

# BACKDRAFT DAMPER

MODEL – BD-AL 170



February 2025. Catalogue Atd Rev.0



**HUMITECHKOREA CO., LTD.**

# Backdraft Damper

MODEL-BD-AL 170

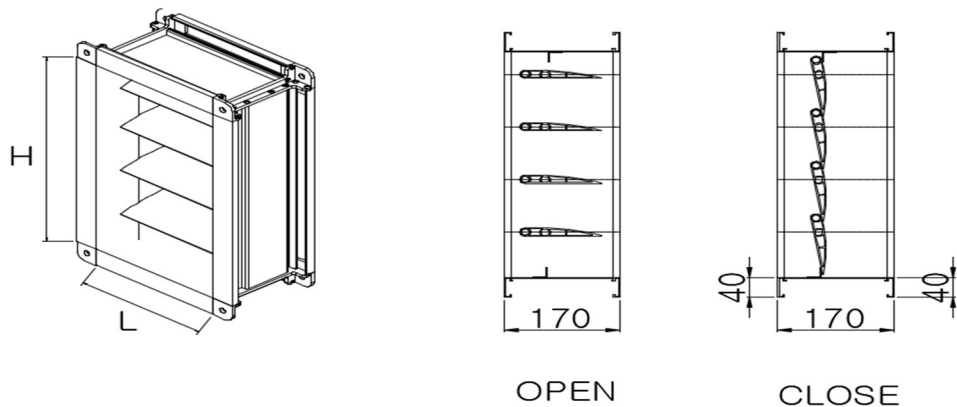
## Application

Backdraft Dampers open blades easily, requiring little pressure.

The blade is then closed by gravity to prevent backflow of air



## Dimensions



## Standard Construction

- Frame – A6063T5 channel shaped extruded aluminum
- Blade – A6063T5 double skin airfoil shaped extruded aluminum
- Link – A6063T5 extruded aluminum
- Axles – Ø12 plated hexagonal bar
- Bearing – Ø12 Ball Bearing

# BackDraft Damper

# MODEL-BD-AL 170

## PERFORMANCE DATA



HumitechKorea Co., Ltd certifies that the model BD-AL 170 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 the requirements of the AMCA Certified Ratings Program. The AMCA Seal applies to Air Leakage and Air Performance Ratings.



### Test Information

- Air Leakage is based on operation between 32°F and 120°F (0°C and 49°C)
- Tests for air leakage were conducted in accordance with ANSI/AMCA Standard 500-D, Figure 5.5 Alternate, in the intake direction
- Air performance testing conducted in accordance with ANSI/AMCA Standard 500-D, Figure 5.5

