

## Motorized Weather Louver - MWL

**B-50 Series**

Type : Motorized Louver

Model : MWL-GB-51A; Galvanized Construction.

Blade Type : Single skin - 3V Blades

**BETEC CAD.** manufactures Motorized weather louvers are square and rectangular type with parallel operation having single skin blade design. These louvers are subjected to medium pressure applications to achieve low leakage efficient operation.

The square and rectangular type Motorized louvers are designed for handling maximum air capacities at minimum pressure drop.

### Louver Performance Ratings

**Operating Pressure** - 4" wg (1000Pa) Max

**Velocity** - 1500 fpm (7.5 m/s)

### Standard Construction

#### Frame

5.1"x 1" x 18 gauge (130 x 28 x 1.2 mm) roll formed galvanized steel 'C' Channel.

#### Blades

6" (152mm) wide, 1.5 mm thick (16 gauge) galvanized steel 3V type roll formed .

#### Bushes

Bronze.

#### Mechanical Linkage

Galvanized steel linkages concealed within the frame.

#### Axles

12mm square galvanized steel.

#### Gasket

Foam gasket.

#### Motor

On/Off

#### Finish

Mill finish.

### Optional Fittings

#### Screen

Galvanized steel 0.4mm Thick

S-3 SS Bird screen

S-10 SS fly screen

#### Motor

Modulate / Spring Return

#### Finish

Available with RAL Powder coating, please specify color.



MWL-GB-51A

### Features

- Side jambseal provides tight closure.
- AMCA 500 - L
- Low pressure drop.
- Aluminum construction for low maintenance and high resistance to corrosion.
- Linkage concealed within the frame not exposed to weather conditions.

### Optional Construction Details

**Frame** : Thickness up to 3 mm

**Frame Depth** : Up to 150 mm

**Blade** : Thickness up to 2 mm

**Blade width** : Up to 150 mm

B- 50 Series Single skin Blade Model details			
Material Construction			
Model	Frame	Blade	Actuator
MWL-GB-51	GI	GI	On / Off 230V*
MWL-GSB-51	GI	SS	On / Off 230V*
MWL-SB-51	SS	SS	On / Off 230V*

Any Combination of W x H									
MWL-B-51									
Width in Inches	4"	6"	10"	12"	16"	20"	30"	36"	48"
Height in inches	4"	6"	10"	12"	16"	20"	30"	36"	40"

Note: Maximum single module construction - 48" x 40"  
Multiple module available with mullion.

### Note :

Please contact **BETEC CAD.** for customized design & additional information.

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.



## Motorized Weather Louver - MWL

**B-50 Series**

**Type :** Motorized Louver

**Model :** MWL-GB-52A; Galvanized Construction.

**Blade Type :** Aerofoil

**BETEC CAD.** Manufactures motorized weather louvers are square and rectangular type with parallel operation having Aerofoil type double skin blade design. These louvers are subjected to medium pressure applications to achieve low leakage and uniform air distribution.

The square and rectangular type Motorized louvers are designed for handling maximum air capacities at minimum pressure drop.

### Louver Performance Ratings

**Operating Pressure -** 4" wg (1000Pa) Max

**Velocity -** 1500 fpm (7.5 m/s)

### Standard Construction

#### Frame

5.1"x 1" x 18 gauge (130 x 28 x 1.2 mm) rollformed galvanized steel 'C' Channel.

#### Blades

6" (152mm) wide, 1 mm thick (20 gauge) aluminium extruded.

#### Bushes

Bronze.

#### Mechanical Linkage

Galvanized steel linkages concealed within the frame.

#### Axles

12mm square galvanized steel.

#### Gasket

Foam gasket.

#### Motor

On/Off

#### Finish

Mill finish.

### Optional Fittings

#### Screen

Galvanized steel 0.4mm Thick

S-3 SS Bird screen

S-10 SS fly screen

#### Motor

Modulate / Spring Return

#### Finish

Available with RAL Powder coating, please specify color.



MWL-GB-52A

### Features

- Side jambseal provides tight closure.
- AMCA 500 - L
- Low pressure drop.
- Aluminum construction for low maintenance and high resistance to corrosion.
- Linkage concealed within the frame not exposed to weather conditions.

### Optional Construction Details

**Frame** : Thickness up to 3 mm

**Frame Depth** : Up to 150 mm

**Blade** : Thickness up to 2 mm

**Blade width** : Up to 150 mm

B-50 Series Aerofoil Blade Models details			
Material Construction			
Model	Frame	Blade	Actuator
MWL-GB-52	GI	GI	On / Off 230V*
MWL-GAB-52	GI	AL	On / Off 230V*
MWL-SB-52	SS	SS	On / Off 230V*

Any Combination of W x H									
MWL-B-52									
Width in Inches	4"	6"	10"	12"	16"	20"	30"	36"	48"
Height in inches	4"	6"	10"	12"	16"	20"	30"	36"	40"

Note: Maximum single module construction - 48" x 40"  
Multiple module available with mullion.

