

PRODUCT OVERVIEW OPTIONS AND ACCESSORIES FOR CEILING DIFFUSERS

MOUNTING FRAMES

- Surface mount adapter frames for plaster and sheet rock ceilings are available in aluminum. They simplify installation, save time and allow ceiling plenum access.

OPTIONS

- A selection of optional items that are available on ceiling diffusers.

FINISHES

- Selection of standard and non-standard finishes to choose from.
- Many diffusers are available with baked enamel paint in custom colors to suit architect.

AIR BALANCING DEVICES

- Dampers for round and square necks.

Effective air balancing of an HVAC System requires the correct selection, specification and installation of the right product to suit the system design.

MAP offers a comprehensive range of models and options to cover all applications.

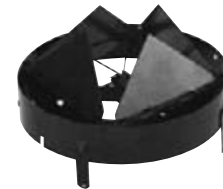
MAP balancing devices are:

- Easy to select and specify. Many items can be ordered or specified as diffuser accessories.
- Designed to offer a smooth, accurate and predictable response during adjustment for precise air metering.
- Designed to provide quick access and adjustment.
- Engineered with attention to optimizing airflow, in order to minimize noise, turbulence and pressure drop.

Model ADF
Drywall/Plaster Frame
Surface Mount
Ceiling Adapter



Model ROD
Radial Opposed
Blade Damper



Model RSD
Radial Sliding
Blade Damper



Model SOBD
Opposed Blade Damper
Steel, Neck Mount



Mounting Frames

MODELS: ADF (Aluminum) Drywall/Plaster Frame

The ADF Series are for mounting in finished drywall or plaster ceilings to accept any standard lay-in type grille, register, diffuser or other ceiling component. Installation of the air outlet is as simple as inserting them in a standard lay-in T-Bar type ceiling system.

The ADF simplifies and reduces installation time compared with surface mount type diffusers. This is especially true where flexible duct is utilized.

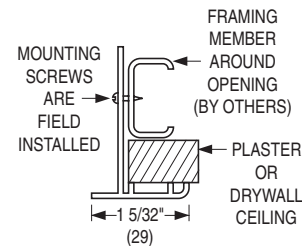
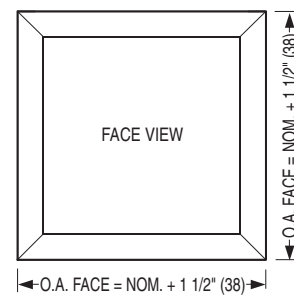
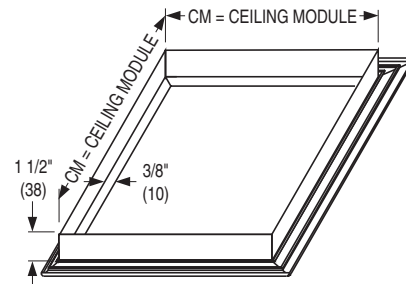
A major benefit is that the ADF Series allows access to the ceiling plenum space above for maintenance purposes without the need for separate access doors. The finished appearance is professional and aesthetically pleasing.

Standard Finish: AW Appliance White baked enamel. Other finishes are available.

IMPERIAL MODULES		METRIC MODULES
Imperial Units (inches)	S.I. Units (mm)	S.I. Units (mm)
12 x 12	305 x 305	300 x 300
16 x 16	406 x 406	400 x 400
20 x 20	508 x 508	500 x 500
24 x 12	610 x 305	600 x 300
24 x 24	610 x 610	600 x 600
36 x 24	914 x 610	900 x 600
48 x 12	1219 x 305	1200 x 300
48 x 24	1219 x 610	1200 x 600
60 x 12	1524 x 305	1500 x 300

Ceiling opening = CM + 1/4" (6)

Model ADF requires framing of the ceiling opening with 'C' channel or wood studs for attachment with mounting screws (by others).



Model ADF

Options and Finishes

OPTIONS:

EX External Insulation

This is offered as an option on the majority of MAP ceiling diffusers. The insulation has a foil back.

EQT Earthquake Tabs

Earthquake (seismic) retaining safety tabs are available; factory installed on diffusers when required by local building code that units be independently restrained and safety wired to supporting structure.

SC Safety Chain

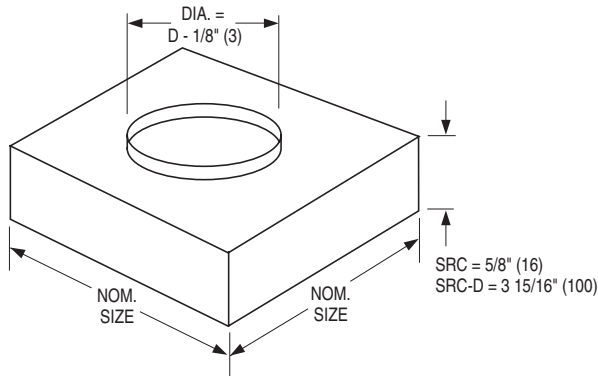
An optional safety chain is available on all of Manufactured Air Product's round ceiling diffusers.

GK Foam Gaskets

Foam gasket is available on a selection of surface mount diffusers.

SRC Square to Round Transition Collar

Transition collars are for use on MAP square neck diffusers where a round duct connection is required.



SQUARE NECK SIZE (INCHES)	ROUND NECK SIZE D (INCHES)
6 x 6	4, 5, 6
9 x 9	6, 7, 8, 9
12 x 12	6, 8, 9, 10, 12
15 x 15	6, 8, 10, 12, 14, 15
18 x 18	6, 8, 10, 12, 14, 15, 16, 18
21 x 21	6, 8, 10, 12, 14, 15, 16, 18, 20

FINISHES:

BAKED ENAMEL PAINT

AW Appliance White (standard)

A white finish that is currently the industry standard. Closely matches standard finishes supplied by the majority of T-Bar ceiling system manufacturers. (No additional cost).

