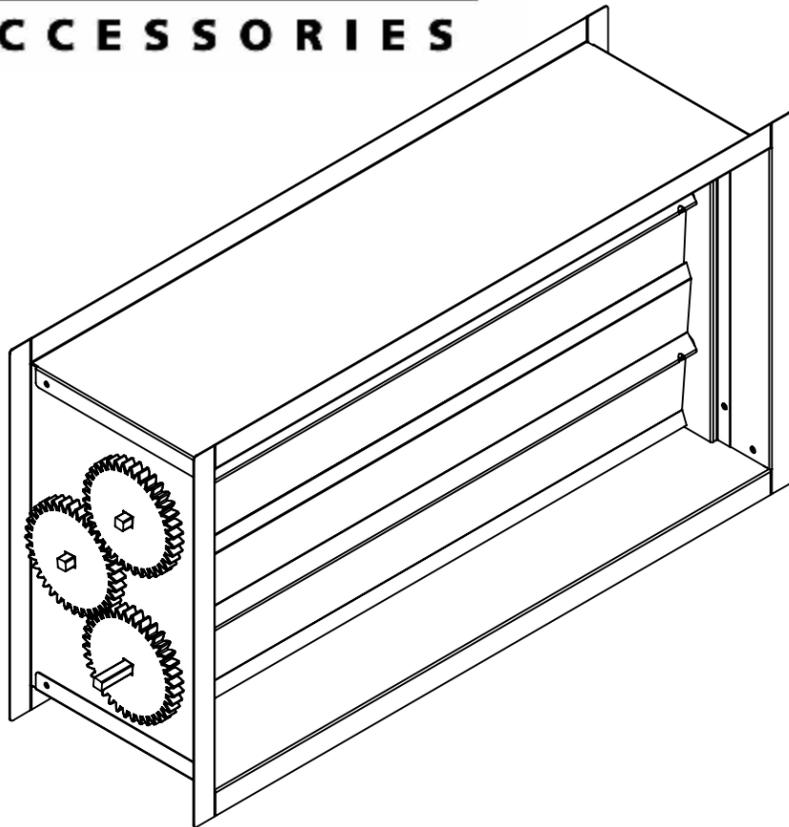




ECDP-4000 DAMPER

ACCESSORIES



Application

The ECDP-4000 is a low leak damper for the commercial HVAC industry. ECDP-4000 is typically used in an economizer application, and complies with California's Title 24, IECC and ASHRAE 90.1 damper leakage requirements.

The damper's leakage is less than 3 cfm/sq. ft. at 1in. wg. AMCA licensed as a Class 1A damper at 1 in.wg. Reference leakage Class section below.

Features

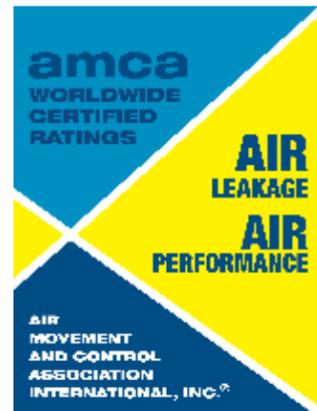
The ECDP-4000 dampers are constructed of galvanized steel, parallel blade operation and driven by external gears. Blades are attached to gears with metal shaft with bushing and gasket to prevent air leakage. Opposing side has a "hat" to prevent air leakage with a metal shaft and bushing. End of damper blades include bulb seal to ensure minimal air leakage.

Leakage Data

Tested for leakage in accordance with AMCA Standard 500-D, Figure 5.4A. Air leakage is based on operation between 32°F - 120°F (0°C - 49°C) Data is based on torque of 62 in. lb/ft² (7.01 N*m) applied to close and seat the damper during the test.

Damper Size Limitations

W X H	Minimum Size	Maximum Size
Inches	12 X 7	25.75 X 12.875
mm	304.8 X 177.8	654.1 X 327.1



CDI certifies that the model ECDP-4000 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with requirements of the AMCA Certified Ratings Programs. The AMCA Certified Ratings Seal applies to Air Leakage and Air Performance ratings.

