

Fire Resistant Pressure Relief Damper

3.4 Type CPR-01/2H



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. Where circular dampers are required, additional spigot adaptors are used which increase the damper insertion length from 200 to 300 mm. Maximum module size 700 x 700 mm.

Blades

The blades are a formed single-skin of 1.5 mm sheet steel and seal against a flame retardant PVC strip attached to the blades and top and bottom stops.

Shafts

Continuous shafts Ø 9.5 mm.

Linkage

Parallel action linkage consisting of drive levers and bosses connected by flat bar link bars, driven through stainless steel pins. All linkage is contained within the depth of the casing.

Bearings

Phosphor bronze self lubricated 'Oilite' flanged bushes.

Operation

Spring adjustment unit.

Options

Materials can be stainless steel, galvanized mild steel or other materials to suit the clients' specific requirements. Earth continuity bosses.

Lifting lugs.

Flame retardant PVC blade seals.

Integral or removable enclosures for housing control Equipment.

Blade side seals.

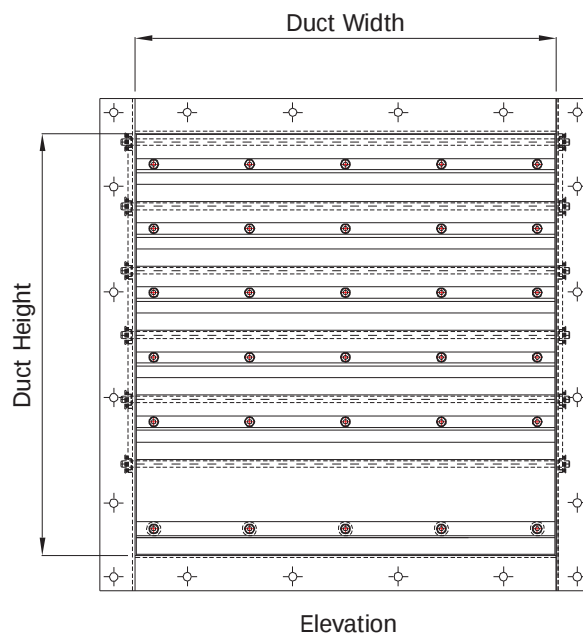
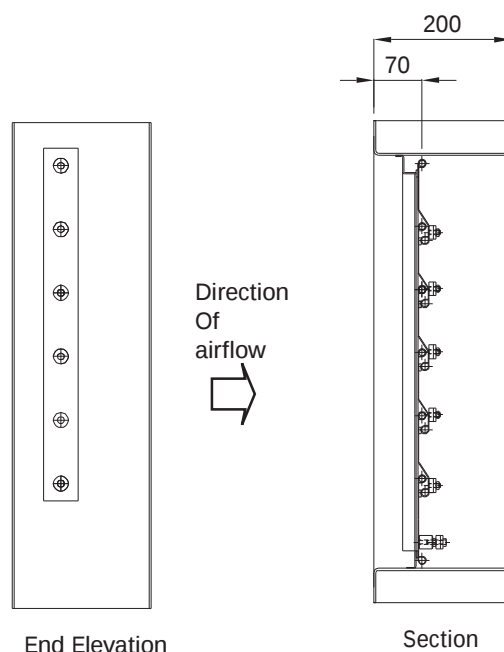
High temperature bearings.

Shaft seals to provide airtight casings

Other variations to suit clients' specific requirements are also available.

DESCRIPTION

The type CPR-01/2H Pressure Relief Fire Damper has been designed for building into walls or floors with the air flow upwards. The damper has been successfully tested in accordance with BS476 for 2 hours. To ease installation these dampers can be supplied in modules.



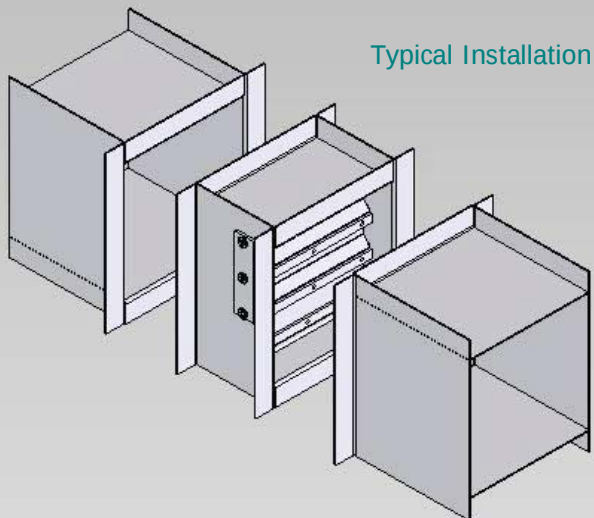
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3.4.1 Type CPR-01/2H

