



MANUAL – INSTALLATION + SERVICE

Half Round 180° Displacement Diffuser

DR180 Series

Revision #: 01 – Issue Date: 03/25/14

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PRICE[®]

HALF ROUND 180° DISPLACEMENT DIFFUSER

INSTALLATION INSTRUCTIONS

DR180 w/Duct Cover Installation

1. Remove trim cover (Item 4) by putting finger in opening (Detail C) at top or bottom and pulling slowly to prevent bending of trim piece. Keep close for use in final step of installation.
2. A) Mounting angles are shipped attached to the diffuser. Remove two screws holding the mounting angle to corner extrusion (Detail C).

B) Locate and install 1" x 1" x .100" mounting angles to the wall in desired location. The mounting angles shall be installed perpendicular to the floor as per Figure 1 and spaced apart as per dimension given in Table 2. Failure to position angles upright and perpendicular to the floor will result in poor installation. **Fasteners supplied by others.** All mounting angles can be installed at same time.
3. Install diffuser (Item 2) over the mounting angles so that the back of the diffuser is flush with the wall (Figure 3,4,& 5). Fasten diffuser to mounted angles with screws (Item 5). Use minimum 2 screws per side of diffuser.
4. Install duct as required.
5. Install duct cover mounting angle in line with the diffuser mounting angle. If this is the last section of duct cover cut the mounting angle to fit 1" below the ceiling height or the height of the duct cover.
6. Tap trim cover into place with rubber mallet or neoprene hammer. Care should be taken not to mark/damage trim cover, diffuser or surrounding wall.

Table 1		
Item #	Description	Note
1	Mounting Angle x 2	Attached to Diffuser for shipping
2	DR180 Diffuser x 1	
3	DR180 Duct Cover	1 unit up to 60"/multiple units over 60"
4	Cover Trim x 2	Attached to Diffuser for shipping
5	Screws	Attached to Diffuser for shipping
6	Top Trim Cover	Attached to Diffuser for shipping

Table 2	
NOM Width	Angle Width - 1.5"
18	16.5"
24	22.5"
30	28.5"
36	34.5"
42	40.5"
48	46.5"
Other	width - 1.5"

HALF ROUND 180° DISPLACEMENT DIFFUSER

INSTALLATION INSTRUCTIONS

FIGURES 1 - 8 ▼



Detail A

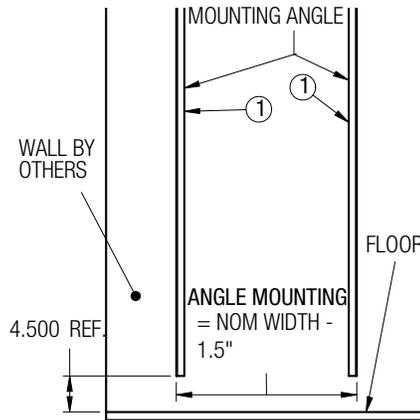


Figure 1

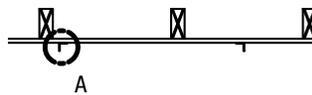


Figure 2

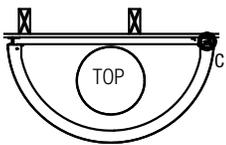


Figure 8

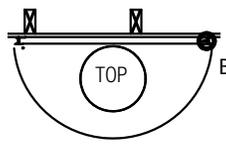
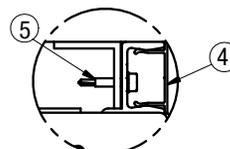
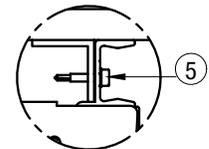