ECDP-4000	Leakage Class*			
	1 in. wg	2 in. wg	3 in. wg	4 in. wg
	1A	1	1	1

*Most HVAC economizer applications static pressure are under 1in. wg

Max Allowable Leakage cfm/ft ² (Leakage Class Definitions)		
Class	at 1 in. wg	at 4 in. wg
1A	3	N/A
1	4	8
2	10	20
3	40	80

APPROVALS	DATE	TITLE/FILE NAME:
DRAWN: jhan	4/29/2025	ECDP-4000
CHECKED:		
DIMENSIONS ARE AS FOLLOWS: 1.00 in [25.40 mm]		
		THIS DRAWING & THE INFORMATION CONTAINED HEREIN IS THE CONFIDENTIAL, PROPRIETARY INFORMATION OF CRYSTAL DISTRIBUTION INC., & MAY NOT BE USED OR REPRODUCED WITHOUT THE APPROVAL OF CRYSTAL DISTRIBUTION, INC. ALL RIGHTS RESERVED
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		SHEET: 1 OF 2



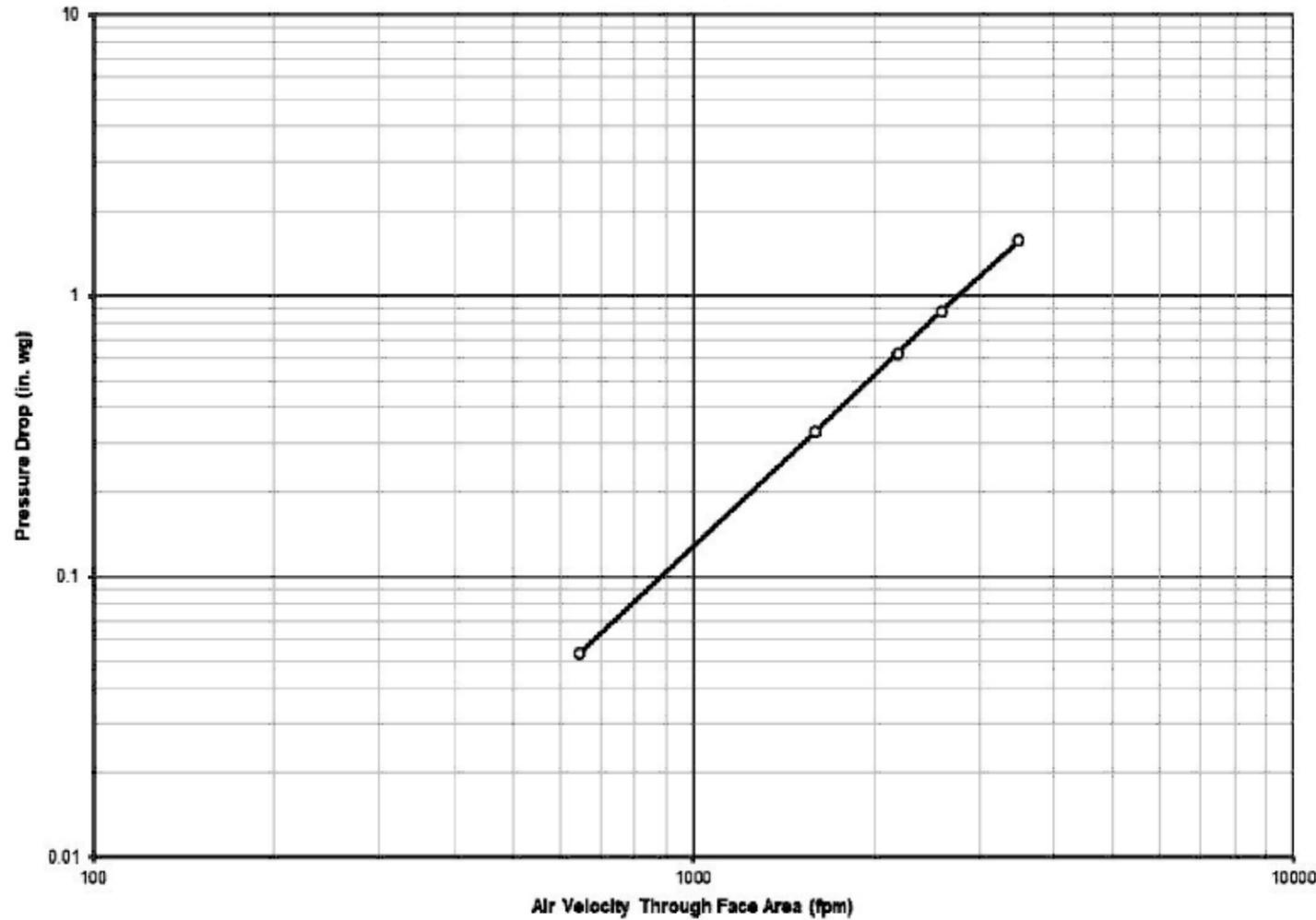
ECDP-4000 DAMPER

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Pressure Drop Data

Pressure drop tests were conducted in accordance with AMCA Standard 500-D, Figure 5.5

Test results below are for a ECDP-4000 12 in X 12.87 in damper



Test results below are for a ECDP-4000 25.75 in X 12.87 in damper

