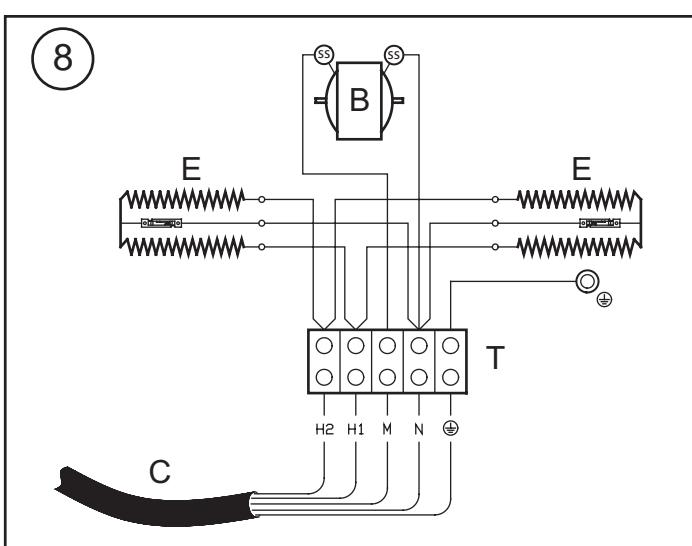
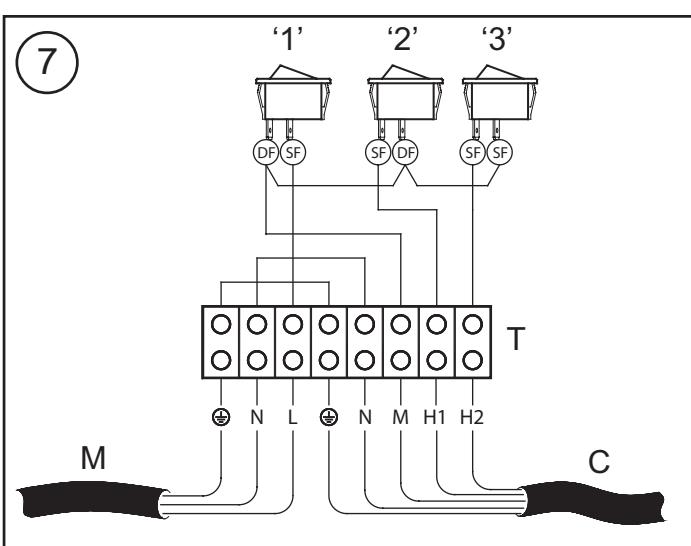
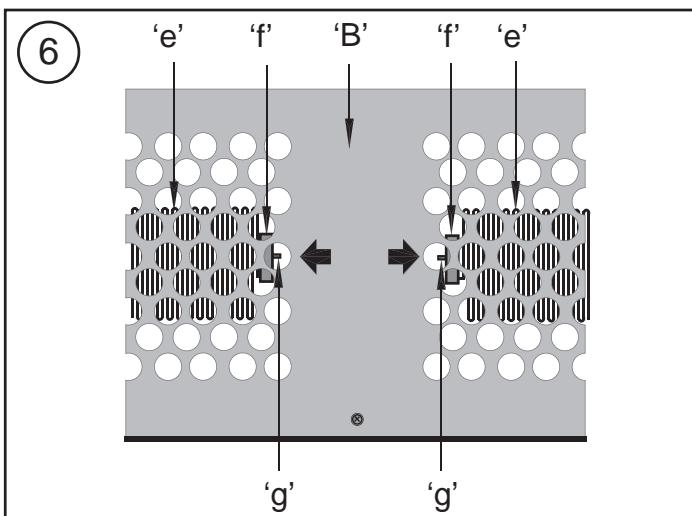
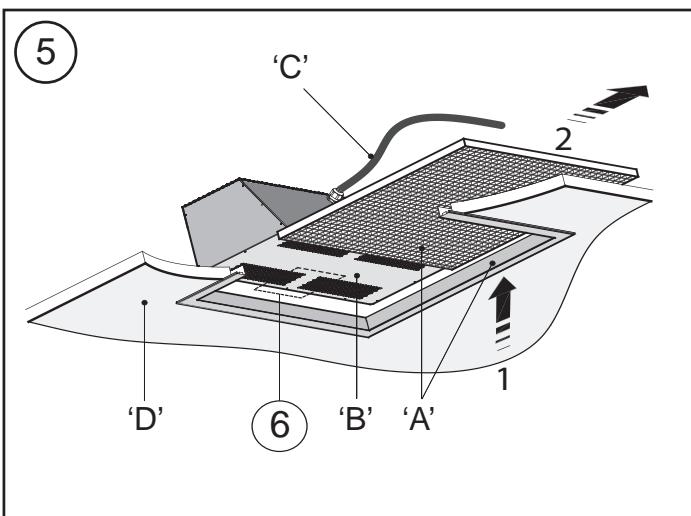