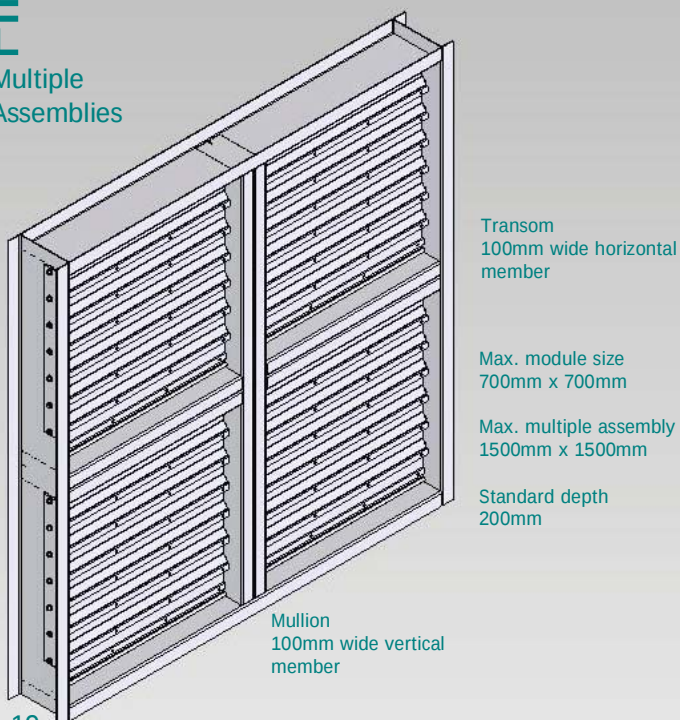
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INSTALLATION AND ASSEMBLY

An approved sealant should be inserted between
The damper and duct flange to ensure a good seal.



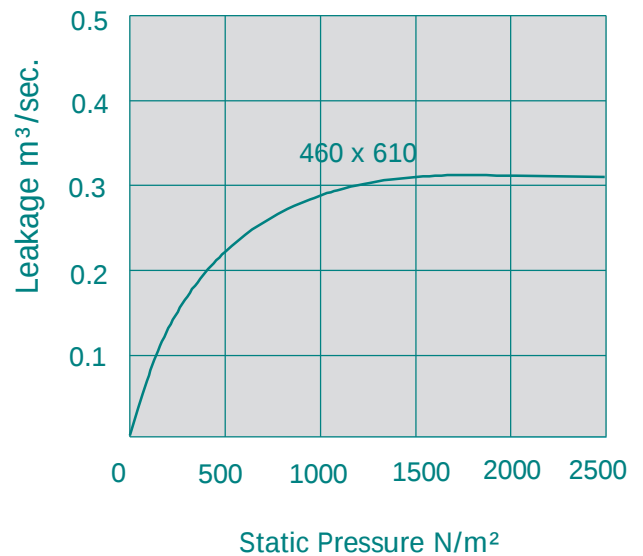
Multiple Assemblies



OPEN PRESSURE DROP CHARACTERISTIC CURVE

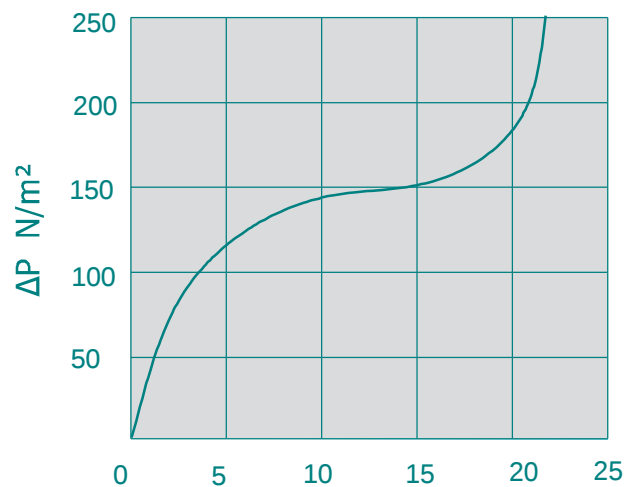
The static pressure drop curve - face velocity
characteristic was conducted with free blades
without spring or weight assistance or loading.

Tolerance $\pm 15\%$



OPEN PRESSURE DROP CHARACTERISTIC CURVE

Tolerance $\pm 15\%$



Face Velocity m/sec. (Based on duct area)