

MULTI-ZONE DAMPER

Suggested Specifications:

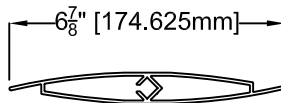
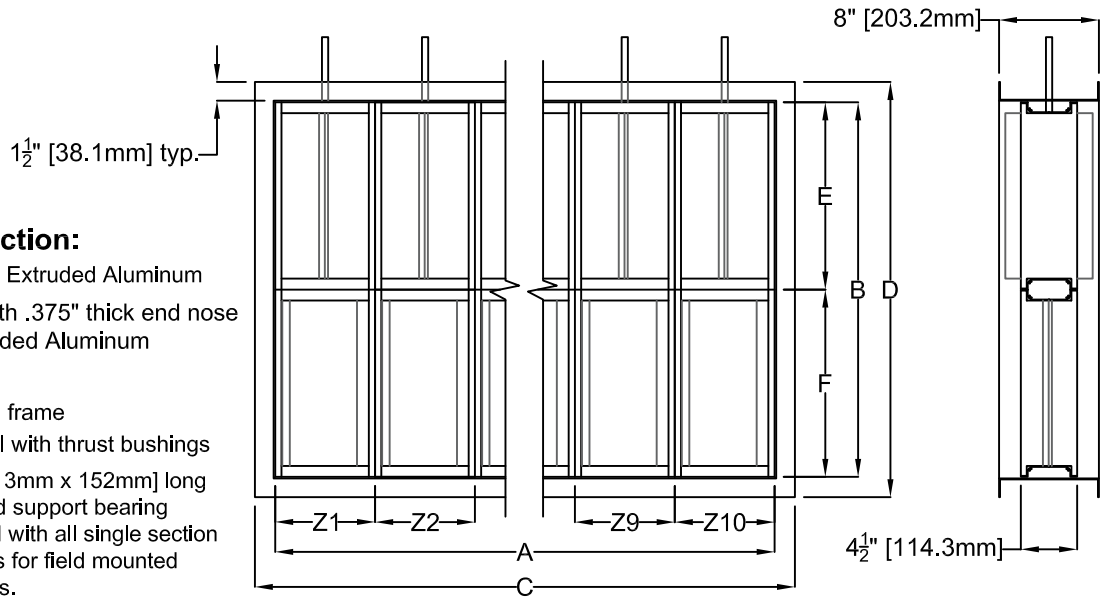
Furnish and install at location shown on drawing or in accordance with schedules dampers meeting the following specifications: Rectangular damper shall have 3/8" thick nose hollow airfoil blade and .081 extruded aluminum top and bottom frames. Damper to have thrust bushings and meet the low pressure drop and low leakage equal to United Enertech **MODEL MZD-150**.

Standard Construction:

- Frame:** 0.081 [2.06mm] Extruded Aluminum
- Blade:** Hollow Airfoil with .375" thick end nose (6063-T5) Extruded Aluminum
- Bearing:** Bronze Oilite
- Linkage:** Concealed in frame
- Axes:** zinc plated steel with thrust bushings
- Control Shaft:** 1/2" x 6" [13mm x 152mm] long outboard support bearing supplied with all single section dampers for field mounted actuators.
- Outer Sleeve:** 18ga. galvanized
- Blade seals:** Removable TPV (250° F)
- Jamb seals:** Stainless Steel (compression)

Options:

- Insulated (Foam-filled blades)



Blade Detail

Minimum Zone Size: 5" (E/F) x 4" (Z) [127mm x 102mm], 8" [203mm] and under single blade
 Maximum Zone Size: 30" (E/F) x 30" (Z) [762mm x 762mm] (single section) Multi-section: unlimited
 Maximum Assembly Size (C x D): 84" x 120" [2134mm x 3048mm] or 120" x 84" [3048mm x 2134mm]

QTY	OVERALL DIMENSIONS						ZONE DIMENSIONS										TAG
	A	B	C	D	E	F	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	

Due to continuing research, United Enertech reserves the right to change specifications without notice.