Figure 5



Detail C



Detail B

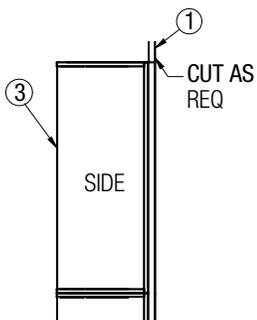


Figure 7

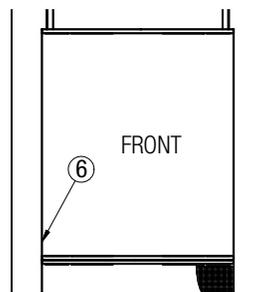


Figure 6

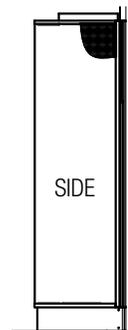


Figure 4

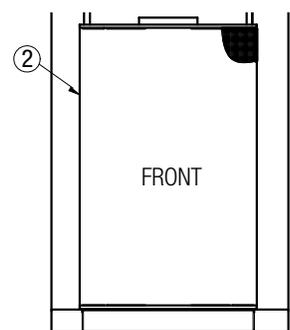


Figure 3

HALF ROUND 180° DISPLACEMENT DIFFUSER

INSTALLATION INSTRUCTIONS

DR180 No Duct Cover Installation

1. Remove trim cover (Item 4) by putting finger in opening (Section E-E) at bottom and pulling slowly to prevent bending of trim piece. Keep close for use in final step of installation.
2. Mounting angles are shipped attached to the diffuser. Remove two screws holding the mounting angle to corner extrusion (Section E-E).
3. Locate and install 1" x 1" x .100" mounting angles to the wall in desired location. The mounting angles shall be installed perpendicular to the floor as per Figure 10 and spaced apart as per dimension given in Table 2. Failure to position angles upright and perpendicular to the floor will result in poor installation. **Fasteners supplied by others.**
4. Install duct as required.
5. Install diffuser (Item 2) over the mounting angles so that the back of the diffuser is flush with the wall (Figure 13 & 14). Fasten diffuser to mounted angles with screws (Item 5). Use minimum 2 screws per side of diffuser. Base cover may need to be removed to access duct for bottom ducted units if one was supplied.
6. Tap trim cover into place with rubber mallet or neoprene hammer. Care should be taken not to mark/damage trim cover, diffuser or surrounding wall.

Item #	Description	Note
1	Mounting Angle x 2	Attached to Diffuser for shipping
2	DR180 Diffuser x 1	
3	DR180 Duct Cover	1 unit up to 60"/multiple units over 60"
4	Cover Trim x 2	Attached to Diffuser for shipping
5	Screws	Attached to Diffuser for shipping
6	Top Trim Cover	Attached to Diffuser for shipping

Inlet location	Tolerance +/- .063"
Top Round	Centered horizontally & 1.375" from wall
Top Square	Centered horizontally & 1.375" from wall
Bottom	Centered horizontally & 1.375" from wall
Rear	Centered horizontally & vertically

NOM Width	Angle Width - 1.5"
18	16.5"
24	22.5"
30	28.5"
36	34.5"
42	40.5"
48	46.5"
Other	width - 1.5"

HALF ROUND 180° DISPLACEMENT DIFFUSER

INSTALLATION INSTRUCTIONS

FIGURES 10 - 14 / SECTION E-E ▼

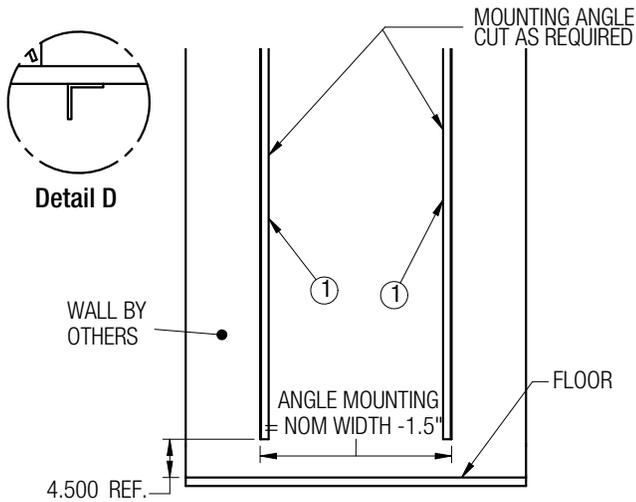


Figure 10

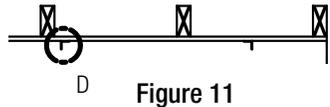


Figure 11

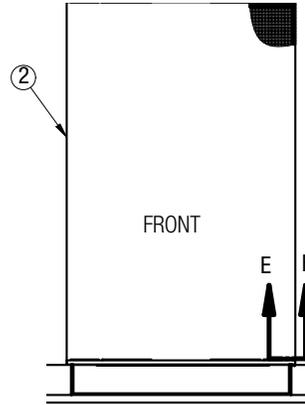


Figure 12

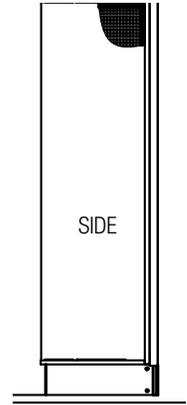


Figure 13

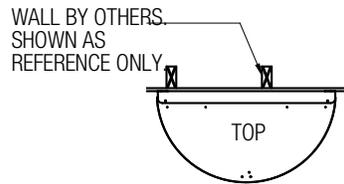
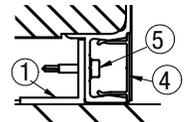


Figure 14



Section E-E

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