

SERIES 1000 MZ

TWO-DECK MULTIZONE
AIR-FOIL CONTROL DAMPERS

engineering data
and specifications



TAMCO 



1. Extruded aluminum (6063-T5) multizone damper frame is not less than 0.080" (2.03 mm) in thickness. Damper frame is 4" (101.6 mm) deep x 1" (25.4 mm), with mounting flanges on both sides of frame.
2. Blades are 6" (152.4 mm) deep extruded aluminum (6063-T5) air-foil profiles. All blades are symmetrically pivoted.
3. Internal zone dividers (splitters) are extruded aluminum (6063-T6) profiles.
4. Blade seals are extruded EPDM. Frame seals are extruded silicone. Seals are secured in an integral slot within the aluminum extrusions. Blade and frame seals are mechanically fastened to prevent shrinkage and movement over the life of the damper.
5. Bearings are composed of a Celcon inner bearing - fixed around a 7/16" (11.11 mm) aluminum hexagon blade pivot pin - rotating within a polycarbonate outer bearing inserted in the frame. This eliminates action between metal-to-metal or metal-to-plastic riding surfaces.
6. Adjustable 7/16" (11.11 mm) hexagonal drive rod, U-bolt fastener, and hexagonal retaining nuts are zinc-plated steel. These provide a positive connection to blades and linkage.
7. Aluminum and corrosion-resistant zinc-plated steel linkage hardware is installed in the frame side, complete with cup-point trunnion screws for a slip-proof grip.
8. Blades are linked between decks with a 7/16" (11.11 mm) extruded aluminum (6063-T6) hexagon rod.
9. Multizone dampers are designed for operation in temperatures ranging from -40°F (-40°C) to 212°F (100°C).
10. Leakage does not exceed 3 cfm/ft² (15.2 l/s/m²) against 1 in w.g. (0.25 kPa) static pressure differential. Tested in accordance with ANSI/AMCA Standard 500-D.
11. Multizone dampers are custom made to required size, without blanking off free area. The blade stop is set at a fixed height and is a continuous and integral part of the top and bottom frames within each zone.
12. All sizes are inside frame dimensions.
13. All multizone dampers with spacing between decks that exceeds 2" (51 mm) are built with an 18 ga. galvanized steel sheet fastened with #8 x 1/2" (12.7 mm) Tek screws.
14. Multizone dampers are available with either opposed blade action or parallel blade action.
15. Multizone dampers are available in Flanged to Duct install type only.
16. Installation of multizone dampers must be in accordance with TAMCO's current on-line installation guidelines. (Printed installation guidelines are provided with each damper shipment, however all technical information available on TAMCO's web site at www.tamcodampers.com supersedes information contained within printed versions.)
17. Intermediate structural support is required to resist applied pressure loads. (See TAMCO Aluminum Damper Installation Guidelines.)