### Note :

Please contact **BETEC CAD.** for customized design & additional information.

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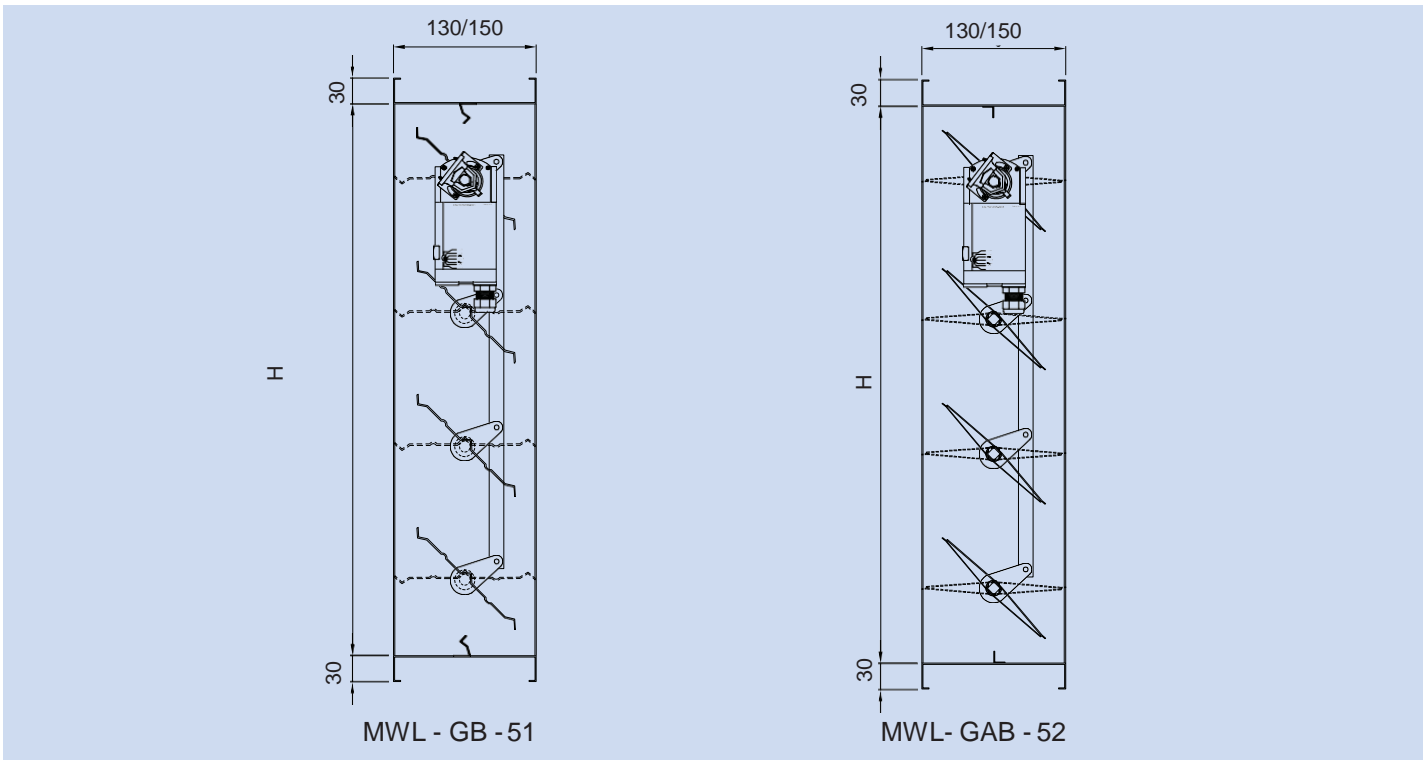


