

Suggested Specifications:

MULTI-ZONE DAMPER (TRIPLE DECK)

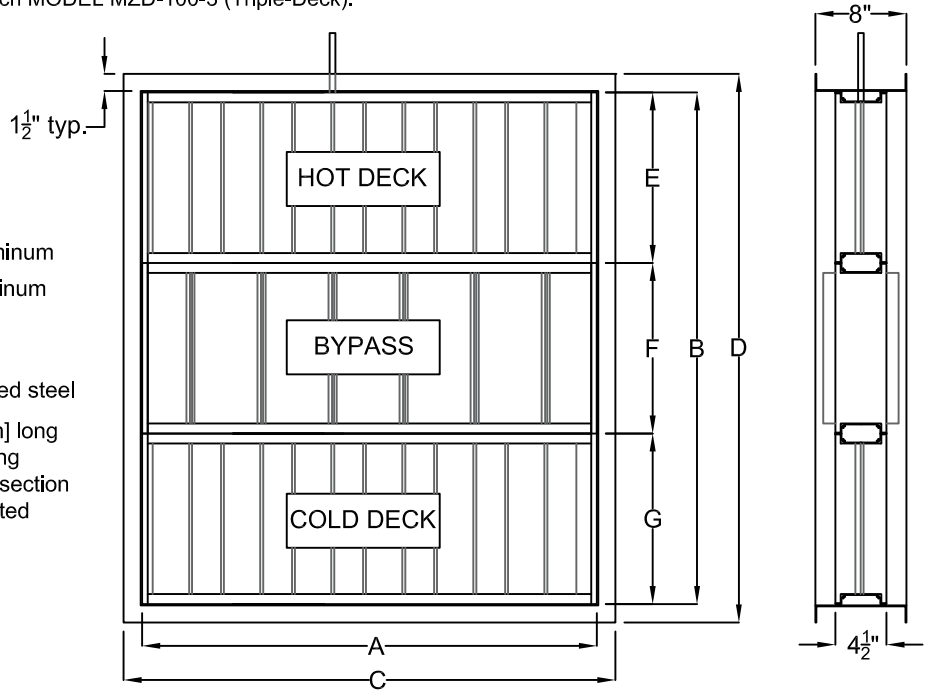
Furnish and install at location shown on drawing or in accordance with schedules dampers meeting the following specifications: Rectangular damper shall have 0.125" [3.18mm] extruded aluminum blades and .081" [2.06] extruded aluminum frame. 1 1/2" x 8" x 1 1/2" 18ga. galvanized outer sleeve. Optional blade and jamb seals must be used to achieve optimal leakage rating. Damper to have thrust bushings and meet the low pressure drop equal to United Enertech MODEL MZD-100-3 (Triple-Deck).

Standard Construction:

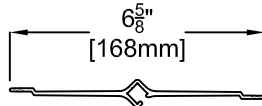
- Frame:** 0.081 [2.06mm] Extruded Aluminum
- Blade:** 0.125 [3.18mm] Extruded Aluminum
- Bearing:** Nylon
- Linkage:** Concealed in frame
- Axles:** 3/8" [9.35mm] square, zinc plated steel
- Control Shaft:** 1/2" x 6" [13mm x 152mm] long outboard support bearing supplied with all single section dampers for field mounted actuators.
- Outer Sleeve:** 18ga. galvanized

Options:

- Bronze Bushing
- Blade Seals PVC (175°F [79°C])
- Compression Jamb Seals (stainless steel)



*Cold Deck Closed, Bypass Open, Hot Deck Closed



Blade Detail

Minimum Zone Size: 5" (E/F/G) x 4" (Z) [127mm x 102mm], 8" [203mm] and under single blade
 Maximum Zone Size: 30" (E/F/G) 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]

OVERALL DIMENSIONS								TAG
QTY	A	B	C	D	E	F	G	

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

Job Name:	<input type="checkbox"/> MODEL MZD-100-3 (TRIPLE-DECK)		
Location:			
Architect:	DRAWN BY: CAS	DATE: 5-19-17	REV. DATE:
Engineer:	REV. NO.	APPROVED BY: CJ	DWG. NO.: A-26c
Contractor:			

Model MZD-100-3 (TRIPLE DECK) Performance Data

LEAKAGE PERFORMANCE

* Damper Width X Height	1 in. w.g. Class	4 in. w.g. Class	8 in. wg Class
12" x 12"	3.6 (Class 1A)	7.6 (Class 1A)	10.3 (Class 1A)
36" x 36"	0.5 (Class 1A)	5.6 (Class 1A)	20.8 (Class 1A)

Note: At 1" w.g. 12"x12" damper leaks 3.6 cfm per square foot.

Note: At 1" w.g. 36"x36" damper leaks 0.5 cfm per square foot.

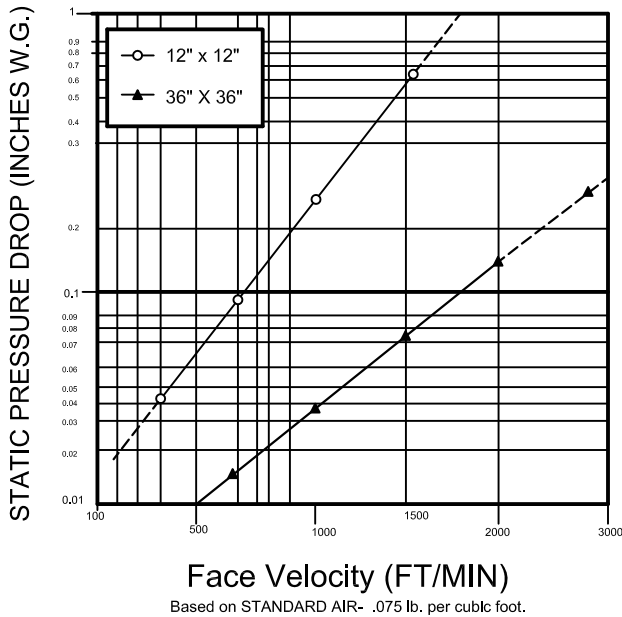
Note: Leakage data applies only to horizontal blade damper configurations.

AMCA STANDARDS

Pressure Class	Leakage, ft ³ /min /ft ²			
	Required Rating		Extended Ranges (optional)	
	0.25 kPa (1")	1.0 kPa (4")	2.0 kPa (8")	3.0 kPa (12")
1A	15.2 (3)	40.6 (8)	55.9 (11)	71.1 (14)
1	20.3 (3)	40.6 (8)	55.9 (11)	71.1 (14)
2	50.8 (10)	102 (20)	142 (28)	178 (35)
3	203 (40)	406 (80)	569 (112)	711 (140)

Leakage Classification per AMCA publication 511-99

PRESSURE DROP



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

Face Velocity ft/min (m/s)	Pressure drop w.g. (PA)
407 (2.0)	.040 (1.24)
820 (4.1)	.150 (4.97)
1234 (6.3)	.340 (12.42)
1641 (8.3)	.610 (22.35)
2057 (10.4)	.950 (34.77)

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

Face Velocity ft/min (m/s)	Pressure drop w.g. (PA)
392 (1.99)	.005 (1.24)
789 (4.01)	.02 (4.97)
1208 (6.14)	.05 (12.42)
1598 (8.12)	.09 (22.35)
2006 (10.19)	.14 (34.77)

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