Extruded Aluminum Damper • 6" Deep • 6" Airfoil Blades • Parallel or Opposed • Thermal Break

Standard Construction and Materials

FRAME: 6" deep x 1%" high x .125" thick (nominal) wall thickness

6063-T52/T6 extruded aluminum, and 2 thermal breaks filled with

polyurethane and debridged for thermal isolation.

BLADES: 6" wide x .081" thick (nominal) wall thickness 6063-T52/T6

extruded aluminum, airfoil profile injected with a two-part polyurethane (CFC free) foam, and debridged for thermal isolation.

AXLES: 1/2" dia. extruded aluminum "Pin-Lock" design, interlocking into blade

section

BEARINGS: "Double-sealed" with celcon inner bearing riding inside a

polycarbonate outer bearing positively locked into frame, designed so that there shall be no metal-to-metal or metal-to-bearing riding

LINKAGE: Concealed in jamb of heavy aluminum. Crank arm permanently locked to blade axle by two stainless steel fasteners. The crank

arm contains a 1/2" dia. metal pivot riding in a celcon bearing. A 1/4 - 20 set screw with locking patch ties the 5/16" dia. aluminum linkage rod. The linkage of each damper is individually adjusted.

SEALS: Extreme low temperature seal system, extruded silicone rubber blade edge seal that fits into a ribbed groove insert in blades with

an extruded polycarbonate seal at jambs. FINISH: Mill.

TEMP. LIMITS: -70°F to +200°F

Options

Hand Quadrants 120V, 24V Electric, or Pneumatic Actuators

Jackshafting **Auxiliary Switch Explosion Proof Housing**

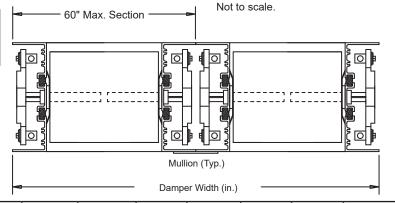
Notes

- 1. Nominal deductions will be made to the opening size given.
- 2. Dampers with multiple panels in both width and height may require structural support. It is recommended that large openings be designed with structural members so that dampers will span either width or height with a single panel. Structural support will not be provided with standard dampers.
- 3. Not recommended for blades installed vertically.
- 4. Approximate shipping weight is 6.5 lbs./sq.ft.

Opposed Blade Damper (Shown) Parallel Blade Damper also available Damper Sizes

Damper Height (in.)

Blades	Minimum Panel	Maximum Panel		
Parallel	8"W x 10%"H	60"W x 72"H		
Opposed	8"W x 10%"H	60"W x 72"H		



ltem #	Qty	Width	Height	Para.	Орро.	Actuator	Interior	Exterior	N.C.	N.O.	N. O.
		Dampe	er Size	Blade Position		Model	Location		Function		<u>Union Made</u>
Arch.	/ Eng.:					EDR:		ECN:		Job:	
Cont	ractor:										
Р	roject:					Date:		DWN:	·	DWG:	

In the interest of product development, Cesco Products reserves the right to make changes without notice.



Polycarbonate

Jamb Seal

(Typ.)

Closed Blade Detail

(Note Overlap of

Blades)

Extruded Silicone

Rubber Seal at

Bladed Edge

½" dia. "Pin-Lock" Axle

Shaft with Double-

Sealed Bearings

Extruded Stop at

Top and Bottom

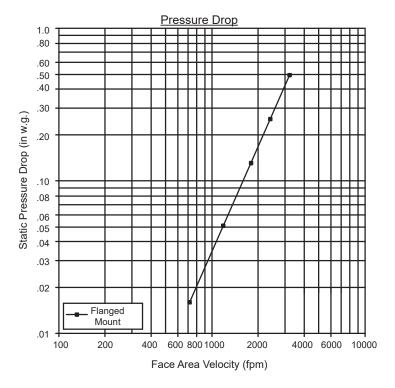
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Performance Data

PRESSURE DROP

Model ITAF Damper Size 36" x 36"

Pressure Drop Ratings are tested in accordance with AMCA Standard 500-D using test set-up Fig. 5.3 for damper installed with duct upstream and downstream. Static pressures are corrected to .075 lb/cu.ft. standard air density.



LEAKAGE

Air leakage ratings are tested in accordance with AMCA Standard 500-D using test set-up Fig. 5.4. Data is based on a closing torque of 5 in-lb/sq.ft. for dampers less than 6 sq.ft having a closing torque of 40 in-lb. Damper closing torque is applied to damper operating shaft.

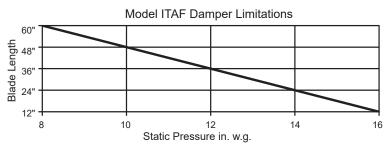
Total cfm Leakage at 1 in. w.g. Static Pressure Differential

	Width									
Height		12"	24"	36"	48"	60"				
	12"	2	4	6	8	10				
	18"	3	6	9	12	15				
	24"	4	8	12	16	20				
	30"	5	10	15	20	25				
	36"	6	12	18	24	30				
	42"	7	14	21	28	35				
	48"	8	16	24	32	40				
	54"	9	18	27	36	45				
	60"	10	20	30	40	50				
	66"	11	22	33	44	55				
	72"	12	24	36	48	60				

Leakage Correction Factor

	Static Pressure in.wg								
Damper	2"	3"	4"	5"	6"	7"	8"		
Width 12" - 60"	1.44	1.64	2.00	2.22	2.44	2.54	2.82		

Use of correction factors will give leakage values at greater than 1" pressures.



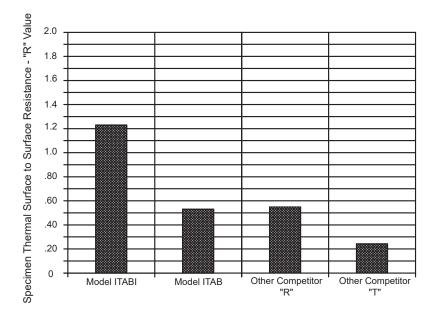
Model ITAF damper design at reduced lengths can withstand higher static pressure limits without sacrificing damper operation and performance. Static pressures above 8 in. w.g. will affect operation torque value.



450 Riverside Dr • Wyalusing PA, 18853 Phone: 570-746-1888 • Fax: 570-746-9286 www.cescoproducts.com Extruded Aluminum Damper • 6" Deep • 6" Airfoil Blades • Parallel or Opposed • Thermal Break

Performance Data (Cont.)

THERMAL PERFORMANCE



Damper Assembly Thermal Performance Rating tested to ASTM C-1363-97, Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus and replaces C-236 and C-976 test methods.