

HT VCD MB120

High Temperature Volume Control Damper
(Non Fire Rated)

Designed for inclusion in ductwork

Features

- **Blades**
430 and 316 Stainless Steel options.
- **Casings**
Rectangular and circular flanges. Galvanised and 316 Stainless Steel options. Standard and customer flange hole options.
- **Controls**
Manual Quadrant Control.
Electrical Control.
Extended Spindle Control.
- **Tests and Approvals**
Temperature Tested.
Corrosion Tested.
Vibration Tested.



*action*air

Dampers Controls Fancoils

Ruskin Air Management Limited
www.ruskinuk.co.uk

Introduction

Actionair has for many years been associated in the design, development and manufacture of life safety equipment.

The HT VCD MB120 complements a comprehensive range of automatic fire and smoke dampers with their associated controls. These provide a complete solution for air conditioning and ventilation systems fire safety engineering strategies.

Specification

The Actionair HT VCD MB120 Volume Control Damper is constructed from galvanised steel 1.2mm thick, 40mm flanged, rectangular or circular casing, (316 stainless steel option available).

75mm interlocking 430 grade stainless steel aerodynamic blades, steel blade end bearings and 300 grade stainless steel peripheral gasketing (316 grade stainless steel blade and blade end bearings available).

The totally enclosed precise movement opposed blade drive is positioned out of the airstream for protection against damage and is hard wearing and free running.

Range and Application

The Actionair HT VCD MB120 Volume Control Dampers are suitable for high temperature applications running continuously up to 400 °C (No Blade Seals) or 170 °C (With Blade Seals) manual operation only. Electrical operation up to 70 °C ductwork temperature, 50 °C ambient.

The Actionair HT VCD MB120 Dampers can be used where the maximum system pressure is up to 1500 Pa and duct velocities to 15m/s.

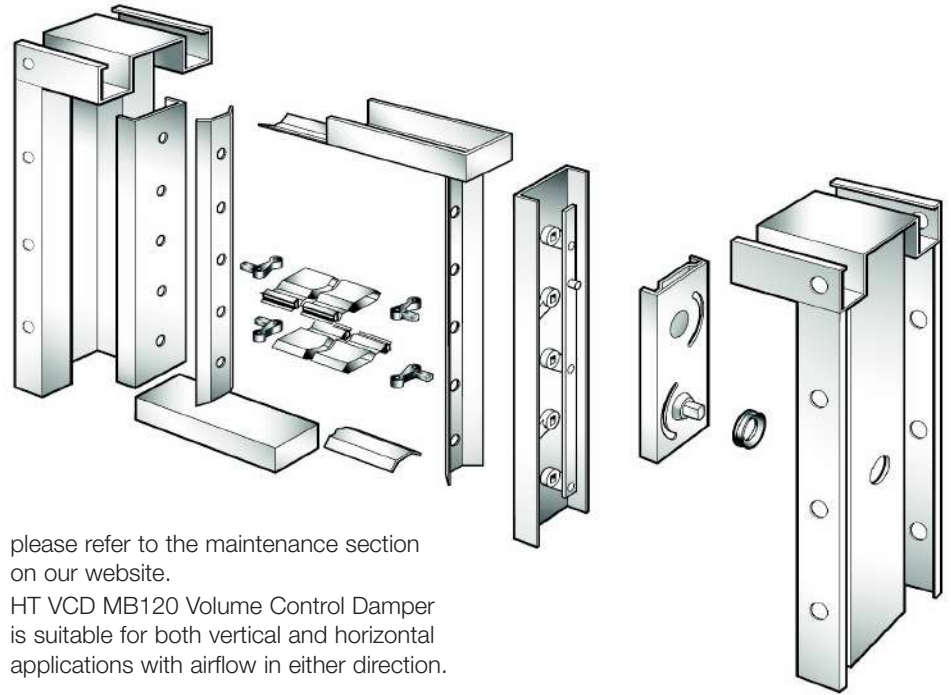
HT VCD MB120 Volume Control Dampers are designed for applications in normal dry filtered air systems and should be subjected to a planned inspection programme, with cleaning and light air lubrication in accordance with good industry practice. When exposed to fresh air intakes and/or inclement conditions

Casing Features

The standard 1.2mm galvanised steel flanged type casing, having a single penetration for the drive control, complies to Class A & B of Eurovent 2/2 and Test procedures for Classes A, B, and C of the HVCA Ductwork Specification DW144, at temperatures not exceeding 70°C.

