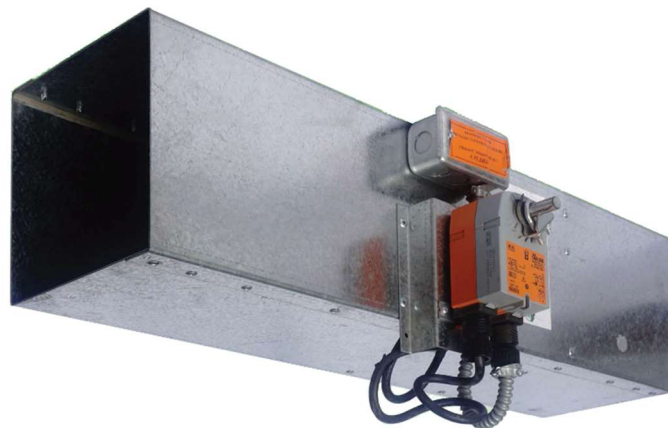


Arabian Thermal Aire Industries



ATAI FIRE SMOKE DAMPER MODEL AFSD Series 1-1/2 & 3 HOUR UL 555 / 555S RATED, LEAKAGE CLASS I, II & III

Construction-Performance



Catalog ID: ATAI AFSD series - December, 2022

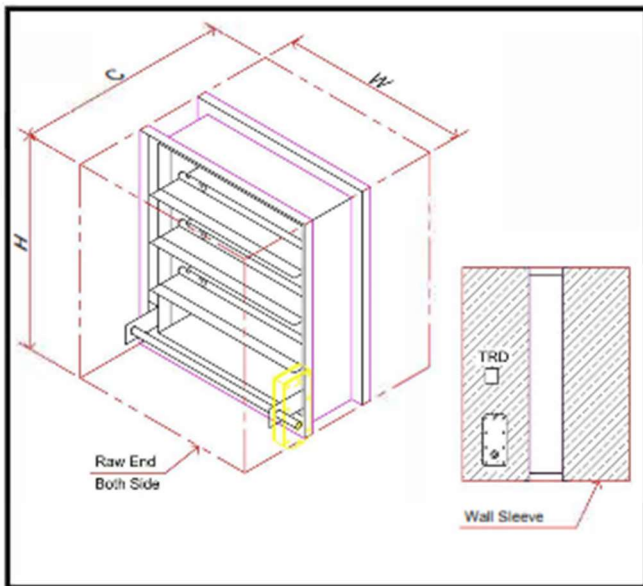
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ATAI FIRE SMOKE DAMPER MODEL AFSD Series 1-1/2 & 3 HOUR UL 555 / 555S RATED, LEAKAGE CLASS I, II & III

Standard Construction



CHANNEL FRAME

Galvanized or Stainless-Steel Ga. 16 or Ga 18, 35 x 150 W x 35 mm Hat type with stainless steel side seal.

BLADES

Galvanized or Stainless-Steel Ga. 16. Standard Blade height 150mm, For First & Last blades can vary in height from 75 to 200mm with rubber blade seal for Class I/II/III or Alternate Stainless-Steel seal for Class II/III.

BLADE STOPPER

Galvanized or Stainless-Steel Ga 18.

BEARING PINS/SHAFT

Plated Steel or Stainless-Steel Rod 12.7 mm diameter.

BUSHINGS

Bronze Steel Bushing 12.7 mm diameter.

BLADE LINKAGE

Galvanized or Stainless Steel concealed into frame.

SHAFT TO ACTUATOR

Plated Steel or Stainless-Steel Rod 12.7 mm diameter.

THERMAL TRD

Selco or Belimo

ELECTRIC ACTUATORS

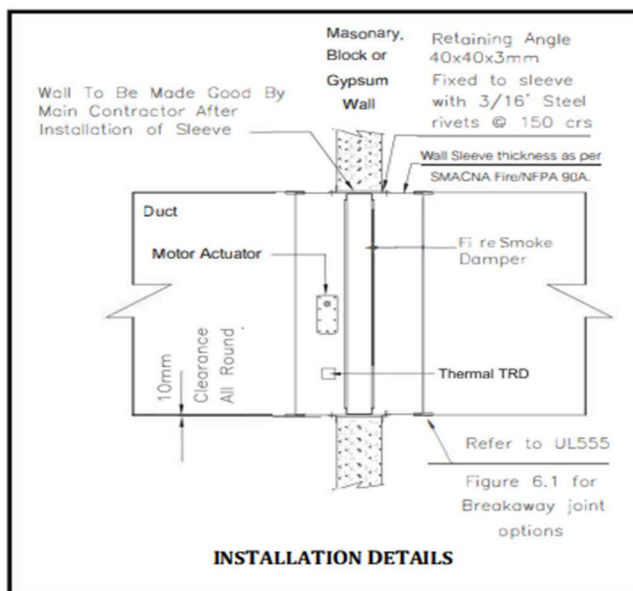
Spring Return Type Actuators 230V or 24V.