## Motorized Weather Louver - MWL

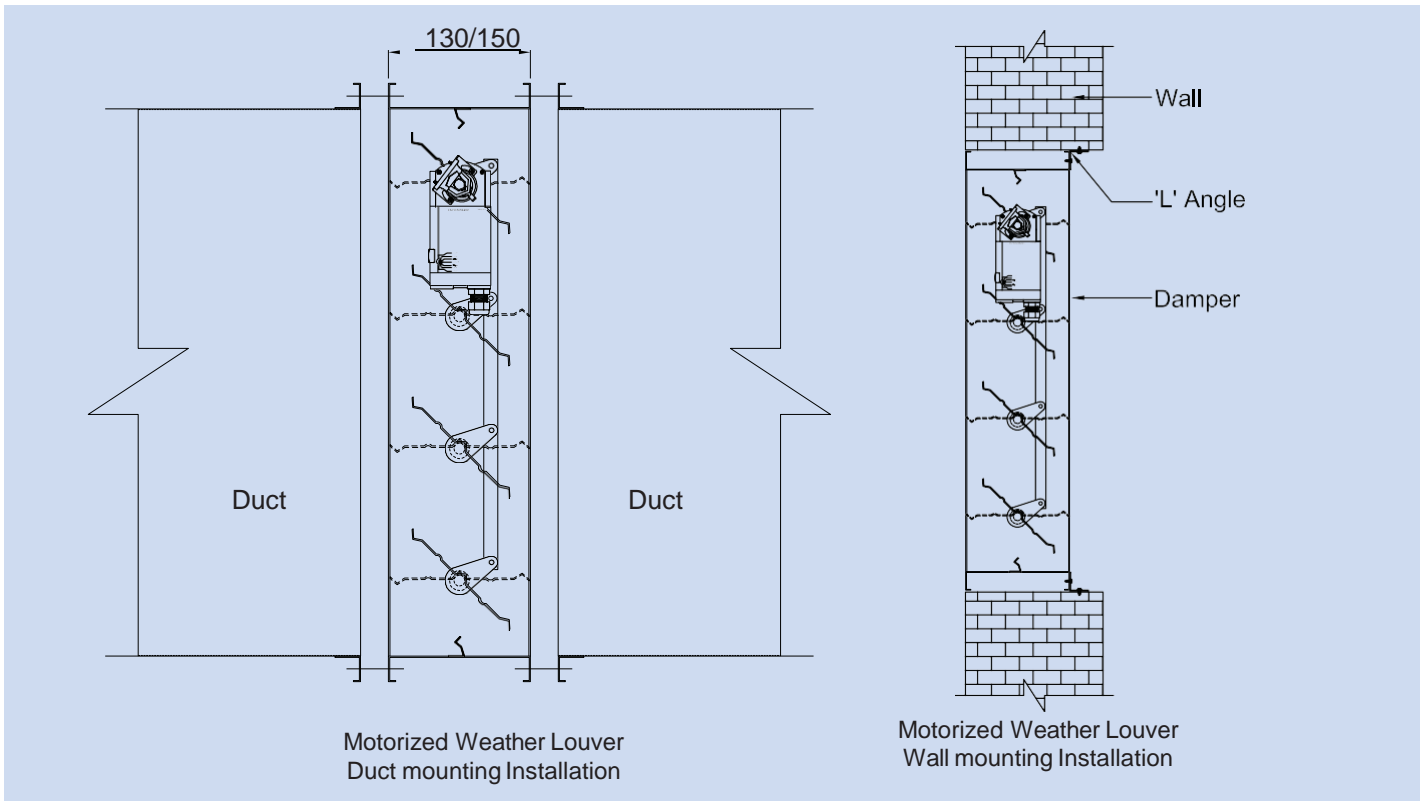
## B-50 Series

Constructional Details

Models : MWL-GB-51 / MWL-GB-52



### Installation Details



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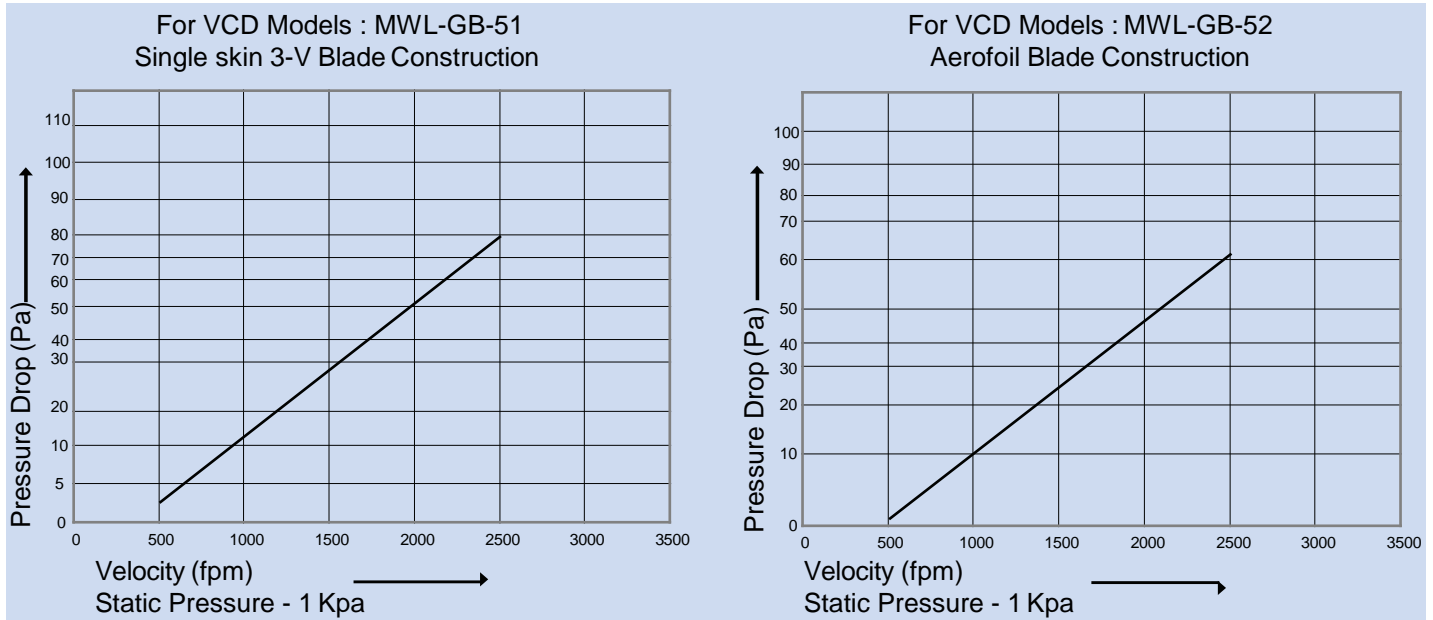


