

# INSTALLATION INSTRUCTIONS

**CRA100T**

**Continuous Running Axial Fan**

**Switch off mains supply before making any electrical connections.**

**Installation must be supervised by a qualified electrician.**

**This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory and mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved.**

**Children shall not play with the appliance.**

**Cleaning and user maintenance shall not be made by children without supervision.**

**Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other open-fire appliances when mounted in outside windows or walls.**

**Fan must be disconnected from electrical power before any maintenance is carried out.**

## **Location**

1. When installing fan through an external wall, an external wall grille must be fitted at all times.
2. For best results this Extractor Fan should be fitted as high on the wall as possible, or if preferred, on the ceiling. Note: Pullcord models should not be installed in a ceiling.
3. When installing **Humidity** or **Timer** fans ensure the electronic circuit board is at the top of the fan.
4. Do not install the unit within a shower cubicle or anywhere else where there is a risk of being sprayed with water (Please see our range of showerfans for these installations.).
5. If the fan is installed in a room containing a fuel burning appliance, the installer must ensure that the air replacement is adequate for both the fan and the fuel burning appliance.

## **Wiring**

1. Switch off mains supply before making electrical connections. If in any doubt contact a qualified electrician.
2. These units are for fixed wiring only. A flexible cord must not be used. All wiring must be fixed securely and the cable to the fan should be a minimum of 1mm<sup>2</sup> in section. All wiring must comply with current I.E.E. Regulations or local regulations if outside the UK.
3. A double pole fused spur having contact separation of at least 3mm in all pole must be used and fitted with a 3A fuse.
4. This fan is double insulated and does not require an earth connection.
5. The fan should not be accessible to a person using either the shower or the bath.

## IMPORTANT: READ THESE INSTRUCTIONS BEFORE COMMENCING THE INSTALLATION

DO NOT - install this product in areas where the following may be present or occur:

- Excessive oil or a grease laden atmosphere.
- Corrosive or flammable gases, liquids or vapours.
- Ambient temperatures higher than 40°C or less than -5°C.
- Possible obstructions which would hinder the access or removal of the Fan.

### SAFETY AND GUIDANCE NOTES

1. When the Fan is used to remove air from a room containing a fuel-burning appliance, ensure that the air replacement is adequate for both the fan and the fuel-burning appliance.
2. The Fan should not be used where it is liable to be subject to direct water spray for prolonged periods of time.
3. Where ducted Fans are used to handle moisture-laden air, such as a bathroom, a condensation trap should be fitted in any vertical exhaust ducts. Horizontal ducts should be arranged to slope slightly downwards away from the Fan. Ducts passing through cold voids must be suitably insulated.
4. This product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.

### DESCRIPTION

The Continuous Running Axial 100mm fan is a continuously running extract fan for kitchens, utility rooms, bathrooms and toilets. It has an 8L/s trickle speed and 15L/s boost, the fan is fitted with a fixed 15 minute overrun timer.

### A. INSTALLATION

#### PANEL/CEILING MOUNTING

1. For panel/ceiling mounting the fan should be installed into a closed duct system of at least 1.2m long or protected by an exterior air grille that must comply with the standard requirements of your country to prevent access to the fans impeller.
2. Cut a 105mm diameter hole.
3. Loosen the screw at the bottom of the grille and remove the front grille. Mark the screw centres through the holes in the fan back plate. Drill, plug and screw into position.
4. Attach ducting as required for the installation.
5. Wire the fan as described in the Wiring section.
6. After installation, ensure impeller rotates freely.
7. Replace the grille and tighten the retaining screw.

#### WALL MOUNTING

1. For wall mounting cut a 115mm diameter hole through the wall and insert the wall sleeve. Slope the sleeve slightly downwards away from the fan. Cut to length and cement both ends into position flush with the wall faces.
2. Loosen the screw in the bottom of the grille and remove the front grille. Mark the screw centres through the holes in the fan back plate. Drill, plug and screw into position.
3. Fix exterior grille into position with the louvres positioned downwards. (Note:- The grille must comply with the standard requirements of your country to prevent access to the fans impeller).
4. Wire the fan as described in Section B-Wiring. Adjust any settings as required (see Section C-Setup).
5. After installation, ensure impeller rotates freely.
6. Replace the grille and tighten the retaining screw.