MOTOR BRACKET

Galvanized or Stainless-Steel.

SECTION

Section Sizes will be as per UL Certificate.



Arabian Thermal Aire Industries



ATAI FIRE SMOKE DAMPER MODEL AFSD Series 1-1/2 & 3 HOUR UL 555 / 555S RATED, LEAKAGE CLASS I, II & III

Air Performance

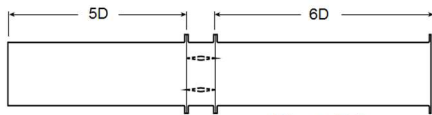


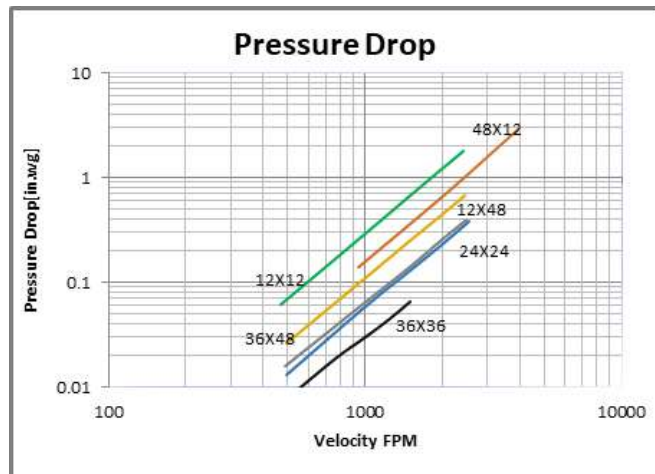
Figure 5.3

Arabian Thermal aire Industries Co. Ltd. certifies that the Fire Smoke Damper AFSD Series shown herein is licensed to bear the AMCA Certified Rating Program Seal. The rating are based on tests and procedure performed in accordance with AMCA Publication 511 and Comply with the requirements of the AMCA Certified Rating Program.



The AMCA Certified Rating Program Seal applies to Air Performance and Air Leakage ratings.

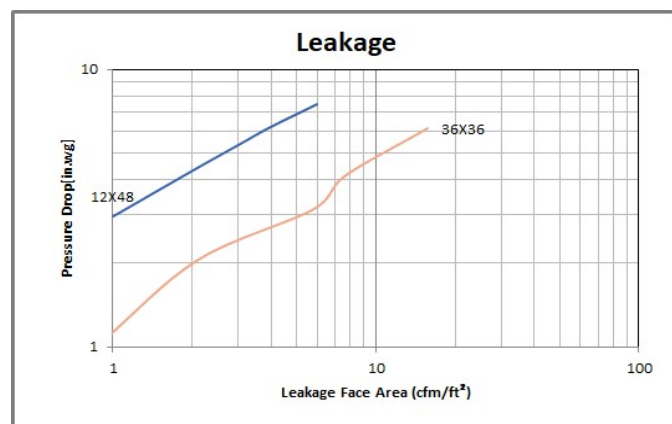
ATAI FIRE & SMOKE DAMPERS			
Velocity	ΔP	Velocity	ΔP
12X12		36X36	
468	0.062	501	0.008
1012	0.298	769	0.019
1461	0.635	999	0.03
1948	1.141	1246	0.045
2426	1.776	1504	0.066
36X48		24X24	
494	0.026	494	0.013
976	0.104	981	0.056
1480	0.243	1471	0.125
1969	0.43	1978	0.226
2461	0.678	2541	0.382
12X48		48X12	
487	0.016	937	0.139
991	0.064	1974	0.65
1482	0.139	2940	1.544
1977	0.253	3344	2.062
2470	0.393	3933	2.926



Rating Based on ANSI/AMCA 500-D-18 Fig 5.3

AMCA Leakage Classifications					
CLASS	Leakage ft ³ /min/ft ² (L/s/m ²)				
	at 1 in. W.G.	at 2 in. W.G.	at 4 in. W.G.	at 6 in. W.G.	at 8 in. W.G.
1A	3	N/A	N/A	N/A	N/A
1	4	5.6	8	9.8	11
2	10	14	20	24.5	25
3	40	56.5	80	98	112

Leakage Rating						
Damper size	Model	at 1 in wg	at 2 in wg	at 3 in wg	at 4 in wg	at 6 in wg
12X48	AFSD Series	1	1	1	1	1
36X36	AFSD Series	1A	1	1	1	2



Rating Based on: ANSI/AMCA 500-D-12 Fig 5.4 Alternate

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