



OPERATING AND MAINTENANCE INSTRUCTIONS

FIRE EXTINGUISHANT EXTRACT UNITS - SERIES 200-550 DIRECT DRIVEN (DD)

DESCRIPTION

All units are manufactured to a very high standard. A double inlet, single phase centrifugal fan is selected to meet the required performance. The fan is fixed directly to the fan plate located in the main casing.

The casing, internal sections and lid are manufactured from 18, 16 or 14 SWG mild steel plate. The unit is finished in a polyester powder coat paint to RAL 9005 Satin Black. Weatherproof or external units are finished in to RAL 5017 Gentian blue

Both intake and discharge ends of the unit are internally flanged, and fitted with M6 nutserts. These are for connection to the Puma telescopic duct and external weather louvre. The room air intake end is fitted with a 1/2" square weld mesh as a finger guard.

The Fire Smoke Damper (FSD) is fitted to the air discharge end. The damper should be located as close as possible to the wall cut-out, this will maintain the fire integrity of the wall. The fire rating is 2 hours tested to BS EN 1634 - 1 : 2008.

OPERATION

The extract unit requires a 230 V ac single phase supply or, a 380/415 V ac three phase supply. This supply will normally be interlocked with the fire detection system in relation to power shutdown in the event of fire detection. The extract fan is connected in parallel with the Fire Smoke Damper.

The Fire Smoke Damper commences opening immediately, is fully open in 75 seconds, and will 'spring return' on power failure, and shut in approximately 20 seconds.

INSTALLATION

The unit must be installed with sufficient access to the top of the unit, as access to the serviceable components is via the flat plate lid.

The clearance height is not necessary when the units are located underneath raised modular floors as it is assumed that the appropriate floor tile/s are accessible and removable.

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

The unit may be suspended or supported by correctly sized anti-vibration isolators, if required (supplied by others).

SERVICE AND MAINTENANCE

Periodically, the extract unit must be electrically tested to ensure that the supply to the unit is continuous.

The Airflow Failure Switch, (AFS) should be checked for free movement and electrical conductance.

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

FAULT FINDING

FAN FAILS TO RUN

The extract unit is normally wired directly to the fire detection panel.

If the fan fails to run, check the panel supply and control circuit first.

1. Check there is a voltage at the fan terminal block inside the unit.
2. Check all connections.
3. If the fan still fails to run, check the motor winding continuity.

NOTE

Most faults/problems can be resolved by following the above.
If the unit still fails please contact Puma Products Ltd for technical assistance.



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