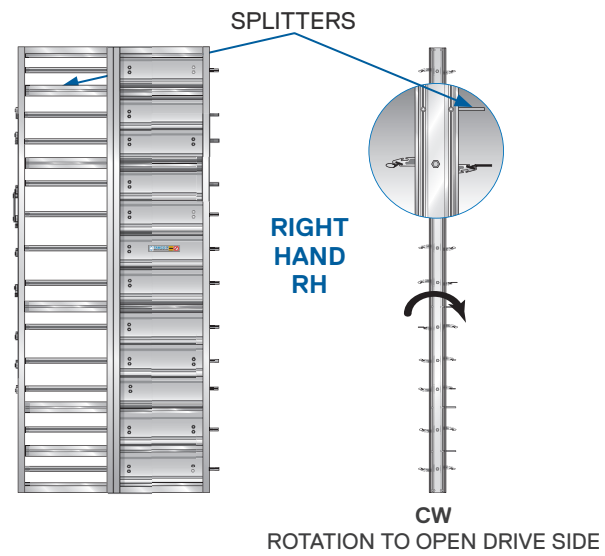
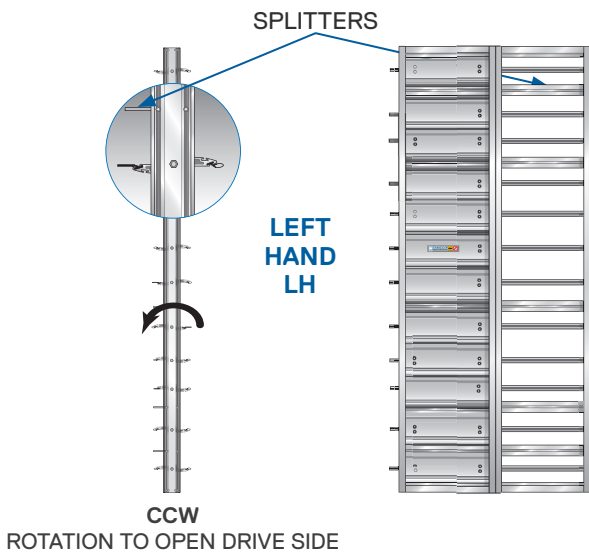
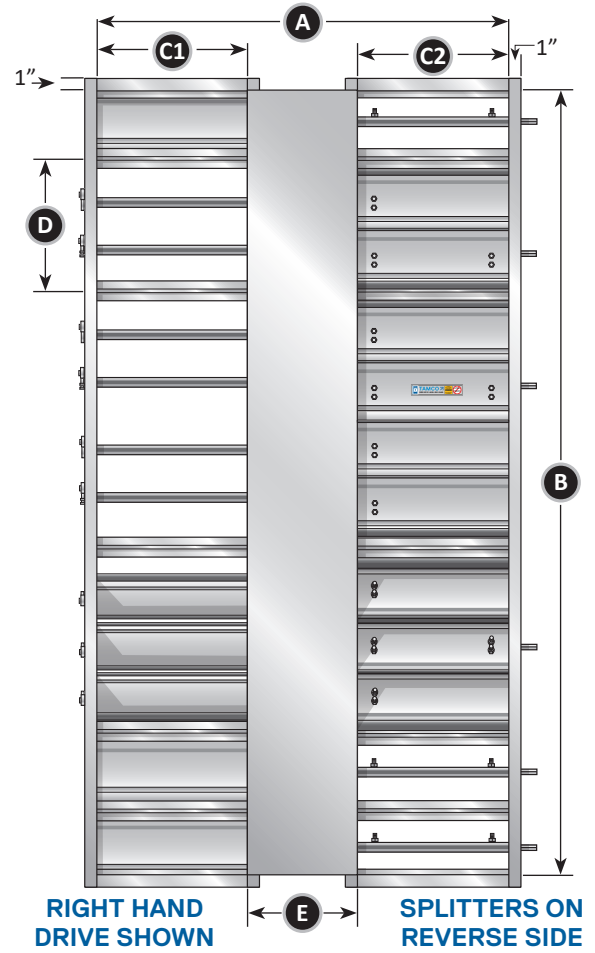
NOTE:

- Suitable for operation in breathable air environments within stated temperature range.
- Also available as Series 1001 MZ One-Deck Multizone Air-Foil Control Dampers.

DIMENSIONAL PARAMETERS | Series 1000 MZ

Two-Deck Multizone Air-Foil Control Damper

MINIMUM & MAXIMUM UNIT SIZES:		
A	MINIMUM:	14" (356 mm)
	MAXIMUM:	96" (2439 mm)
<i>(Maximum "A" dimension includes 24" (610 mm) maximum spacing between decks.)</i>		
B	MINIMUM:	4½" (115 mm)
	MAXIMUM:	120" (3048 mm)
C MINIMUM & MAXIMUM DECK SIZES:		
	MINIMUM:	6" (153 mm)
	MAXIMUM:	36" (915 mm)
<i>(Dimensions refer to inside measurements of individual deck frames.)</i>		
D MINIMUM & MAXIMUM ZONE SIZES:		
	MINIMUM:	4½" (115 mm)
	MAXIMUM:	75" (1905 mm)
<i>(Dimensions refer to inside measurements of individual internal zone dividers or zone frames.)</i>		
E MINIMUM & MAXIMUM SPACING BETWEEN DECKS:		
	MINIMUM:	2" (51 mm)
	MAXIMUM:	24" (610 mm)
<i>(Dimensions are measured from the inside edge to the opposite inside edge of the center frames separating decks.)</i>		



FRONT / TOP END UP / RIGHT HAND

When the labels on the blades are viewed right side up, the damper orientation is Front/Top end up.
 When viewed as Front/Top end up, right hand (RH) has drive rods on the right. Left hand (LH) has drive rods on the left.
 When the left blades are shut, the right blades are open.
 When the right blades are shut, the left blades are open.

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ENGINEERING DATA AND SPECIFICATIONS

FOR ADDITIONAL INFORMATION REFER TO:



INSTALLATION GUIDELINES UNDER THE DOCUMENTS TAB:

- TAMCO Aluminum Control Damper Installation Guidelines
- Installing Vertical Blade Damper
- Damper Jumper Installation Guidelines
- Horizontal Jackshaft Installation Guidelines
- Vertical Jackshaft Installation Guidelines



INSTALLATION GUIDELINE VIDEOS

SPX ENGINEERED AIR MOVEMENT

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