



Air Control Dampers

Painted Damper 100LE/165LE



- Powder coated or painted for appearance or corrosion resistance.
- Low leakage dampers for flow control/shut off applications
- Blade seals and stops for leakage rates less than 5%
- Aerofoil section blades for low air flow resistance.
- Available with 100mm or 165mm blade widths
- Fully enclosed external gears allow 100% coating.
- Nylon bearings ensure maintenance free long life
- Opposed blade operation for progressive air control

100L

- Blade width 100mm
- Casing Depth 120mm
- Maximum Module Size:
 - Width(A)mm 1000mm
 - Height(B)mm 1000mm
- Operating temperature -40°C to +80°C max

165L

- Blade width 165mm
- Casing Depth 185mm
- Maximum Module Size:
 - Width(A)mm 2000mm
 - Height(B)mm 2000mm
- Operating temperature -40°C to +80°C max

Casing

The damper frame of 1.2mm galvanised steel is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly. The casings are fitted with top and bottom stops to limit blade rotation to 180° and reduce leakage in the closed position.

Blades

Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm galvanised steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm galvanised steel stub shafts. Blade edge seals in Neoprene rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

Operation

External aluminium gears ensure positive operation and closure of the damper.. The gears are fully enclosed in a sealed casing to allow coating of both internal and external surfaces of the damper without interfering with the operating mechanism.

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Bearings

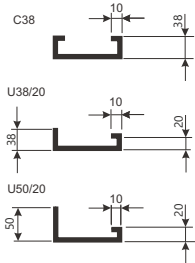
High temperature brass bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. Brass bearings are suitable for working temperatures up to 250°C.

Seals

Blade edge seals and top and bottom stops reduce leakage through the damper blades to less than 5% depending on flow rates and pressure. Consult graphs for specific performance data.

Flanges

Three standard flange profiles are available as follows:



In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation

Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.