Pre-punched bolt holes are provided as standard (refer to page 3). In addition stainless steel peripheral gasketing is included, which allows for expansion under high temperature conditions.

Casings manufactured in Type 1.4401 (316 grade) Austenitic stainless steel are available as an optional extra.



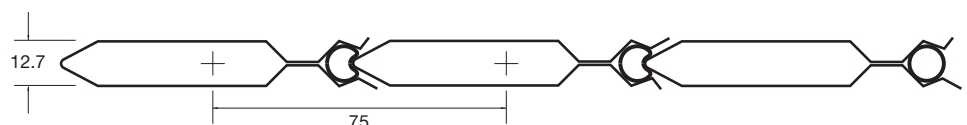
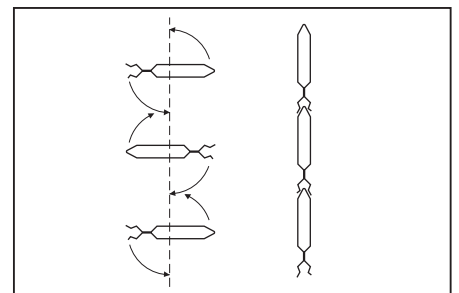
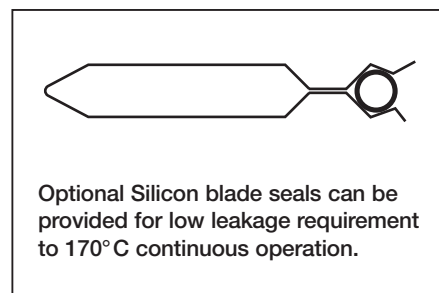
please refer to the maintenance section on our website.

HT VCD MB120 Volume Control Damper is suitable for both vertical and horizontal applications with airflow in either direction.

Blade Features

The damper blades are aerodynamic double skin Type 1.4016 (430 grade) Ferritic stainless steel, which are 75mm wide and when closed interlock to form a positive low leakage shield. Incorporated in the blade are steel blade end bearings. Optional silicone blade seals are available.

Optional Type 1.4401 (316 Grade) Austenitic stainless steel can be provided for blades and blade end bearings.



Testing

The Actionair HT VCD MB120 Damper has been:-

- Corrosion Tested to BS EN 60068-2-52, severity 2 conditions. (Report RLR.3).
- Vibration Tested to BS EN 60068-2-6 (5Hz to 350Hz @ 2g). (Certificate H30/FTL 01701).

All Certification and Test Reports are available by contacting the Actionair Sales Office.

Damper Weights

Calculated Weights (kg) Rectangular										
	100	200	300	400	500	600	700	800	900	1000
100	3.0	3.8	4.6	5.5	6.3	7.1	8.0	8.8	9.7	10.5
200	4.1	5.0	5.9	6.9	7.8	8.7	9.6	10.5	11.4	12.3
300	5.3	6.4	7.4	8.4	9.5	10.5	11.5	12.6	13.6	14.7
400	6.2	7.3	8.4	9.5	10.6	11.7	12.8	13.9	15.0	16.1
500	7.4	8.6	9.7	10.9	12.1	13.3	14.4	15.6	16.8	18.0
600	8.6	9.9	11.2	12.5	13.8	15.1	16.4	17.7	19.0	20.4
700	9.5	10.9	12.2	13.6	15.0	16.3	17.7	19.1	20.5	21.8
800	10.3	11.8	13.2	14.7	16.1	17.5	19.0	20.4	21.9	23.3
900	11.5	13.1	14.7	16.3	17.8	19.4	21.0	22.6	24.1	25.7
1000	12.4	14.1	15.7	17.4	19.0	20.6	22.3	23.9	25.6	27.2

Calculated Weights (kg) Circular	
100 Dia.	4.6
200 Dia.	8.1
300 Dia.	12.0
400 Dia.	15.4
500 Dia.	19.8
600 Dia.	24.6
700 Dia.	28.9
800 Dia.	33.6
900 Dia.	39.4
1000 Dia.	44.5

Ordering Information

Example

Quantity	Series	Duct size	Control Method	Flange Holes
3	HT VCD MB120	400 (W) x 250 (H)	Electrical (STD)	Drilled (Std)
Number of units required	HT VCD MB120		Manual Quadrant Control Electrical STD Power on (Reset) Power off (Release) 2P 2 Position on/off drive both ways 3P 3 Position on/off drive both ways 0-10V Modulating Extended Spindle Control	Drilled Standard Undrilled (Optional) Customer Drilling (Optional)

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Ruskin Air Management Limited
 is a ISO 9001 and 14001
 registered company