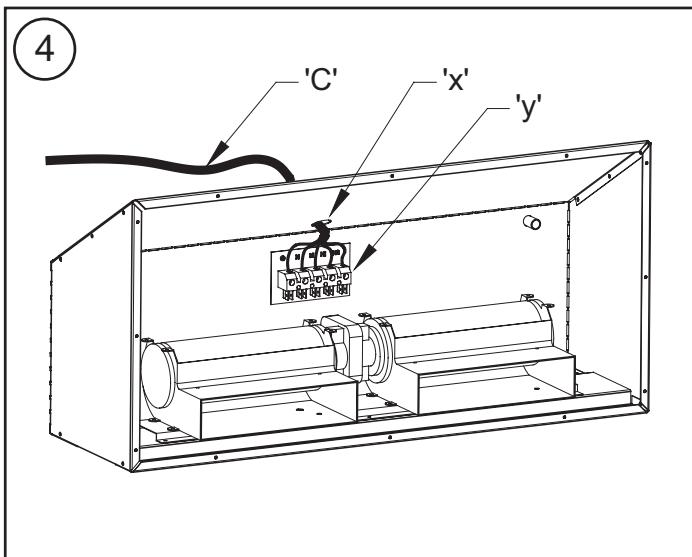
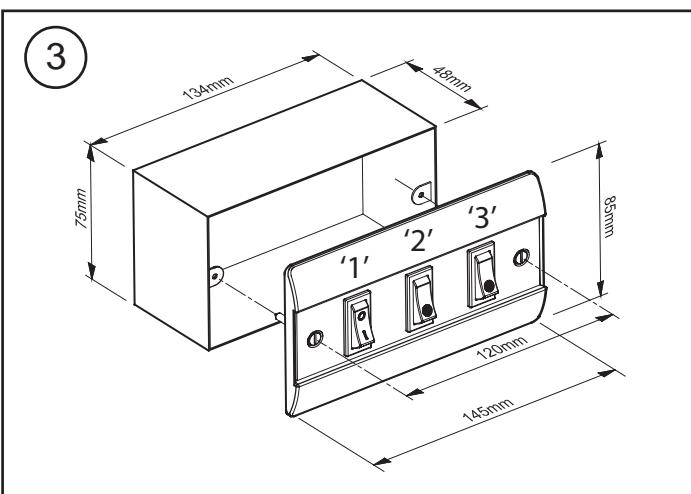
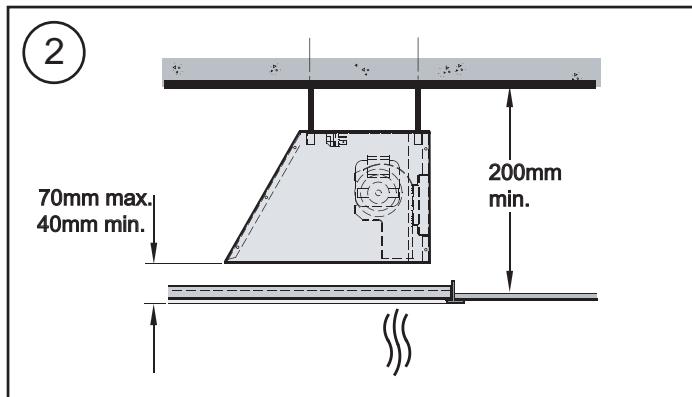
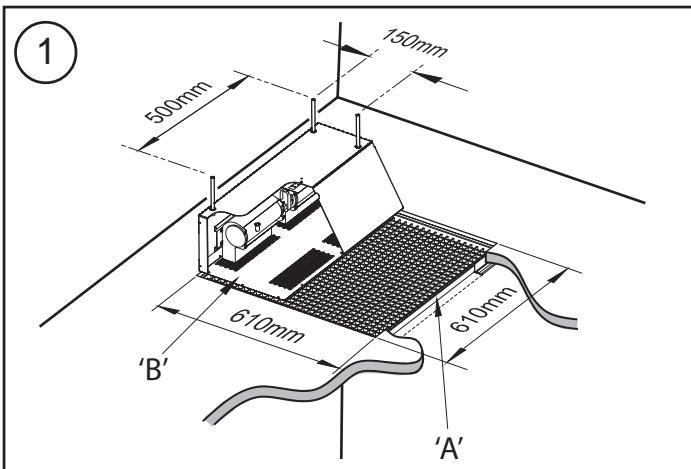


