten when closing the valve.

This heater is equipped with a low temperature cut-out thermostat that operates at approx. 47°C to prevent the fan running on after the water temperature has dropped significantly. If the fan does not energise within approximately 4 minutes, check water temperature and flow rate. Air may accumulate after initial venting and may require additional venting.

Replace the cover panel and secure in place (see diagram 2).

## Electrical Connections

**All electrical connections and installations must comply with BS7671 1992, and the I.E.E. Regulations. Check the voltage stated on the heater appliance is correct for your supply. If in doubt, consult a qualified electrician.**

Connect the three core electrical cord to a 3 AMP-fused switched spur. The colours of the wires in the mains lead supplied with this appliance may not correspond with the coloured markings identifying the terminals in your fused spur. The GREEN-AND-YELLOW wire must be connected to the terminal in the outlet marked with either the letter E or by the Earth symbol  or coloured GREEN or GREEN-AND-YELLOW.

The BLUE wire must be connected to the terminal marked with either the letter N or coloured BLACK.

The BROWN wire must be connected to the terminal marked with either the letter L or coloured RED.

## Operation

The rocker switch provides Normal / Off / Boost fan speeds. Position **I** - fan normal, Position **II** - fan boost. To provide a fan only option, connect a single pole single throw switch (not supplied) across the switch symbol on the unit terminal block and mount the switch external to the unit.

Should your heater appliance fail to operate please check the following: -

- Central Heating system is ON
- Boiler thermostat is set to MAX
- Room thermostat is set to MAX
- Circulating pump is ON
- Electric supply is ON
- Water temperature is over 47°C
- Isolating valves are fully OPEN

Should you then require any further assistance please contact our Freephone Technical Help Line on 0800 136120.

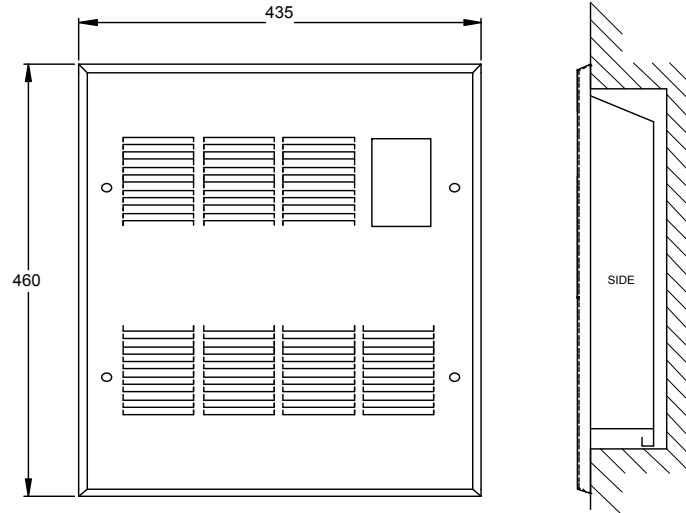
## DO NOT REMOVE THE HEATER APPLIANCE FROM THE SYSTEM.

Please note in the event of an engineer's visit, Smith's Environmental Products Ltd reserves the right to apply a call-out charge should the fault prove to be with the system or installation and not the heater appliance.



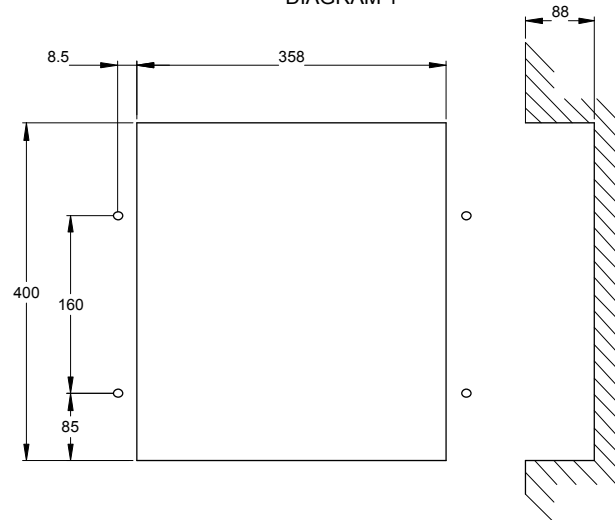
*Products with this symbol (crossed out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment must be recycled at a facility capable of handling these products and their waste by-products. If you are purchasing replacement equipment your retailer may offer a 'take back' scheme, or will be able to give details of the nearest approved authorised treatment facility. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.*

DIAGRAM 2

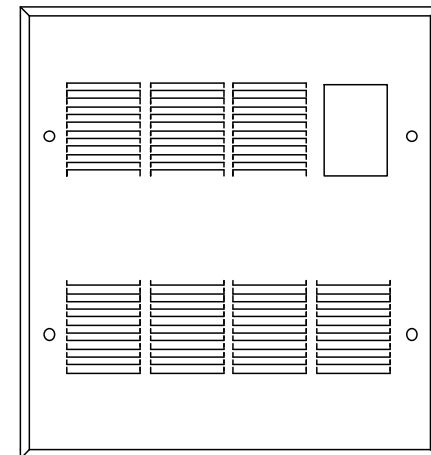


All dimensions are millimeters

DIAGRAM 1



## AWARD SFR 7 INSTALLATION & OPERATION INSTRUCTIONS



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