## B. WIRING.



WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

- The cross - sectional area of supply cord used should be ranged from 1 - 1.5mm<sup>2</sup>.
- Cable entry can only be made from the rear of the fan.
- The extraction fan is suitable for connection to 220-240V 50Hz supply.
- The fan is a class II double insulated product and MUST NOT be earthed.

1. Select and follow the appropriate wiring diagram. (Fig. 1, 2 & 3)

2. Check all connections have been made correctly and ensure all terminal connections and cable clamps are securely fastened.

### Two Wire systems

Fig.1 Continuous trickle (8 L/s) with no remote boost facility. Link Switched Live terminal to Neutral terminals.

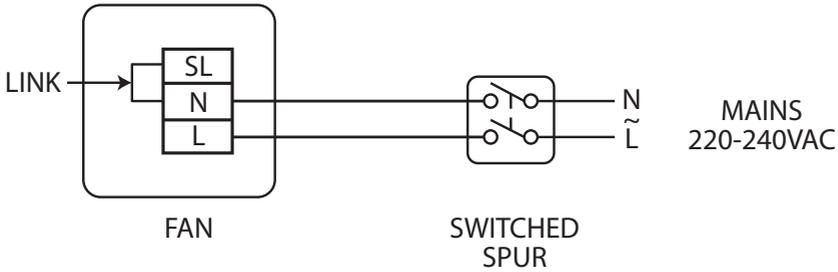
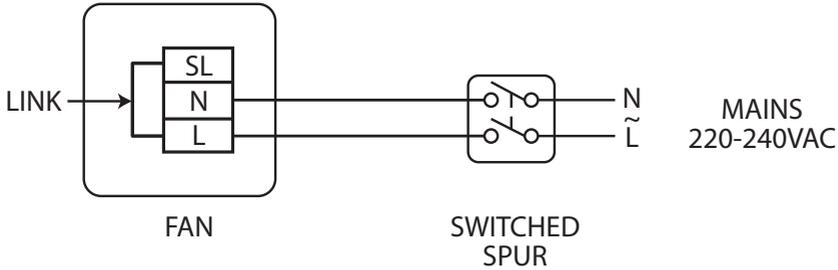
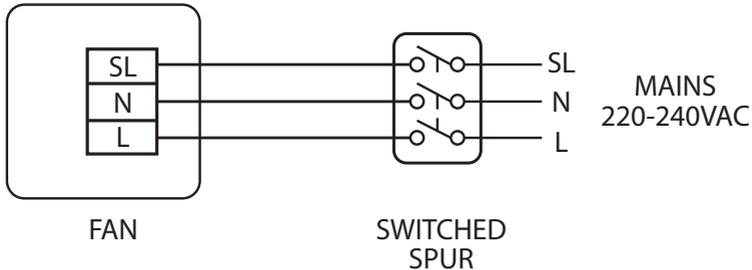


Fig.2 Continuous Boost (15 L/s) with no trickle facility. Note:- Link must be fitted between Live & Switched Live terminals.



### Three Wire Systems

Fig.3 Continuous trickle (8 L/s) with boost facility (15L/s) via remote switch.

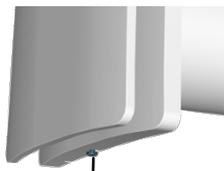


### C. SETUP



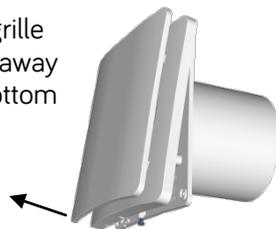
**WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE**

Accessing the wiring and control settings – (Fig. 5)

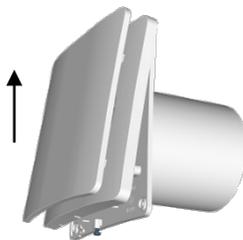


1. Loosen screw.

2. Pull grille slightly away from bottom edge.



3. Push grille upwards until clear from the fan chassis.



### SERVICING AND MAINTENANCE.

**WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING MAINTENANCE.**

1. At intervals appropriate to the installation, the fan should be inspected and cleaned to ensure there is no build up of dirt or other deposits.
2. Carefully push the front panel of the grille upwards away from the base part of the grille (Fig. 5). Wipe the inlets and front face with a damp cloth until clean.

The fan has sealed for life bearings, which do not require lubrication.



PLEASE DISPOSE OF  
USED FAN AT YOUR  
LOCAL CIVIC AMENITY  
SITE. DO NOT DISPOSE  
IN DOMESTIC WASTE

