Routine Inspection/Maintenance

THIS MUST BE UNDERTAKEN BY A COMPETENT PERSON

ISOOLATE UNIT FROM ELECTRICAL SUPPLY AND ENSURE THAT IT CANNOT BE ACCIDENTALLY TURNED
BACK ON.

For additional safety during maintenance a SERVICE SWITCH is provided on the fan terminal box.

NOTICE: This is not an isolating switch and should not be used to start or stop the fan.

1. We recommend that after three months the fan should be inspected and cleaned to ensure there is no build
up of dirt or other deposits on the impeller or motor. Thereafter, it should be checked and cleaned periodically
as experience dictates, or at least twice a year. Please take care not to dissolve any balancing weights fitted
on the fan blades.

If the fan is handling dust laden air, we recommend that a filter is fitted to the system (suitable filters are
available from Vent-Axia Ltd.).

2. All Vent-Axia Access Fans are fitted with sealed for life bearings and therefore do not require any lubrication.

3. Check all fasteners and guards are secure.

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SAFETY INSTRUCTIONS FOR AIR MOVING EQUIPMENT

Air moving equipment may present mechanical, electrical or noise hazards. To minimize risks associated with these
potential hazards, it is essential that safety, installation, operation and maintenance instructions are followed.

Implementation of these instructions should always be undertaken by technically competent personnel.

Potential mechanical hazards must be eliminated by guarding against access to the rotating parts whilst the air moving
equipment is operating. A range of guards are available for this purpose from Vent-Axia.

Installation work, both mechanical and electrical, must be undertaken in accordance with the safety and installation
instructions before switching on the unit.

Maintenance work should not be attempted before first switching off and isolating the fan and its control from the electrical
supply and ensuring that it cannot be accidentally turned back on again. It is essential to ensure that rotating parts have
come to rest before maintenance work commences.

Air moving equipment may generate unacceptable noise levels when in operation. Actual sound levels are indicated in the
Vent-Axia industrial catalogue for each product and it may be necessary to take appropriate action to reduce sound levels.

A range of products are available for this purpose from Vent-Axia.

IMPORTANT - READ THESE INSTRUCTIONS FULLY BEFORE COMMENCING INSTALLATION

On receipt of the fan, check the following: -

a. That the type and size of the fan is correct for the application.

b. That the details on the rating plate are appropriate for the application, including: Voltage, Frequency,
   number of Phases (1 or 3) and Speed.

PLEASE LEAVE THESE INSTRUCTIONS FOR THE END USER
Description
Both the Mixed Flow and Centrifugal Roof fans are designed as roof extract ventilators. They are supplied fully assembled and ready for installation and incorporate a service isolator.

The mounting plate is moulded with a fixed bellmouth to ensure optimum efficiency and precise alignment. The weatherhood is also moulded to produce a smooth internal surface and has a tough UV resistant external finish. All models are equally suitable for flat or inclined roofs and are suitable for kerb or purlin box mounting.

The fan is capable of handling air temperatures up to 40°C continuously.

Transport and Handling
The fan units should be transported horizontally and only lifted by the base.

Removal From Transit Packing

Details for Purlin Mounting

Details for Kerb Mounting

Electrical Connections

**IMPORTANT**
- **THIS EQUIPMENT MUST BE EARTHED.**
- **MAINS SUPPLY MUST BE ISOLATED BEFORE MAKING CONNECTION.**

**CONNECTION TO MAINS SUPPLY MUST BE IN ACCORDANCE WITH CURRENT I.E.E. WIRING REGULATIONS, BS 5796, LOCAL BUILDING AND FACTORY REGULATIONS, OR APPROPRIATE STANDARDS IN YOUR COUNTRY.**

**EQUIPMENT SHOULD BE INSTALLED:**
- **WITH A CONTACT SEPARATION OF AT LEAST 3MM AND SUITABLE SIZED FUSES OR CIRCUIT BREAKERS.**
- **IT IS RECOMMENDED THAT WIRING TO THE UNIT BE MADE IN FLEXIBLE CONDUIT TO FACILITATE MAINTENANCE.**

**ENSURE SAFETY REGULATIONS AND PRACTICES ARE ADHERED TO WHEN INSTALLING AND USING THIS EQUIPMENT.**
- **THE MOTOR THERMAL PROTECTOR (TK) MUST BE CONNECTED INTO THE CONTROL CIRCUIT.**

**WIRING INSTRUCTIONS:**
WARNING: ISOLATE MAINS SUPPLY BEFORE MAKING CONNECTION.

Ensure switch is in the 'OFF' position. Remove lid of isolator and connect unit in accordance with wiring diagrams. Ensure that the earth connection has been made. Ensure that any motor thermal protection switch is connected into the circuit.

After making wiring connections, check that they are all correct and secure, and replace lid ensuring all screws, nuts and glands are adequately tightened to prevent the ingress of dirt and moisture.

When wiring in conjunction with a speed controller, see instructions supplied with controller.

**NOTES ON RUNNING**
Before switching on CHECK:
- Control unit and motor/fan are secure.
- All relevant guards and covers are fitted.
- Earth connections have been made and are secure.
- Switch on mains

***Note***
A final connection should be made to check that the direction of fan rotation is correct. If incorrect interchange any two phases of the three phase supply.