AL Aluminum

Contains suspended metal particles to give the appearance of a silver grey metallic or anodized finish. (No additional cost).

BA Black Interior/Appliance White Face

Optional on perforated diffusers. AW Appliance White is applied on the perforated face and BK Black is applied on the interior of the backpan for a discreet appearance. (No additional cost)

B

CEILING DIFFUSERS

Air Balancing Devices

Radial Opposed Blade Damper

A unique method of controlling volume through a diffuser providing premium design quality and performance. The multi-blade perimeter design offers true radial flow at any setting.

A screwdriver slot, accessible through the diffuser, requires only a half turn to adjust from fully closed to fully open. The damper is designed to fit directly on the neck of the diffuser. Simple, convenient and accurate installation and operation.

Model ROD

	Nominal Size (inches)							Nominal Size (mm)						
	6	8	10	12	14	15	16	152	203	254	305	356	381	406
A	5 7/8	7 7/8	9 7/8	11 7/8	13 7/8	14 7/8	15 7/8	149	200	251	302	352	378	403
B	1 5/8	2 1/2	2 1/4	2 7/8	3 3/8	3 3/4	4 3/8	41	64	57	73	86	95	111
C	1 5/8		2 1/2					41		64				

Radial Sliding Blade Damper

The **Model RSD** is a neck mounted radial sliding blade damper used in round neck diffuser applications to provide fine volume control. Gang operated radial blades slide at right angles to the duct with minimal protrusion above the diffuser neck; allowing the damper to work effectively in flexible duct applications.

Available in sizes 6", 8", 10", 12" and 14" (152, 203, 254, 305 and 356).

Model RSD

B

CEILING DIFFUSERS

Air Balancing Devices and Directional Control Devices

OPPOSED BLADE DAMPERS

MAP Opposed Blade Dampers feature heavy gauge, roll-formed, corrosion-resistant steel or extruded aluminum blades and frame with miscellaneous steel components.

The gang operated multi-blade design with blades closing at 45 degrees permits fine volume control for accurate balancing with minimum disturbance to the airflow pattern. Blades are individually pivoted on 1" (25) centers.

DIFFUSER MOUNT MODELS:

SOBD Steel

AOBD Aluminum

This style of damper mounts directly on the neck and are sized to suit most **MAP** diffusers. Uses steel barbed S-clips for easy field mounting or removal when ordered separately. Supplied as standard with a screwdriver slot operator (Type SL).

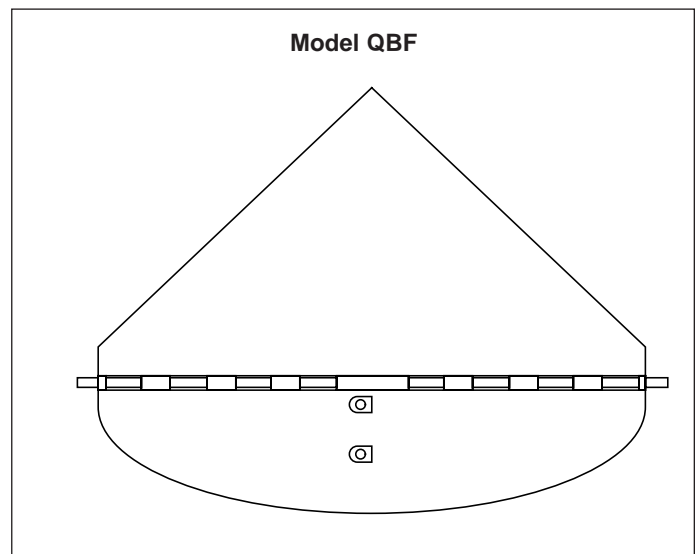
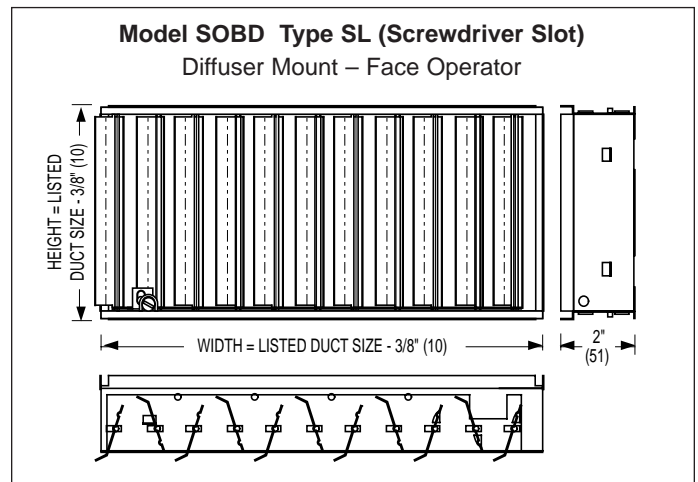
Can be specified as an integral part of the diffuser model by adding a - D (steel) or -DA (aluminum) suffix to the diffuser model.

Type SL Operator

The SL Operator incorporates a screwdriver slot, which adjusts from the face of the diffuser. This operator is the standard supplied when ordered separately.

Quadrant Blanks for SLD and SLDA Round Neck Diffusers

The **Model QBF Quadrant Blanks** are for insertion into the diffuser neck to provide one, two or three-way discharge as may be required to accommodate nearby airflow obstructions. Quadrant Blanks are available for all neck sizes. Hinge pins on the unit clip easily into pre-set holes on the collar for simple installation.



B
CEILING DIFFUSERS