## Motorized Weather Louver - MWL Engineering And Performance Data

**B-50 Series**

Models : MWL-GB-51/52A

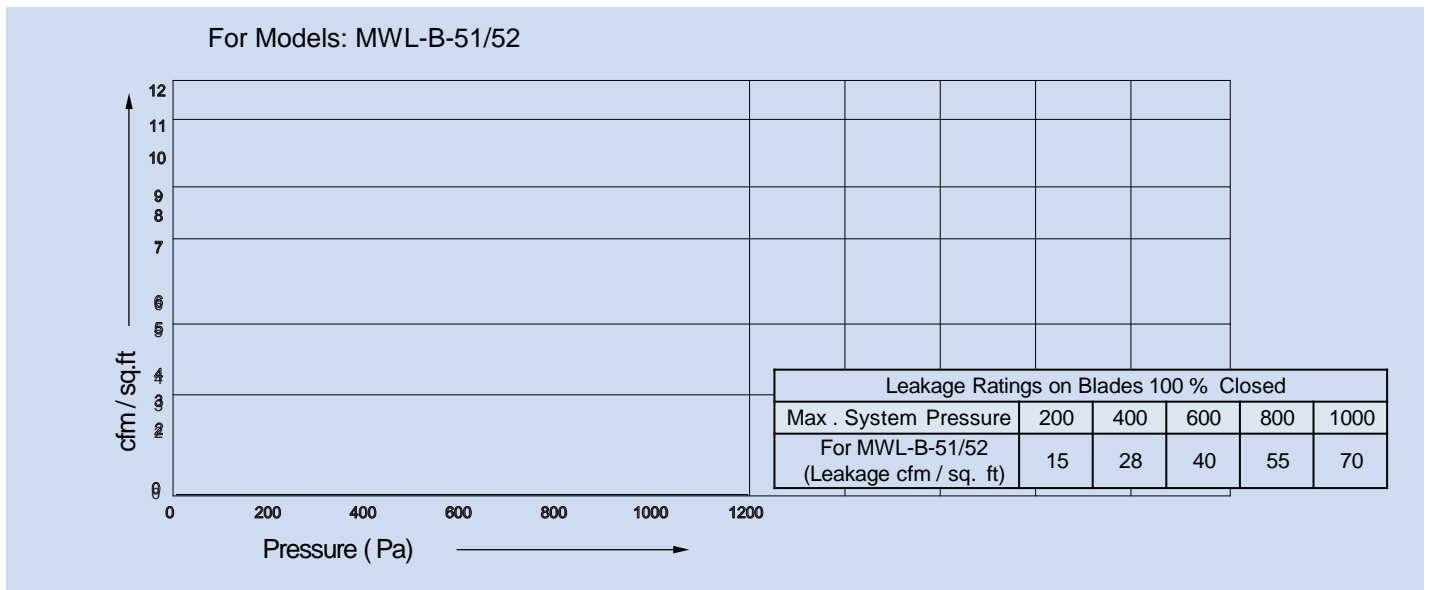
Pressure Losses Vs Face Velocity



Airflow V/S Pressure Damper 100 % (full) open.					
Max . System Pressure 1000-Pa					
Air Velocity (fpm)	500	1000	1500	2000	2500
MWL-B51-A (3-V Blade single skin) Pressure drop (Pa)	3.2	12.8	28.8	51.2	80
MWL-B52 -A (Aerofoil Blade) Pressure drop (Pa)	2.8	11	25	46	63

### Leakage Characteristics

Models : MWL-GB-51/52 - Leakage Curve (Blades 100% Closed Position)



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