OPERATING AND MAINTENANCE INSTRUCTIONS

TWIN FAN EXTRACT DIRECT DRIVEN UNITS – RUN & STANDBY

DESCRIPTION

All units are manufactured to a very high standard.

The casing, internal fan plates, lid, and spigots are manufactured from 18 swg or 16 swg zintec steel plate. The units are finished in a polyester powder coat to RAL 9005 satin black. Weatherproof units are RAL 5017 gentian blue. Plain Zintec or galvanised panels are available.

The supply and extract fans are of the double inlet, direct drive centrifugal type, fitted with single phase motors to class E insulation. They are sized to suit the duty required, with allowances for internal pressure drop within the unit. The extract air section is insulated with 25mm thick Pyrosorb-S, class 0 insulation, this has moderate noise absorption qualities and excellent anti-condensation properties.

OPERATION

The Twin Fan units generally require a 240 V ac single phase supply. Where specified, a 380/415 V ac 3 phase and neutral supply may be required, (check serial plate on side of unit or sales literature).

Each unit is provided with cable entry glands and suitable terminal block. This is wired through a mains isolator switch.

Internal speed control devices for each fan are available, to commission fan airflow duties, when required.

All Twin Fan Extract units require a Puma auto changeover panel to operate correctly.

When energised, the selected fan will run as the duty fan. If the fan fails, then an airflow switch automatically switches on the standby fan and illuminates a fan fail, (red), light on the auto changeover panel. See data sheet on auto changeover panels for differences in the basic and deluxe panel models. The Duty fan can be manually selected by the fan selector switch on the auto changeover panel.

INSTALLATION

Unit 6, Viscount Court, Walworth Business Park, Andover, Hampshire SP10 5NW, England
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Email: sales@pumaproducts.co.uk Website: www.pumaproducts.co.uk

The unit must be situated in a position with sufficient access to the removable panel/s, to allow for access to the serviceable components.

The units are suitable for floor mounting on 'tico' pad or anti-vibration isolators, if required (by others). Flexible connections may be required between spigot connections and solid ductwork to prevent vibration transmission to the building structure.

Twin Fan Extract units are available as weatherproof versions (denoted WTFE). Anti-vibration isolators are recommended when installed on flat roofs.

SERVICE AND MAINTENANCE

The mains supply to all units must be disconnected at source before removing the lid.

The Airflow Failure Switches should be checked for free movement and electrical conductance.

These fans are fitted with direct drive motors with sealed for life bearings that require no maintenance.

Refer to Puma colour technical sales leaflet for further information regarding dimensions, weights and unit performance and fan curves.

FAULT FINDING

FAN/MOTOR FAILS TO RUN

1. Check the unit is connected correctly, as the wiring diagram supplied.
2. Check the mains supply and mains isolator.
3. Check the fan fuse, located below the Isolator.
4. Check the Shutdown Relay (SR) link fitted between terminals L1 & L2 or SR1& SR2.
5. Is there a voltage at the fan? Yes, would indicate motor failure or a neutral/phase problem.

Most faults/problems can be resolved by following the above. If the unit still fails to work correctly, please contact sales for technical assistance.

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