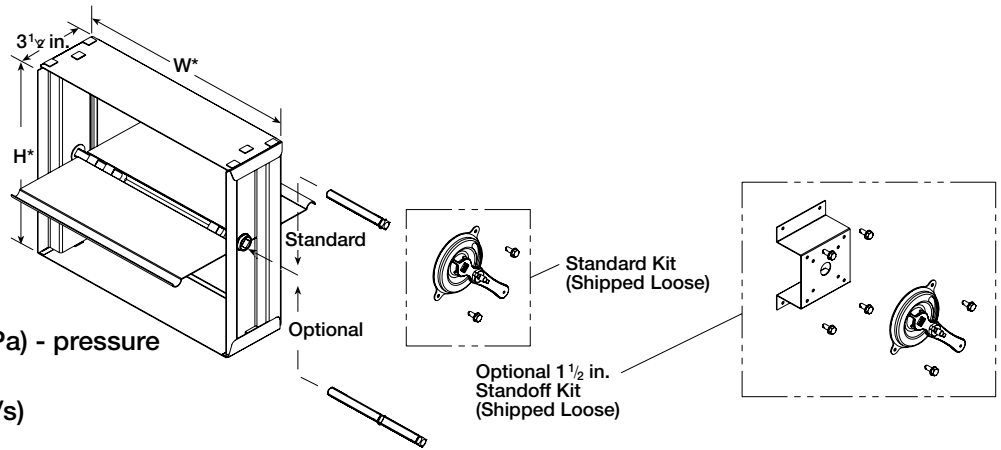


Single Blade Manual Balancing Damper

Application and Design

Model MBD-10M is a manual balancing damper designed to regulate flow of air in a HVAC system. They are not intended to be used in applications as a positive shut off or for automatic control.

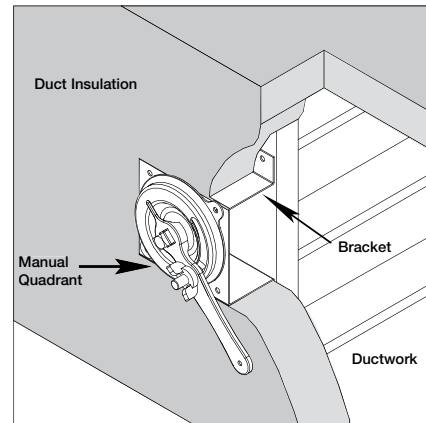


Ratings

- Pressure: 1.0 in. wg (0.25 kPa) - pressure differential
- Velocity: 2000 fpm (10.2 m/s)
- Temperature: 180°F (82°C)

*W&H dimension furnished approximately 1/4 in. (6mm) undersize.

Construction	Standard
Frame Material	Galvanized Steel
Frame Thickness	18 ga. (1.3mm)
Blade Material	Galvanized Steel
Blade Thickness	20 ga (1mm)
Axle Material	1/2 in. (13mm) Plated Steel
Bearings	Synthetic (acetal) flanged sleeve type
Operator	3/8 in. (10mm) sq. locking manual quadrant
Operating Shaft	3/8 in. (10mm) sq., 2 1/2 in. (64mm) long extension



Size Limitation		
W x H	Minimum	Maximum
in. (mm)	8 x 4 (203 x 102) ; 10 x 4 (254 x 102) with standoff bracket	36 x 12 (914 x 305)

Options (at additional cost)

- 1 1/2 in. (38mm) standoff bracket (with extended pin) to accommodate for the thickness of external duct insulation.
- 2 in. (51mm) standoff bracket

Features

- Flanged sleeve bearings to minimize leakage through axle penetrations in jambs.
- Flanged sleeve bearings allow for vertical blade mounting.

Specifications

Manual balancing dampers meeting the following specifications shall be furnished and installed where shown on plans and/or as described in schedules.

Dampers shall consist of: a 18 ga. (1.3mm) galvanized steel frame with 3 1/2 in. (89mm) depth; blades fabricated from 20 ga. (1mm) galvanized steel; 3/8 in. (10mm) sq. plated steel axles; synthetic (acetal) flanged sleeve bearings to minimize axle leakage and allow for vertical blade mounting. Damper manufacturer's printed application and performance data including pressure, velocity and temperature limitations shall be submitted for approval showing damper suitable for pressures to 1.0 in. wg (249 Pa), velocities to 2000 fpm (10.2 m/s) and temperatures to 180°F (82°C). Testing and ratings to be in accordance with AMCA Standard 500-D.

Basis of design is Greenheck model MBD-10M.

NOTE: Temperatures in excess of 180°F (82°C) require special consideration.