High Temperature Tunnel & Metro Damper

4.3 Type CFD-02T

SPECIFICATION

Casing

The damper casing is formed from 3.0 mm thick sheet steel into a rigid channel section to ensure proper alignment of blades and shafts. Damper units in excess of 1275 mm width or height shall be manufactured as a multiple assembly. Where circular dampers or dampers with width or height dimensions less than 150 mm are required,

additional spigot adaptors are used which increase the damper insertion length from 300 to 400 mm.

Blades

The blades are a formed double-skin aerofoil section of 2.0 mm sheet metal.

Blade stops at the top and bottom of the casing and sprung side seals provide excellent low leakage characteristics.

Shafts

Stub shafts Ø 19.05 mm with stub type intermediate shafts and continuous drive shafts. The blades are plug welded at each end.

Linkage

Opposed or Parallel action linkage consisting of drive levers connected by flat bar link bars, driven Through stainless steel pins. All linkage is contained within the depth of the damper casing.

Bearings

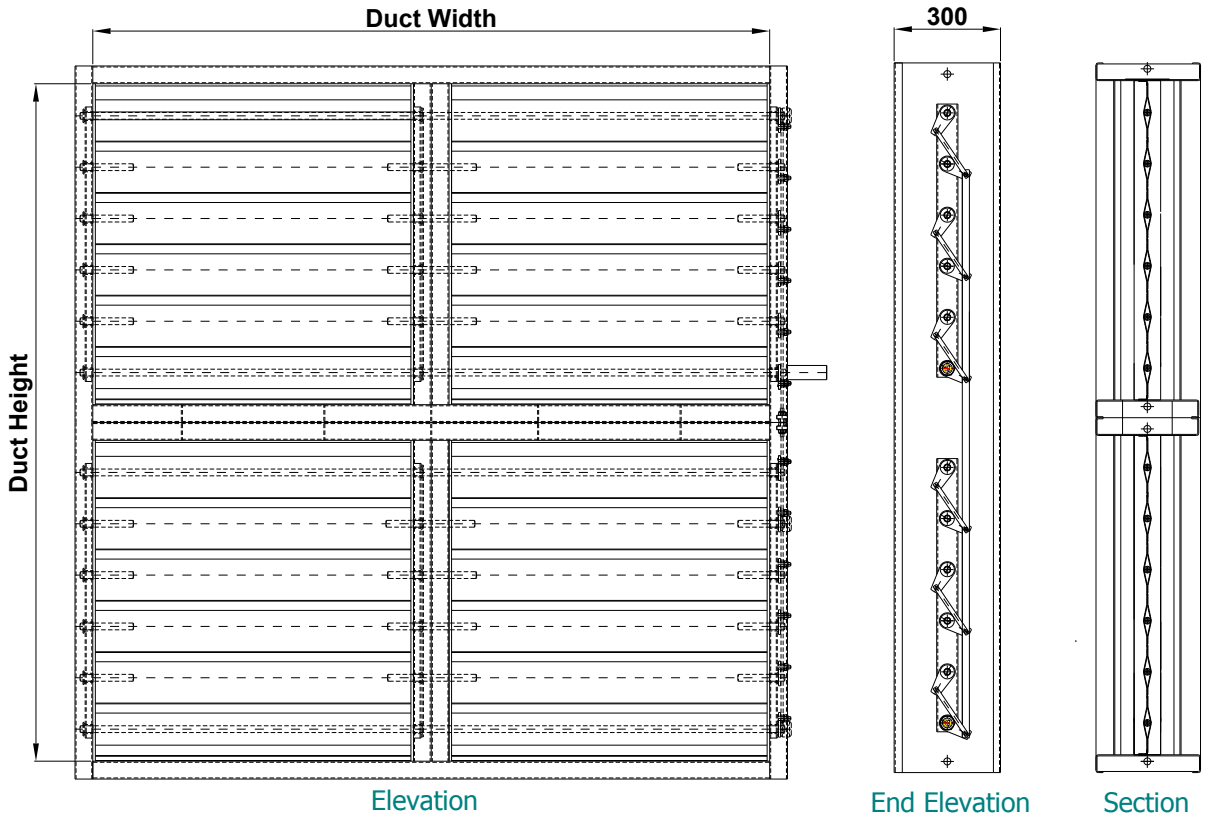
Phosphor bronze self lubricated 'Oilite' flanged bushes.

Operation

Double Acting or Spring return (Electric or Pneumatic) Or manual gearbox

Options

Materials can be stainless steel, galvanized mild steel or other materials to suit the clients' specific requirements.
Other variations to suit clients' specific requirements are also available.



Elevation | End Elevation | Section

4.3.1 Type CFD-02T

High Temperature Tunnel & Metro Damper

High Temperature Tunnel Damper

DESCRIPTION

The type CFD-02T High temperature tunnel damper has been designed for bolting directly Onto walls and floors or bolting or welding to steel support frames. The damper has been successfully Tested and operated up to 400°C for 2 hours. To ease installation these dampers can be supplied with pre-drilled flanges and mounting frames.

When any damper projects are initially proposed It is imperative that all relevant technical data Is available for the purpose of quoting the correct Equipment.

The following information will be required:

i) Volume air flow in m^3/s.
ii) Maximum temperature in °C.
iii) Electrical supply if applicable.
iv) Pneumatic supply if applicable.
v) Static pressure in Pascals.
vi) Expected leakage in m^3/s.
vii) Expected damper free area in m^2.

INSTALLATION AND ASSEMBLY

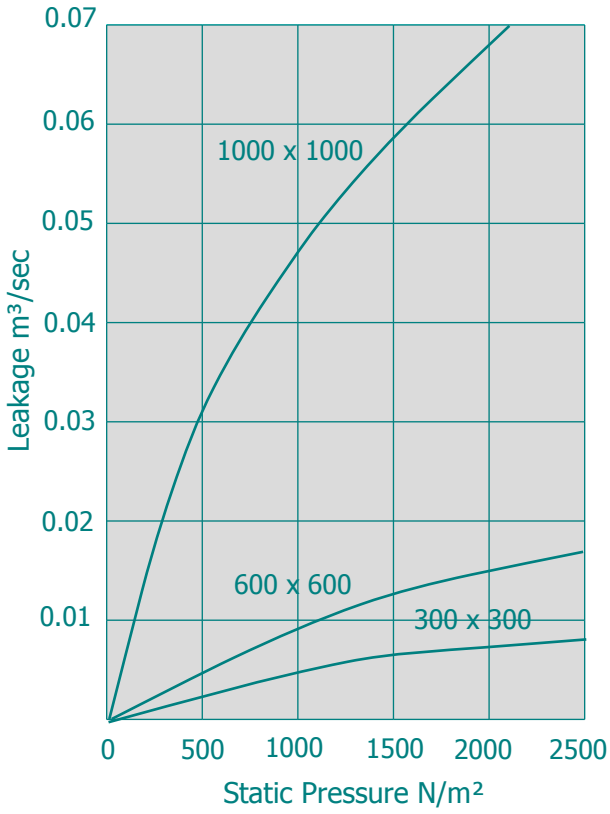
Larger dampers can be constructed by joining multiple assemblies together.

An approved fire-resistant sealant should be inserted between the damper and duct to ensure a good seal.

Each section shall have a drive spindle which can be linked together externally or driven independently.

LEAKAGE CHARACTERISTIC CURVE

Tolerance ±15%



OPEN PRESSURE DROP CHARACTERISTIC CURVE

Tolerance ±15%