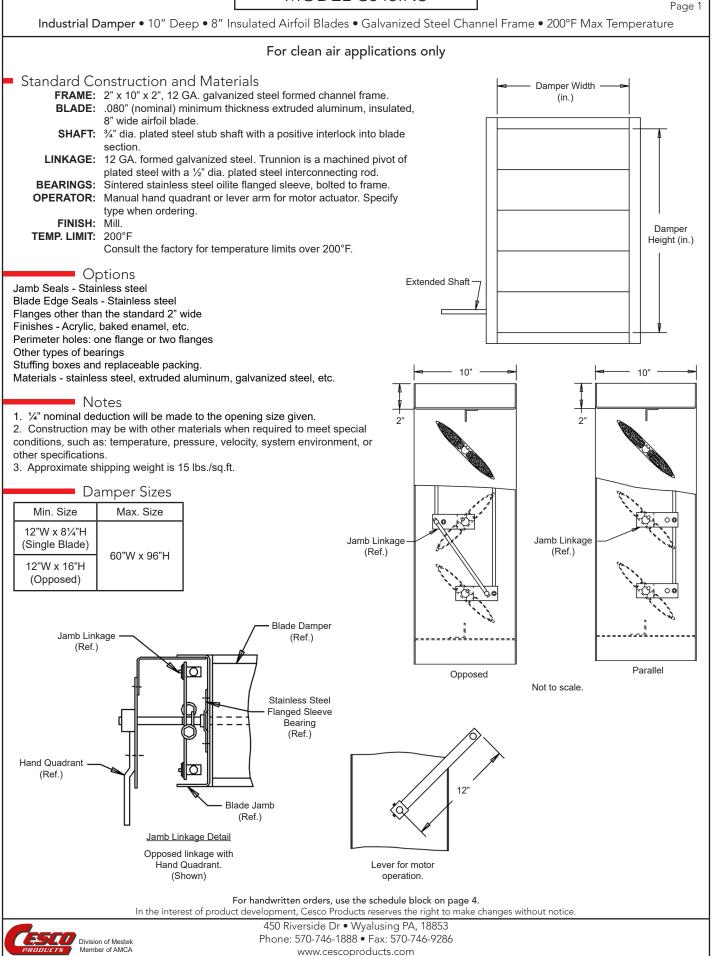
September 2018

MODEL C545INS



MODEL C545INS

Page 2 Industrial Damper • 10" Deep • 8" Insulated Airfoil Blades • Galvanized Steel Channel Frame • 200°F Max Temperature

Air Leakage Data

Air leakage quantities shown in the chart are results of tests per AMCA Standard 500 and are shown at 1 in. w.g. differential pressure and are corrected to .075 lb./cu.ft. air density.

		<u>Air Leakage</u> (Total CFM)								
		Damper Width (in. I.D.)								
	12" 18" 24" 30" 36" 42" 48" 54"							54"	60"	
	12"	12	16	20	22	24	28	32	34	36
(. D.	24"	20	24	28	32	36	42	48	49	50
in.	36"	30	35	42	48	54	57	60	68	75
Height	48"	40	44	48	54	60	70	80	90	100
	60"	50	55	60	67	75	87	100	112	125
Damper	72"	60	65	65	80	90	105	120	135	150
	84"	70	77	84	95	105	122	140	158	175
	96"	80	88	90	108	120	140	160	180	200

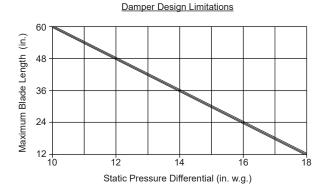
For determining leakage values greater than 1 in. w.g. to a maximum of 10 in. w.g., use the multiplier correction chart below.

Static Pressure (in.)	2	3	4	5	6	7	8	9	10
Multiplier Correction Factor	1.3	1.5	1.6	1.8	2.0	2.3	2.6	2.8	3.0

Air leakage ratings are based on AMCA Standard 500, using test set-up Fig. 5.4 with a damper closing torque applied to the damper of 31 in. lbs./sq.ft. of damper face area for a 60" x 96", with a minimum of 45 in. lbs./sq.ft. of a damper area for a size 60" x 8".

Damper air leakage shown is based upon publishing only the most conservative results for the Model C545INS industrial damper for an entire range of damper sizes.