Job Name:	<input type="checkbox"/> MODEL MZD-150		
Location:			
Architect:	DRAWN BY: CAS	DATE: 5-19-17	REV. DATE:
Engineer:	REV. NO.	APPROVED BY: CJ	DWG. NO.: A-26b
Contractor:			

MODEL MZD-150 PERFORMANCE DATA

Imperial Units (MZD-150 Opposed Blade, Forward Flow)

* Damper Width X Height	1 in. w.g.	4 in. w.g.	8 in. w.g.	*Torque (per sq. ft.)
36" X 36"	Class 1A	Class 1	Class 1	10 lbs-in
12" X 48"	Class 1	Class 1	Class 1	17.5 lbs-in
48" X 36"	Class 1A	Class 1	Class 2	10 lbs-in
60" X 36"	Class 1A	Class 2		10 lbs-in

*Torque applied to close and seat damper in during the test.

Imperial Units (MZD-150 Opposed Blade, Reverse Flow)

Damper Width X Height	1 in. w.g.	4 in. w.g.	8 in. w.g.	*Torque (per sq. ft.)
36" X 36"	Class 1A	Class 1	Class 1	10 lbs-in
12" X 48"	Class 1A	Class 1	Class 1	17.5 lbs-in
48" X 36"	Class 1A	Class 1	Class 2	10 lbs-in
60" X 36"	Class 1A	Class 1		10 lbs-in

*Torque applied to close and seat damper in during the test.

Note: Leakage data applies only to horizontal blade damper configurations.

Air leakage is based on operation between 50° F to 104° F. All data corrected to represent air density of 0.075 lbs/ft³.

12" x 12" (305mm x 305mm)

Face Velocity ft/min (m/s)	Pressure Drop in. w.g. (Pa)
1000 (5.08)	0.07 (17)
1500 (7.62)	0.16 (39)
2000 (10.16)	0.28 (69)

24" x 24" (610mm x 610mm)

Face Velocity ft/min (m/s)	Pressure Drop in. w.g. (Pa)
1000 (5.08)	0.03 (8)
1500 (7.62)	0.07 (18)
2000 (10.16)	0.13 (32)

48" x 12" (1219mm x 305mm)

Face Velocity ft/min (m/s)	Pressure Drop in. w.g. (Pa)
1000 (5.08)	0.03 (8)
1500 (7.62)	0.07 (17)
2000 (10.16)	0.12 (31)

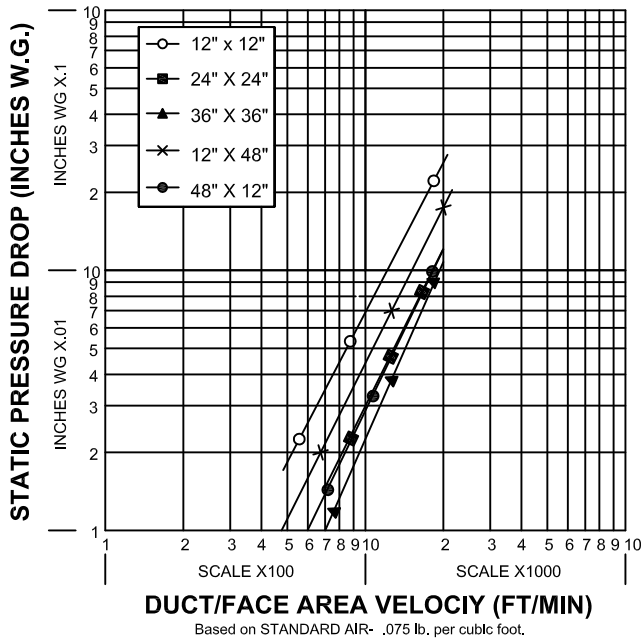
12" x 48" (305mm x 1219mm)

Face Velocity ft/min (m/s)	Pressure Drop in. w.g. (Pa)
1000 (5.08)	0.05 (12)
1500 (7.62)	0.09 (22)
2000 (10.16)	0.18 (45)

36" x 36" (914mm x 914mm)

Face Velocity ft/min (m/s)	Pressure Drop in. w.g. (Pa)
1000 (5.08)	0.03 (7)
1500 (7.62)	0.06 (15)
2000 (10.16)	0.11 (27)

PRESSURE DROP



* All sizes shown are individual damper sections (Zones).