AC3CN Recessed Ceiling Heater / Over Door Heater

08/19239/0 - Issue 0



The product complies with the European Safety Standards EN60335-2-30 and the European Standard Electromagnetic Compatibility (EMC) EN55014, EN60555-2 and EN60555-3 which cover the essential requirements of EEC Directives 73/23 and 89/336



Recessed Ceiling Heater / Over Door Heater

Model: AC3CN

IMPORTANT: THESE INSTRUCTIONS SHOULD BE READ CAREFULLY AND RETAINED FOR FUTURE REFERENCE

IMPORTANT SAFETY ADVICE

Warning - Disconnect from the mains supply before carrying out maintenance.

DO NOT COVER OR OBSTRUCT the air inlet/outlet ceiling grille.

A minimum distance of 1.5 metres must be observed between the ceiling grille and any furniture, combustible material or furnishings.

ENSURE THIS PRODUCT IS EARTHED.

Ensure the supply cables are of adequate current carrying capacity and are protected by a suitable fuse.

A suitable termination to the fixed wiring of the premises must be provided adjacent to the final position of the Switch Panel.

This heater must not be located immediately above or below a fixed socket outlet or connection box.

This product must not be subjected to water spray or immersion and should be mounted such that no part of it can be touched by a person using a fixed bath or shower.

DO NOT use the heater in the immediate surroundings of a bath, a shower or a swimming pool.

DO NOT use this heater in areas where excessive dust exists.

This product should be mounted safely into ceiling areas only.

The ceiling can be either of a plasterboard (or similar) construction, or of suspended 600 x 600mm ceiling tiles.

DO NOT store or use any flammable materials or sprays in the vicinity of the heater – FIRE HAZARD.

DO NOT insert any foreign objects into the heater openings.

Risk of injury, electric shock or damage to the heater may occur.

Ensure proper manual handling procedures are observed at all times.

WARNING: Ensure power cable path does not come into contact with internal heater elements or fans.

Make connections as per wiring Diagram (see Fig. 8) and replace the base cover.

Labels	Description
B	BLOWER MOTOR
E	HEATER ELEMENT
T	TERMINAL BLOCK
C	POWER CABLE FROM SWITCH PANEL (Typically 5 core - NOT SUPPLIED)

Connection of Switch Panel

The mains electrical supply cable and power cable to this heater (neither supplied) should be connected as per the wiring diagram shown in Fig. 7 (see Fig. 3 for Switch No.'s).

Labels	Description
'1'	ON - OFF (Single Pole Switch)
'2'	HALF HEAT (Single Pole Switch)
'3'	SECOND HALF HEAT (Single Pole Switch)
T	TERMINAL BLOCK
C	POWER CABLE TO HEATER (Typically 5 core - NOT SUPPLIED)
M	MAINS IN POWER CABLE (NOT SUPPLIED)

* Test all switch settings once installation is complete *

Installation of Heater

The Installation of this product must only be carried out by a prescribed competent person in accordance with Building Regulations (Part P) and the current IEE Wiring Regulations for electrical equipment.

This heater can either be installed into a suspended or plasterboard ceiling. First it is necessary to ensure that 200mm of sufficient space exists above the ceiling for the Installation of this product (see Fig. 1 and Fig. 2).

This product is designed to be suspended by threaded rod or wires/chains. Always ensure this unit is adequately supported when installed.

Installation in a plasterboard (or similar) Ceiling

A hole (610x610mm) as indicated in Fig. 1 must be cut into the ceiling. It may be necessary to fix an internal supporting frame around the newly cut aperture in a plasterboard ceiling.

The heater can then be installed in the ceiling void as detailed in the 'Mounting of Appliance' section and on completion of 'Electrical Connection', the Ceiling grille assembly (see 'A' in Fig. 1 and Fig. 5) can then be fixed into position.

Installation in a Suspended Ceiling

A standard 600 x 600mm ceiling tile needs to be removed as close to the final position of the product as possible.

The heater can then be installed in the ceiling void as detailed in the 'Mounting of Appliance' section and on completion of 'Electrical Connection', only the supplied egg crate grille core should be fitted into position replacing the old ceiling tile.

Mounting of Heater

In order to mount the unit into the ceiling void, use lengths of threaded bar or hooks screwed into the M8 threaded inserts located in the top side of the heater (see Fig. 1 for dimensions). Adjust the height of the heater so the air inlet/outlet panel (see 'B' in Fig. 1 and Fig. 5) is positioned inside the grille frame and no more than 70mm above the installed height of the egg crate grille which allows access for future maintenance. The unit should also be positioned inside the grille opening to achieve optimum air-flow effect, as shown in Fig. 2.

