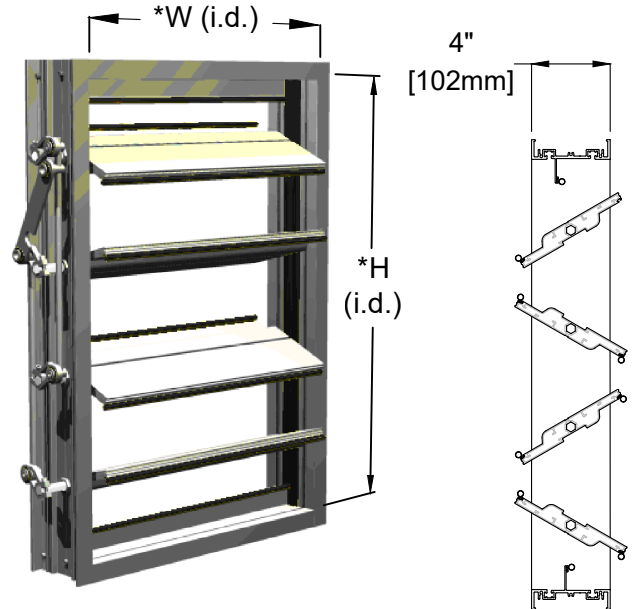


Design:

This damper is designed for coastal climate applications as it is constructed of anodized aluminum and 316 stainless steel components. The SW-155, 156 provides high performance in the form of low leakage and low pressure drop.

Standard Construction:

Frame:	0.125" [3.18mm] Extruded alum. (clear anodized)
Blade:	Heavy duty double construction extruded aluminum (clear anodized)
Blade Type:	Hollow Airfoil with end caps
Linkage:	Aluminum and 316 stainless steel
Axle Bearing:	Celcon inner bearing fixed to a 316 Stainless Steel hexagon blade pin rotating within polycarbonate outer bearing inserted in frame
Axle Material:	$\frac{7}{16}$ " [11mm] 316 Stainless Steel hexagon
Blade & Jamb Seals:	TPV "Santoprene" blade and jamb gasket



For Airflow and Leakage Performance, see catalog A-12e (thermal efficiency performance does not apply to model SW-155, 156 unless ordered with insulated blade option)

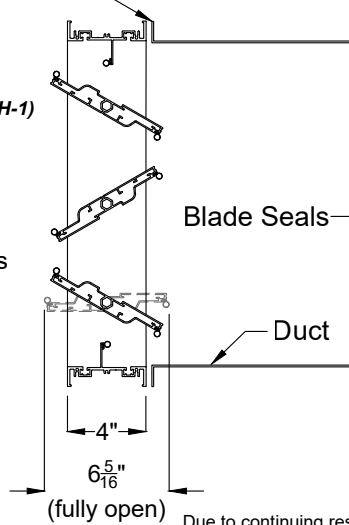
Temp. Range
-40°F to 200°F
(-4.4°C to 93.3°C)

*Sizes are exact inside dimensions (I.D.)
Minimum Size: 6"w x 7"h [152mm x 179mm](single blade)
Maximum Size: 60"w x 72"h [1524mm x 1828mm] (single section)
Maximum multi-section: Unlimited
Dampers larger than single section maximum are furnished in an assembly of 48"w x 72" (1219mm x 1829mm) or less equal sized individual sections

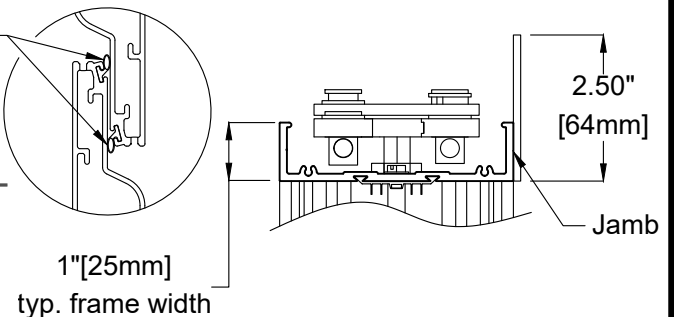
Options:

- Hand Quadrant
- Factory Actuators (See catalog sheet H-1)
- Stand Off Bracket, 2"
- Face and By-pass Damper
- Silicone blade and jamb gasket
- Insulated, Thermally broken blades (No blade end caps)
- Ducted Application (Add flange to linkage side)

Flange Mounted



*For in duct applications see below:
(Width I.D. plus 3.50" = duct mount damper (w) O.D.)
(Height I.D. plus 2" = duct mount damper (h) O.D.)

