PUMA FIRE

OPERATING AND MAINTENANCE INSTRUCTIONS

AIR MAKE UP DAMPERS (A.M.D) ALL UNITS

GENERAL DESCRIPTION

Air Make up Dampers (AMD), are designed to provide replacement air to the protected space whilst extracting gaseous extinguishant via a Puma gas extract unit. Refer to drawing No. COMMS 001.

The damper should be located as close as possible to the wall aperture. This will maintain the fire integrity of the wall. The fire rating of the fire smoke damper is 2 hours, tested to BS EN 1634.1:2008.

The casing and blades are constructed from galvanised steel. 25mm external flanges are fitted as standard, 50mm flanges are available upon request. Optional circular / rectangular spigot connections are also available on request.

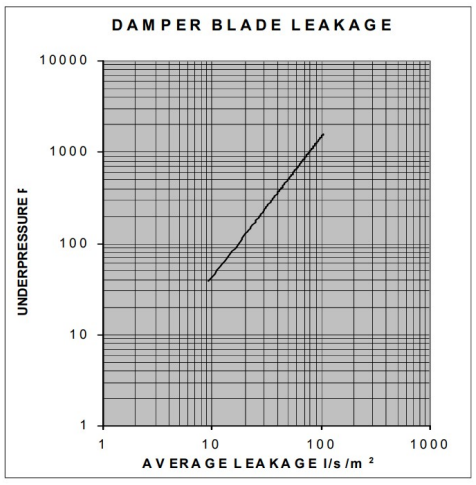
External Walls require a Telescopic Duct (TD) and Weather Louvre (WL).

Internal Walls require a Wall Sleeve (WS) and Egg Crate Grille (ECG).

The blades are fitted with high temperature silicon blade seals. They have a leakage performance of 53 ltr/s/m2 @ 250 Pa to 103 ltr/s/m2 @ 1000Pa.

All Dampers are available with a fusible link rated at 75˚C, electro thermal link or pneumatic actuators. HEVAC installation frames for masonry walls are available.

Compliant to BS EN 1366-2 with regards to leakage rates not exceeding 200m³/hr/m².



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DAMPER MOTOR

This motor type is 'powered open' and will 'spring return' on power failure. The mains supply must be interlocked with the Puma FE gas extract unit to open simultaneously.

The damper motor is a fully sealed unit and is provided with 1.5m mains supply cable. The motor is factory fitted to the damper casing to prevent any movement of the motor during operation.
Any tampering of the motor seal or cable will invalidate warranty.

In the event of a fire condition, the damper motor will commence opening and be fully open in 75 seconds. When power is removed, the damper will shut in 20 Seconds.

INSTALLATION

The fresh air make up damper is to be installed directly to the face of the wall using self-tapping screws or raw plugs and sufficient fixings, depending on the wall construction. Before fixing the damper to the wall, ensure the flange is lined with fire-rated sealant to allow for a tight seal between the wall and the damper.

SERVICE & MAINTENANCE

The Damper and motor require no service as such, but a periodic mechanical and electrical test of the working mechanisms should be carried out at least twice yearly, or to coincide with existing service and maintenance contracts.
See appropriate certified drawing of units for further information re: sizes etc.

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