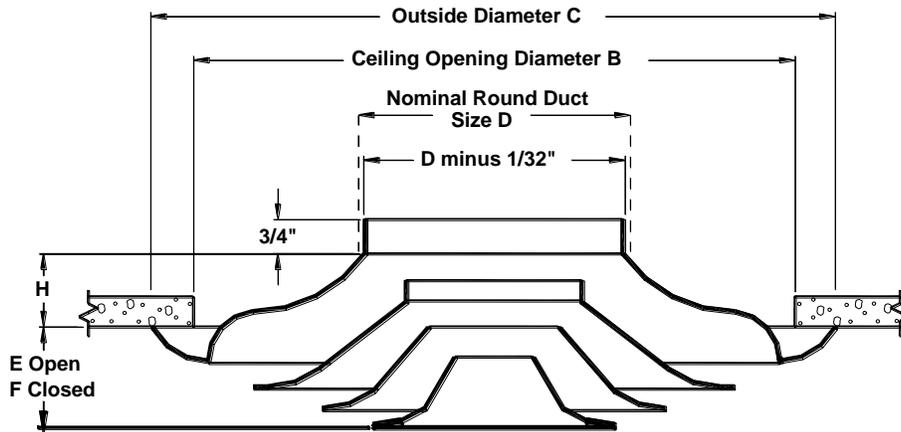


## Round Ceiling Diffuser • Steel • Adjustable

Model: TMRA • Horizontal to Vertical Discharge Patterns

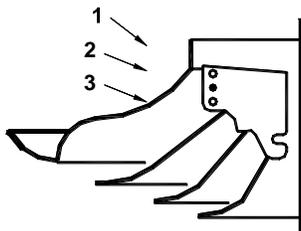


Nominal Round Duct Size D	B	C	E	F	H
6	12	13 1/2	1 7/16	11/16	1 5/8
8	16	18	1 13/16	7/8	2 1/8
10	20	22 1/2	2 1/4	1 1/8	2 5/8
12	24	27	2 11/16	1 1/4	3 1/4
14	28	31 1/2	3 1/8	1 3/16	3 3/4
16	32	36	3 5/16	1 5/16	4 1/4
18	36	40 1/2	3 3/4	1 1/2	4 7/8
20	40	45 1/2	4 1/8	1 5/8	5 3/8
24	48	54 1/2	4 7/8	1 7/8	6 1/2
30	60	67 1/2	5 9/16	1 7/8	8
36	60	67 1/2	5 9/16	1 7/8	8

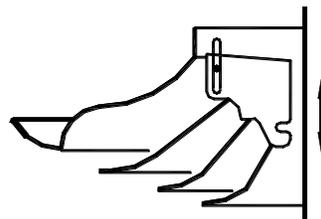
### Adjustment Types

Check  if provided.

Type 1 3 Fixed Positions

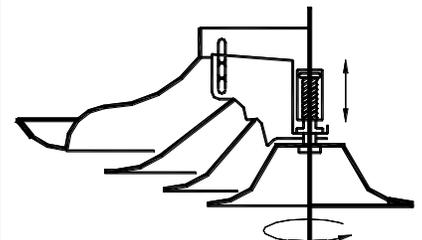


Type 2 Sliding



Available in duct sizes 6 through 12 inches.

Type 3 Rotating

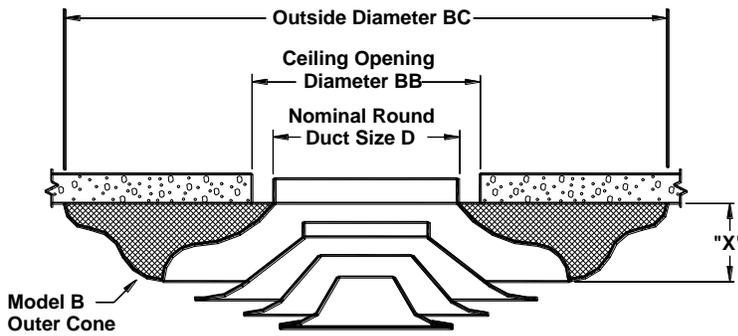


Available in duct sizes 6 through 36 inches.

Dimensions are in inches.

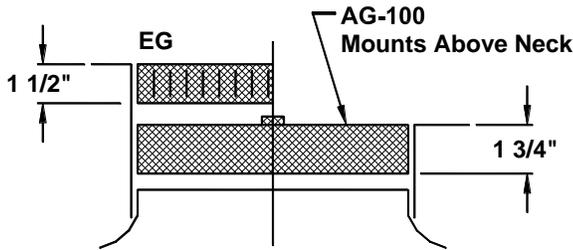
Accessories (Optional) Check  if provided.