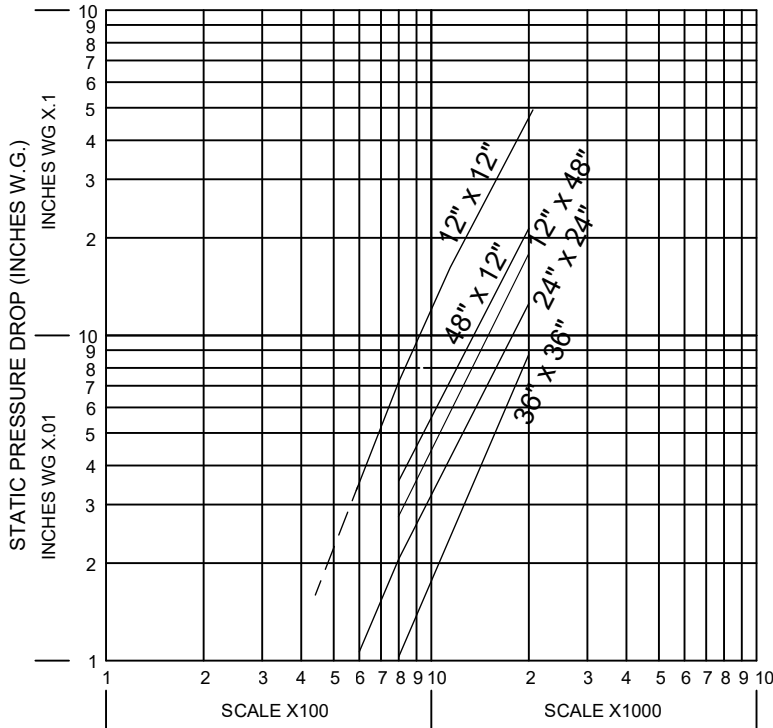


Due to continuing research, United Enertech reserves the right to change specifications without notice.

Job Name:	<input type="checkbox"/> MODEL SW-155 (Opposed)		
Location:	<input type="checkbox"/> MODEL SW-156 (Parallel)		
Architect:	DRAWN BY: CLJ	DATE: January 2014	REV. DATE: May 2022
Engineer:	REV. NO. 3	APPROVED BY: BGT	DWG. NO.: A-12f
Contractor:			

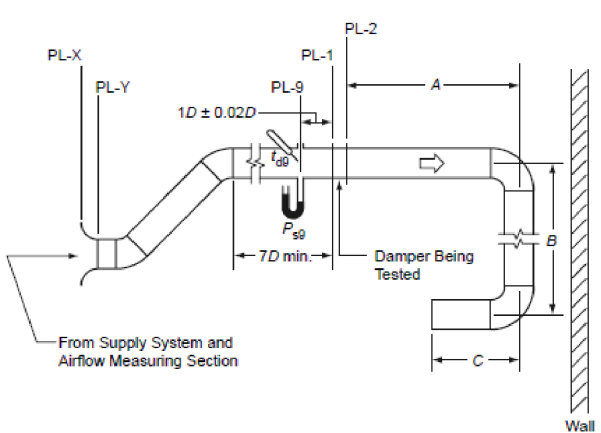
MODEL SW-155,156 PERFORMANCE DATA

AIR FLOW RESISTANCE



TB-155,156 sizes: 12" x 12", 24" x 24", 48" x 12", 12" x 48", 36" x 36"
(305 x 305mm, 610 x 610mm, 1219 x 305mm, 305 x 1219mm, 914 x 914mm)

Pressure drop test per AMCA Standard 500-D, Figure 5.3.



AMCA Figure 5.3 Pressure Drop

12x12 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
591	3.01	0.03	7
800	4.08	0.07	17
1207	6.16	0.16	40
1611	8.22	0.30	75
2024	10.32	0.48	120

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

48x12 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
398	2.03	0.008	2
801	4.09	0.03	7
1193	6.08	0.07	17
1596	8.14	0.13	32
1998	10.19	0.21	52

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

24x24 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
599	3.05	0.01	2
800	4.08	0.02	5
1203	6.14	0.04	10
1601	8.17	0.08	20
2004	10.22	0.12	30

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

36x36 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
595	3.03	0.005	1
792	4.04	0.01	2
1193	6.08	0.03	7
1590	8.11	0.05	12
1994	10.17	0.08	20

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

12x48 Pressure Drop			
Face Velocity		Pressure Drop	
fpm	(m/s)	inches w.g.	(Pa)
390	1.99	0.005	1
798	4.07	0.02	5
1185	6.04	0.05	12
1586	8.09	0.10	25
2008	10.24	0.17	42

Pressure drop test per AMCA Standard 500-D, Figure 5.3.