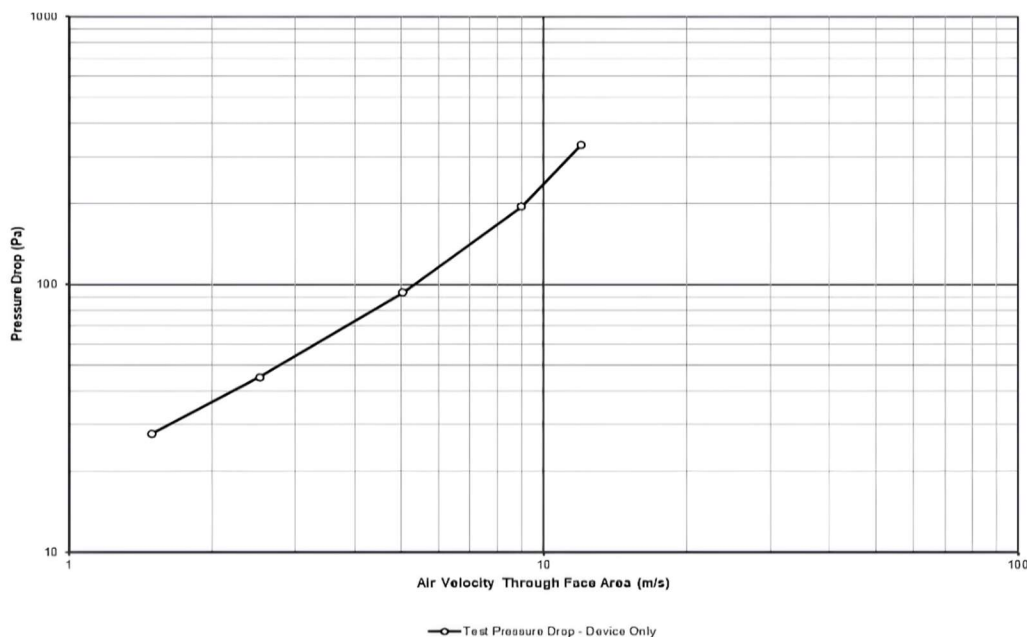
### Air Leakage

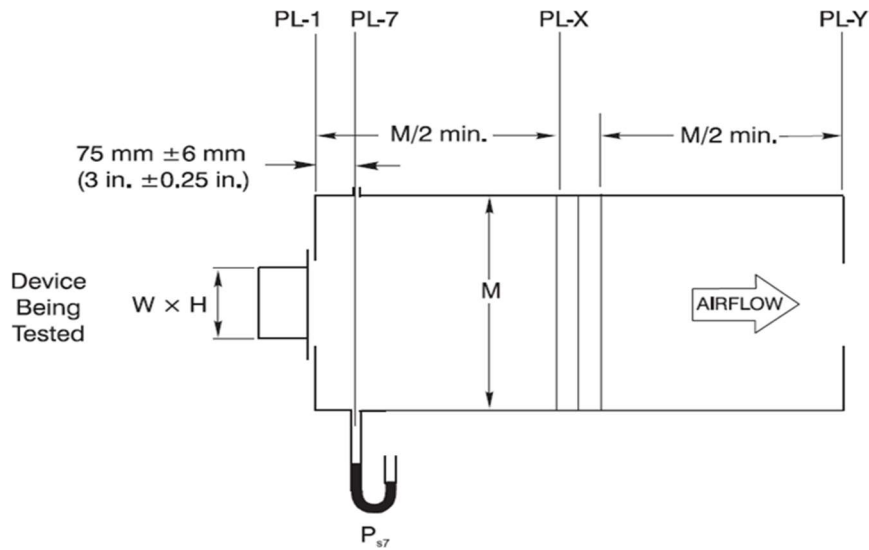
- Model BD-AL-170 with a width 50" (1270) and height 60" (1524) leak a maximum of: **- 3.384 cmm/m<sup>2</sup> or less at 1" w.g.**
- Model BD-AL-170 with a width 12" (305) and height 60" (1524) leak a maximum of: **- 7.428 cmm/m<sup>2</sup> or less at 1" w.g.**
- Model BD-AL-170 with a width 50" (1270) and height 12" (305) leak a maximum of: **- 9.336 cmm/m<sup>2</sup> or less at 1" w.g.**

### Air Performance

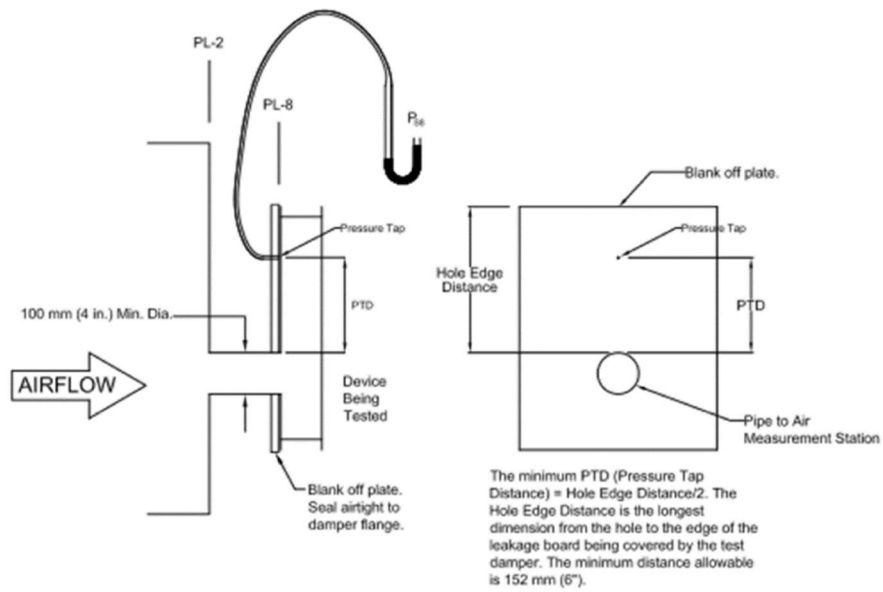
Performance data results from testing a 24" x 24" damper in accordance with AMCA Standard 500-D using Figure 5.5. All data has been corrected to represent standard air at 0.075 lb/ft<sup>3</sup> (1.20kg/m<sup>3</sup>).

**Pressure Drop**  
24" x 24" (610 x 610) Damper  
**Velocity vs Pressure Drop**





Test Figure 5.4 — Test Damper Setup with Outlet Chamber



Test Figure 5.5A for Leakage — Test Damper Setup with Inlet Chamber

 **HUMITECHKOREA CO., LTD.**

**Headquarters • Factory**

76, Parang-ro 466beon-gil, Seo-gu,  
Incheon Metropolitan City

TEL : 82-32-579-8866~9

FAX : 82-32-579-8870