Model B Outer Cone

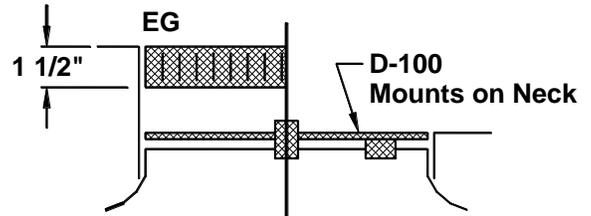


Nominal Round Duct Size D	BB	BC	X
6	7	17 3/4	1.95
8	9	23 1/4	2.6
10	11	29	3.25
12	13	34 7/8	3.9
14	15	40 5/8	4.55
16	17	46 3/4	5.2
18	19	51 3/8	5.85
20	21	56 1/4	6.5
24	25	67	7.8
30	N/A	N/A	N/A
36	N/A	N/A	N/A

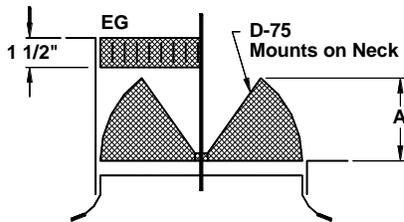
Model AG-100 Radial Sliding Blade Damper  
 Model EG Equalizing Grid



Model D-100 Radial Sliding Blade Damper  
 Model EG Equalizing Grid

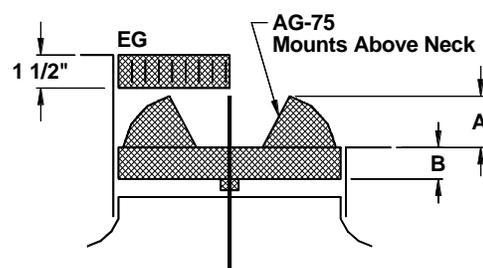


Model D-75 Opposed Blade Damper  
 Model EG Equalizing Grid



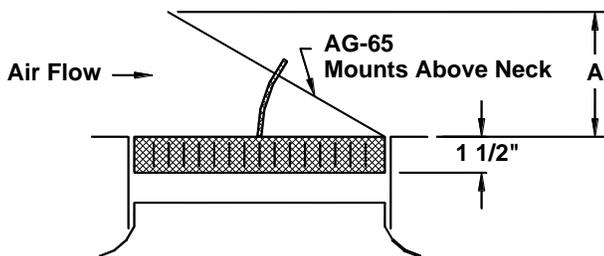
Model D-75 damper is available in duct sizes 6 thru 12 inches only.

Model AG-75 Opposed Blade Damper  
 Model EG Equalizing Grid

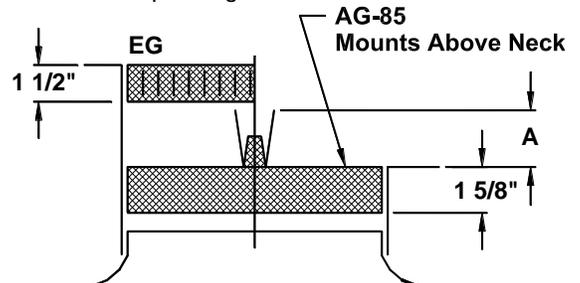


Size	B
6-12	1 1/2
14-36	2 1/8

Model AG-65 Combination Damper and Equalizing Grid



Model AG-85 Butterfly Damper  
 Model EG Equalizing Grid



Accessories (Continued)

Dimension "A" in Inches, for Dampers Shown

Accessories	Nominal Round Duct Sizes										
	6	8	10	12	14	16	18	20	24	30	36
AG-100	—	—	—	—	—	N/A	N/A	N/A	N/A	N/A	N/A
D-100	—	—	—	—	—	N/A	N/A	N/A	N/A	N/A	N/A
D-75	2 3/8	3 1/4	4 1/8	4 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AG-85	2 1/2	3 1/2	4 1/2	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	11 1/2	N/A	N/A
AG-65	3 3/8	4 1/2	5 1/2	7 1/8	8 5/8	9 7/8	11	12 1/4	14 7/8	17 1/2	21 3/4
AG-75	2 3/4	3 5/8	4 1/2	5 3/8	23/4	3 1/2	4 1/8	4 7/8	5 5/8	6 1/8	7 5/8

Note: Model AG-100 and D-100 dampers have radial blades that slide in a horizontal plane. For that reason, no opening clearance "A" is dimensioned.

On the Model TMRA with Type 3 Rotating Adjustment, the adjusting shaft projects above the diffuser on Sizes 14 through 36. The maximum amount of the projection is shown in the table at right. This projection must be added, along with Dimension "A" above, to the overall height of the diffuser and its accessories.

TMRA, Adjustment Type 3. Overall Height Correction.

Nominal Round Duct Size	14	16	18	20	24	30	36
Add to Height (Inches)	2 1/2	2 5/8	2 3/4	3	3 1/8	4 3/8	4 3/8

Standard Finish: #26 White

General Description

- Model TMRA adjustable round ceiling diffusers are designed for both heating and cooling applications. The discharge pattern can be adjusted from horizontal to vertical.
- Uniform 360 degree discharge pattern.
- Excellent performance in variable air volume applications.
- Type 1, with 3 fixed cone positions, is adjusted by removing the 3 inner cones as a unit and repositioning 6 screws. Available in duct sizes 6 through 36 inches.
- Type 2 is adjusted by sliding the 3 inner cones up or down. Available in duct sizes 6 through 12 inches.
- Type 3 is adjusted by rotating the center cone. Available in duct sizes 6 through 36 inches.
- Optional Type B outer cone reduces ceiling smudging. Also useful where plenum height or space for the ceiling opening is limited. Available for diffusers with duct sizes 6 through 24 inches.
- Spring lock allows easy removal and replacement of the 3 inner cones.
- Material is steel.
- For model TMRA with neck sizes of 12" to 36" diameter, a retainer cable is provided to allow the inner cone to hang during maintenance of the diffuser.

This submittal is meant to demonstrate general dimensions of this product. The drawings are not meant to detail every aspect of the product. Drawings are not to scale. Titus reserves the right to make changes without written notice.