MODEL SW-155 PERFORMANCE DATA (continued)

Imperial Units (SW-155, Forward Flow)

Damper Width X Height	1 in. w.g.	4 in. w.g.	8 in. w.g.	*Torque (per sq. ft.)
12" X 48"	Class 1	Class 1	Class 1	16.5 lbs-in
36" X 36"	Class 1A	Class 1	Class 1	13.3 lbs-in
60" X 36"	Class 1A	Class 1	Class 2	9.6 lbs-in

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

Imperial Units (SW-155, Reverse Flow)

Damper Width X Height	1 in. w.g.	4 in. w.g.	8 in. w.g.	*Torque (per sq. ft.)
12" X 48"	Class 1	Class 1	Class 1	16.5 lbs-in
36" X 36"	Class 1A	Class 1	Class 1	13.3 lbs-in
60" X 36"	Class 1A	Class 1	Class 1	9.6 lbs-in

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

Metric Units (SW-155, Forward Flow)

Damper Width X Height	0.25 kPa	1.0 kPa	2.0 kPa	*Torque (per sq. m.)
305 X 1220	Class 1	Class 1	Class 1	20.2 N-m
915 X 915	Class 1A	Class 1	Class 1	16.1 N-m
1524 X 915	Class 1A	Class 1	Class 2	11.7 N-m

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

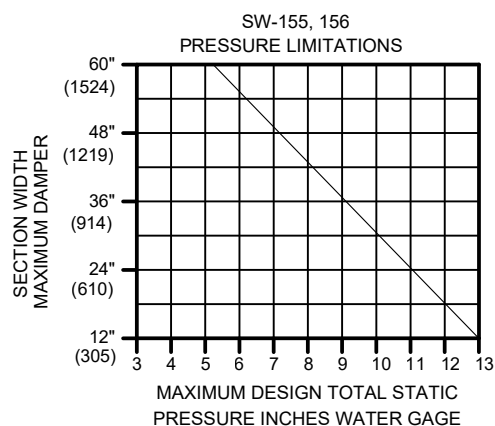
Metric Units (SW-155, Reverse Flow)

Damper Width X Height	0.25 kPa	1.0 kPa	2.0 kPa	*Torque (per sq. m.)
305 X 1220	Class 1	Class 1	Class 1	20.2 N-m
915 X 915	Class 1A	Class 1	Class 1	16.1 N-m
1524 X 915	Class 1A	Class 1	Class 1	11.7 N-m

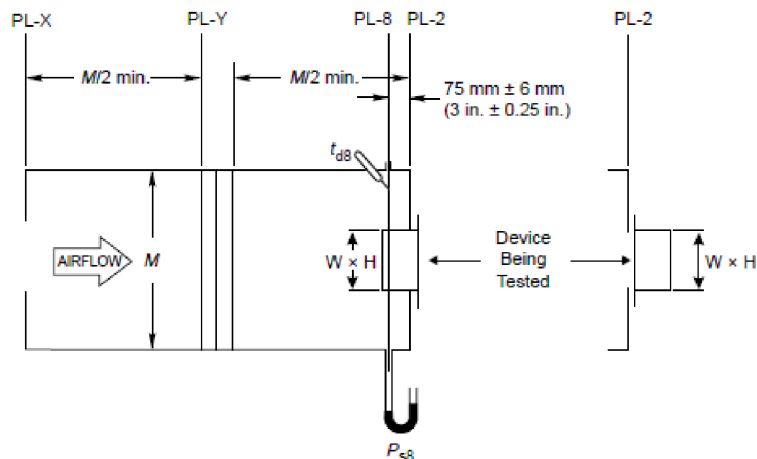
*Torque applied to close and seat damper in during the test.

Pressure Class	Leakage, ft ³ /min /ft ²			
	Required Rating	Extended Ranges (optional)		
	1"	4"	8"	12"
1A	3	n/a	n/a	n/a
1	4	8	11	14
2	10	20	28	35
3	40	80	112	140

All data corrected to represent standard air at a density of 0.075 lbs/ft³



Air leakage is based on operation between 50° F to 104° F. All data corrected to represent air density of 0.075 lbs/ft³. Tested per AMCA Standard 500-D (leakage), figure 5.4 Alternate.



AMCA Standard 500-D (leakage), figure 5.4 Alternate.