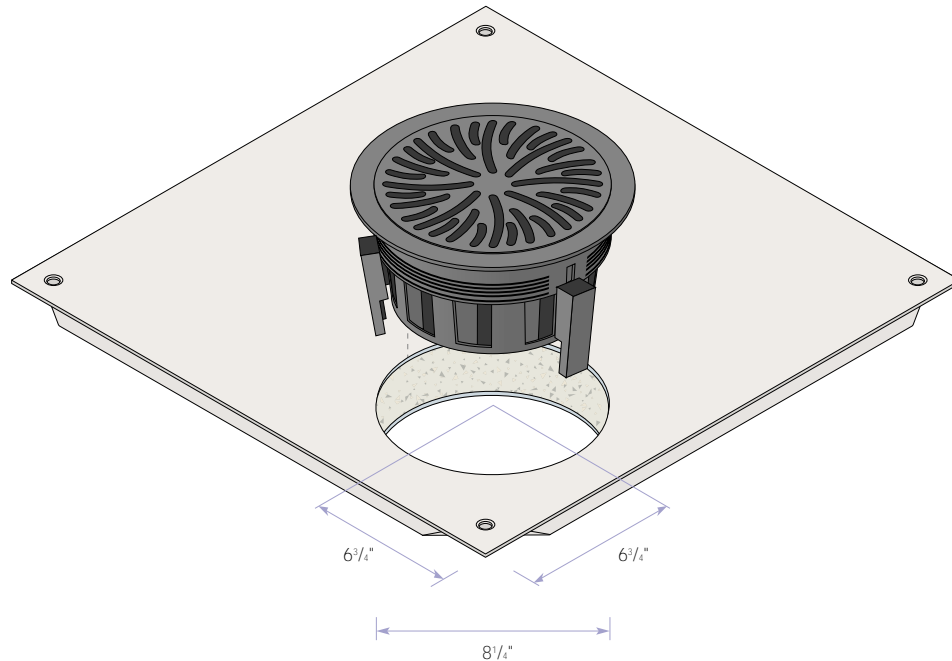


## Swirl Diffuser

## DIFFUSERS



## DIFFUSER SPECIFICATIONS

**General Information**

- Low pressure drop core /damper assembly design
- Core design produces low velocity helical discharge air pattern
- Assembly achieves high induction rates of room air which optimizes circulation

**Specifications**

- Assembly to be high impact polycarbonate construction, shall comply with UL Standard 94-5V for flammability and shall be capable of withstanding without failure a static load of 800 lbs
- Trim ring shall incorporate three mounting clamps to secure assembly to panel. Clamps shall be adjustable by turning Phillips-head screws inside of trim ring
- Installed basket shall extend 4 1/4" below top surface of panel

- Diffuser core shall have visual open/closed indicator with built-in end stops
- Trim ring and core will be flush and will sit 1/8" above carpet/laminate surface and is rounded to 1/16" at edge
- Flow regulator shall be adjustable without removing diffuser core
- Dirt/dust collection basket shall be removable for cleaning
- *NOTE: Diffusers are not designed to support rolling load traffic. This should be considered when establishing diffuser locations*

**Finish Options**

- Standard finishes shall be Grey core and trim or Black core and trim. Damper and basket shall be black.

5:110

# Swirl Diffuser

## Performance Data

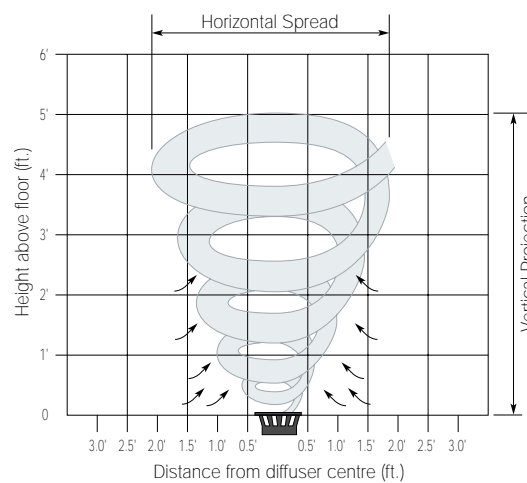
Airflow (CFM)	Plenum Pressure	Vertical Projection @ 150, 100 & 50ft	Horizontal Spread ft. @ 50 fpm	NC -
60	0.035	1.1-1.4-2.9	2.1	-
70	0.048	1.3-1.7-3.5	3.1	-
80	0.063	1.4-1.8-3.7	3.4	-
90	0.079	1.6-2.1-4.4	3.7	-
100	0.098	2.0-2.5-5.0	4.0	15
110	0.119	2.0-2.6-5.4	4.3	18
120	0.141	2.1-2.7-5.6	4.5	20

## Correction Factors for other supply air temperature differentials

$\Delta T$ (F)	Projection ft.	Spread ft.
-6	x 1.33	x 0.87
-8	x 1.11	x 0.94
-10	x 1.00	x 1.00
-12	x 0.96	x 1.06
-14	x 0.92	x 1.11
-16	x 0.91	x 1.16

## Performance Notes:

1. Projection and Spread data were determined in a room with an 11' ceiling height and 10°F  $\Delta T$ , between supply air and averaged occupied room temperature.
2. Vertical projection (throw) is the maximum height above the floor where terminal velocities of 150, 100 and 50 fpm were observed.
3. Noise Criteria (values) based on 10 dB room absorption, re  $10^{-12}$  watts. Dash (-) in space denotes an NC value of less than 15.
4. Tests conducted with dirt basket/damper installed. Damper fully open.  $A_k = 0.104$ .
5. Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.



5.111