

# Installation Instructions

## CDF De-stratification fan unit

Reference  
J394a

### SAFETY

The correct procedures for working at height must be adopted when installing this fan unit.

The fan unit must be installed by a suitably qualified person in accordance with current regulations.

### CONTENTS

Remove from carton and check for possible damage. Ensure all packing material is removed and inlet/outlet grilles are clear.

### LOCATION and MOUNTING

The fan unit should be mounted at approximately one metre below the highest point of the roof. Multiple units should be spread around the area avoiding columns, beams and light fittings which may disrupt the airflow. They should be positioned to give as even an air distribution as possible.

The unit is provided with eye bolts to allow suspension from chain or wire rope. It is important to check that the structure and fixings are substantial enough to take the weight of the unit. It may also be appropriate to make provisions for cleaning and servicing the unit.

### ELECTRICAL CONNECTIONS.

The Heater should be installed in accordance with the latest edition of the IEE Regulations for Electrical Installations (BS 7671 :2001) by a suitably qualified person.

All units are for 230V operation and should be connected via a suitably fused and isolatable power supply. Connection should be via a 2 pole switched connection unit having a contact separation of at least 3mm in all poles.

The unit is pre-wired and only requires connection to the incoming supply.

- 1) Remove the two fixing screws from the fan motor connection box cover.
- 2) Thread the appropriately sized flexible cable through the cable grip.
- 3) Using M4 ring connectors, connect the live and neutral wires to terminals **U6** and **U1** respectively and the earth wire to the earth stud within the terminal box. (See Circuit diagram overleaf)
- 4) Tighten cable grip to securely fix cable.
- 5) Replace the connection box cover.

If Fan speed controllers are to be used refer to the Fan speed controller installation instructions for the connection details.

**WARNING: THE UNIT MUST BE EARTHED.**

### COMMISSIONING

The CDF unit is fitted with an integral thermostat which should be set at 2-3 °C above the required building temperature.

Double deflection louvres are fitted to spread the airflow when the fans are mounted below recommended mounting heights. They should be adjusted to give an acceptable airflow at floor level with an even spread. Optional fan speed controllers can be fitted to give even greater control of the airflow and noise level.

The CDF-SC controllers allow variable speed control of individual fans, CDF-SC3 for CDF-315 and 400 and CDF-SC5 for CDF-450



