Routine Inspection/Maintenance
THIS MUST BE UNDERTAKEN BY A COMPETENT PERSON ISOULATE UNIT FROM ELECTRICAL SUPPLY AND ENSURE IT CANNOT BE ACCIDENTALLY TURNE

ON.

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

TO: This is no 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 that there is no build up of dust or other deposits on the impeller or motor. Thereafter, it should be checked and cleaned periodically at the intervals stated, or at least twice a year. Please take care not to dislodge 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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This product is manufactured in accordance with the requirements of the following European Directives:

SAFETY INSTRUCTIONS FOR AIR MOVING EQUIPMENT
Air moving equipment may present mechanical, electrical or noise hazards. To minimise 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.

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 weatherproof 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 pentum box mounting.

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

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

Removal From Transit Packing

Mounting
Each fan is supplied and assembled ready for installation. For easy and quick mounting, the following points are important:

1. The fan should be installed with its base plate mounted securely to either a cool kerb or pentum box. When fixed to a kerb made of concrete, bricks or wood, make absolutely sure that the surface on which the fan is to be mounted is clean and level. In order to ensure an airtight fit, use a seal of non-corrosive material.
2. When mounting on a pentum box note that trimmers (not supplied) will be required between pentums.
3. Study details in the diagrams showing the two alternative methods of mounting.
4. Place the fan on the kerb or pentum. Tighten both screws evenly and not too hard in order to prevent deformation of the base. Check by hand that the impeller runs smoothly and without fouling.
5. If the fan inlet is less than 2.5m high, a suitable guard must be fitted.

Details for Purlin Mounting

Details for Kerb Mounting

Electrical Connections

IMPORTANT
- THIS EQUIPMENT MUST BE EARTHE D.
- MAINS SUPPLY MUST BE ISOLATED BEFORE MAKING CONNECTION.
- CONNECTION TO MAINS SUPPLY MUST BE IN ACCORDANCE WITH CURRENT I.E.E. WIRING REGULATIONS, BS 7671, LOCAL BUILDING AND FACTORY REGULATIONS, OR APPROPRIATE STANDARDS IN YOUR COUNTRY. THE EQUIPMENT SHOULD BE PROVIDED WITH AN ALL-POLE ISOLATOR SWITCH HAVING A CONTACT SEPARATION OF AT LEAST 3MM AND SUITABLY SIZED PUSES ON 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, replace lid ensuring that 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.