General

The carton contains: -

- 1 AC3CN heater
- 1 Ceiling grille assembly (frame + egg crate core)
- 1 Switch Box

This Recessed Ceiling Heater / Over Door Heater is a robust heater intended for installation into a suspended or plasterboard ceiling.

For optimum results, do not install this product in ceilings higher than 3 metres. If multiple heaters are installed, generous spacing should be provided between heaters to achieve an even heating distribution.

Electrical Connection

The Electrical Connection of this product should be carried out by a competent electrician and be in accordance with the current IEE wiring regulations before replacing the bottom cover.

A suitable local isolating switch must be provided in the electrical supply circuit with at least 3mm clearance on each pole.

Connection of Heater

Gain access to the terminal block (see 'y' in Fig. 4) by removing the 12 screws fixing the air inlet/outlet panel (see 'B' in Fig. 1 and Fig. 5).

Remove the 'knock-out' (see 'x' in Fig. 4) from the top of the unit and feed the power cable (see 'C' in Fig. 4 and Fig. 5) into the heater using an appropriate cable gland (not supplied) to fix the cable.

Installation of Switch Panel

WARNING: The Switch Panel should not be installed in a toilet or washroom.

The backing box (standard B.S. double gang as shown in **Fig. 3**) should be rebated into a suitable wall. The box should be fitted so that the switch panel will be flush with the wall. Suitable conduit should be used where applicable to carry the cable between the heater and the switch panel.

The cable used to connect the heater to the switch panel should have sufficient cores to allow connection as per the enclosed wiring diagrams.

Operation of Switch Panel

Switch on electrical supply (MAINS IN) to the Switch Panel.

Switching the switch marked 'I' (see '1' in **Fig. 3**) energises the fan and switches on the electrical supply to the heater.

The heat selection switches allow heat settings to be chosen as shown below:

Settings -	I	Fan Only
	I + ●	1/2 Heat
	I + ● ●	Full Heat

The desired setting can be obtained through switch selection.

Maintenance

WARNING: ALWAYS DISCONNECT HEATER FROM THE POWER SUPPLY BEFORE ATTEMPTING ANY MAINTENANCE.

Thermal Safety cut-out(s)

The power supply to the heating elements will be interrupted if one or a combination of the following abnormal events occur:

1. Air inlet/outlet panel is obstructed.
2. Internal ventilation is impaired due to build up of dust and fluff.
3. Blower unit stalls.

Note : If the cut-out operates, the fan may continue to run impairing the performance of the heater. The heater must be turned off immediately and the cut-out(s) reset following the 'Procedure for resetting cut-out(s)'.

Procedure for resetting cut-out(s)

Establish cause and eliminate.

You need to reset thermal cut-out(s), located behind the Air Inlet/Outlet panel (see 'B' in **Fig. 5** and for detail view see **Fig. 6**).

To access the Air Inlet/Outlet panel of the heater you must remove the grille core out from its frame, by first lifting up and then sliding to one side - see steps 1 & 2 in **Fig. 5**.

To reset the thermal safety cut-out, press the black reset button (see 'g' in **Fig. 6**) on the side of the cut-out (see 'f' in **Fig. 6**) as described in steps 2 - 4 :-

Steps to reset cut-out(s)

1. Disconnect power supply.
2. Pass small flat head screwdriver through Air Inlet/Outlet panel 'B' to button side of cut-out (see 'g' in **Fig. 6**) avoiding contact with element (see 'e' in **Fig. 6**).
3. Press reset button in direction shown in **Fig. 6** to reset cut-out. (Cut-out clicks when reset)
4. Remove screwdriver carefully.
5. Turn on supply.

If the cut-out continues to operate intermittently, the heater should be switched off and a service agent contacted.

Cleaning of Heater / Switch Panel

Internal and grille appearance can be maintained by occasionally vacuuming or wiping with a light duster. External appearance of the Switch Panel can be maintained by wiping occasionally with a light duster or for stain removal, a weak soap solution can be applied with a cloth and the surface wiped dry.

Note: Care must be taken to avoid any moisture ingress into the switch panel.

After Sales Service

Your product is guaranteed for one year from the date of purchase.

Within this period, we undertake to repair or exchange this product free of charge provided it has been installed and operated in accordance with these instructions.

Your rights under this guarantee are additional to your statutory rights, which in turn are not affected by this guarantee.

Should you require after sales service you should contact our customer services help desk on 0870 727 0101. It would assist us if you can quote the model number, series, date of purchase, and nature of the fault at the time of your call. The customer services help desk will also be able to advise you should you need to purchase any spares.

Please do not return a faulty product to us in the first instance as this may result in loss or damage and delay in providing you with a satisfactory service.

Please retain your receipt as proof of purchase.



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