To ensure proper damper operation and air leakage performance for this damper design, the static pressure and blade length limits shown below provide the necessary information and show the relationship between a damper's costs and its applications.



This damper's design at a length of 60" has a maximum allowable blade deflection of L / 360 for the static pressure indicated on the chart. At reduced blade lengths, higher static pressure limits can be attained without sacrificing damper operating performance characteristics.



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Velocity Limitations

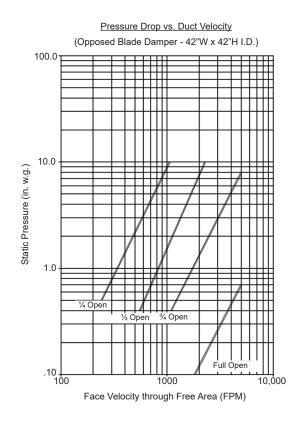
The table below lists the maximum allowable velocity for a given maximum damper size. If application requirements exceed the recommendations listed in the table, please select another model or consult the factory.

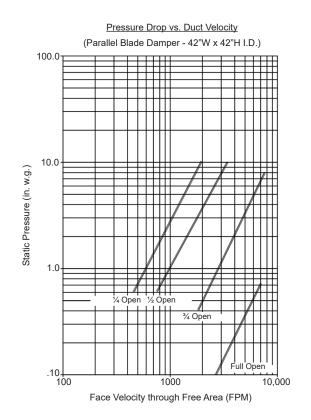
Maximum Allowable Velocity

	3000 FPM or less	4000 FPM	5000 FPM
Minimum Size	12"W x 9"H	12"W x 9"H	12"W x 9"H
Maximum Size	60"W x 96"H	60"W x 72"H	60"W x 54"H

Pressure Drop Data

Pressure drop ratings are based on AMCA Standard 500, using test set-up figure 5.3 for a damper installed with duct upstream and downstream. Static pressures are corrected to .075 lb./cu.ft. air density.

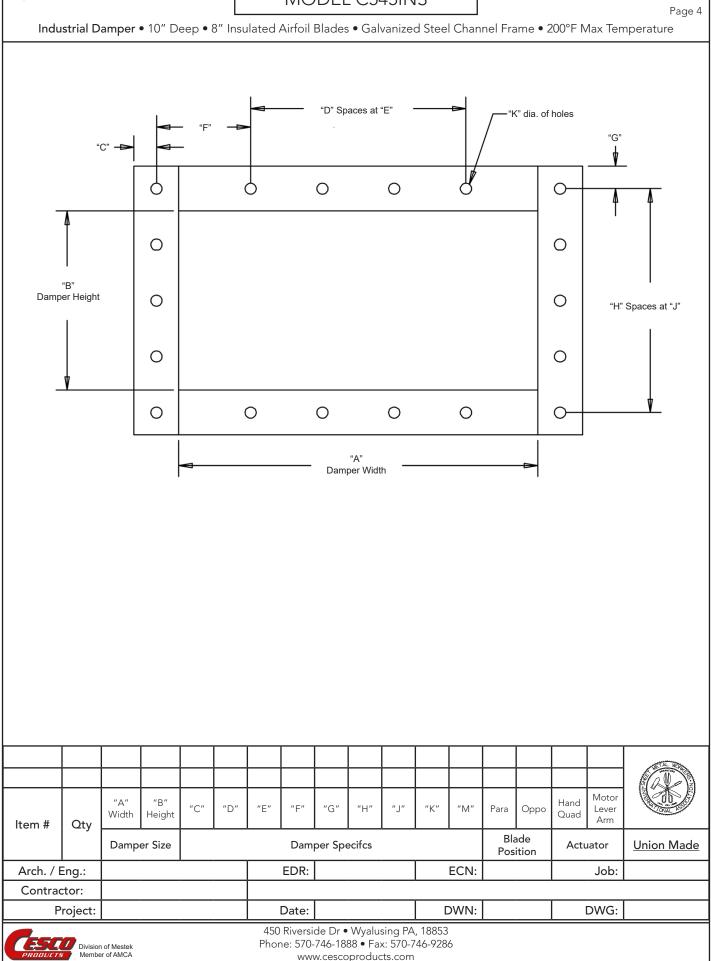








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