September 2018

MODEL ITAF

Page 1 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. L BLADES: 6" wide x .081" thick (nominal) wall thickness 6063-T52/T6 11/8 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 Polycarbonate BEARINGS: "Double-sealed" with celcon inner bearing riding inside a Jamb Seal polycarbonate outer bearing positively locked into frame, designed (Typ.) so that there shall be no metal-to-metal or metal-to-bearing riding surfaces. 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 Closed Blade Detail blade edge seal that fits into a ribbed groove insert in blades with (Note Overlap of an extruded polycarbonate seal at jambs. Blades) FINISH: Mill. Damper Height (in.) Extruded Silicone TEMP. LIMITS: -70°F to +200°F Rubber Seal at Options Bladed Edge Hand Quadrants 120V, 24V Electric, or Pneumatic Actuators 1/2" dia. "Pin-Lock" Axle Jackshafting Shaft with Double-Auxiliary Switch Sealed Bearings **Explosion Proof Housing** Notes 1. ¹/₄" nominal deduction will be made to the opening size given. Extruded Stop at 2. Dampers with multiple panels in both width and height may require structural Top and Bottom 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 Not to scale. 60" Max. Section 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 С Mullion (Typ.) Damper Width (in.) Width Para. Exterior N.C. N.O Height Oppo. Interior Actuator Item # Qty Model Damper Size **Blade Position** Location Function Union Made Arch. / Eng.: EDR: ECN: Job: Contractor: DWG: Project: Date: DWN: In the interest of product development, Cesco Products reserves the right to make changes without notice. 450 Riverside Dr • Wyalusing PA, 18853 Phone: 570-746-1888 • Fax: 570-746-9286 Division of Mestek Member of AMCA www.cescoproducts.com

September 2018

MODEL ITAF

Page 2

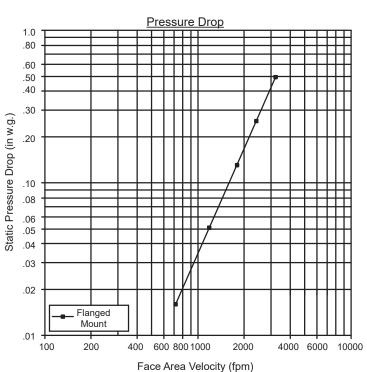
Extruded Aluminum Damper • 6" Deep • 6" Airfoil Blades • Parallel or Opposed • Thermal Break

Performance Data

PRESSURE DROP



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.

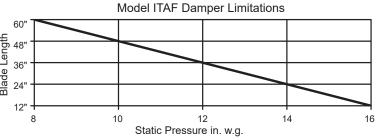
Total cfm Leakage at 1 in. w.	g. Static Pressure Differential
-------------------------------	---------------------------------

		-	-				-
	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	ļŧ
	36"	6	12	18	24	30	l anoth
Hei	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
Lounage	Concouon	1 40101

	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



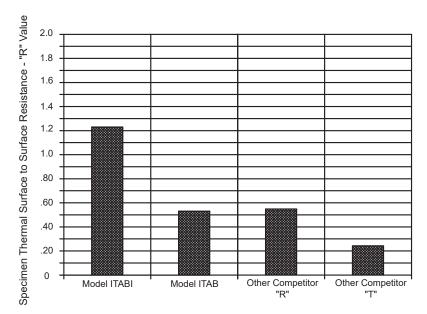
MODEL ITAF

Page 3

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.

