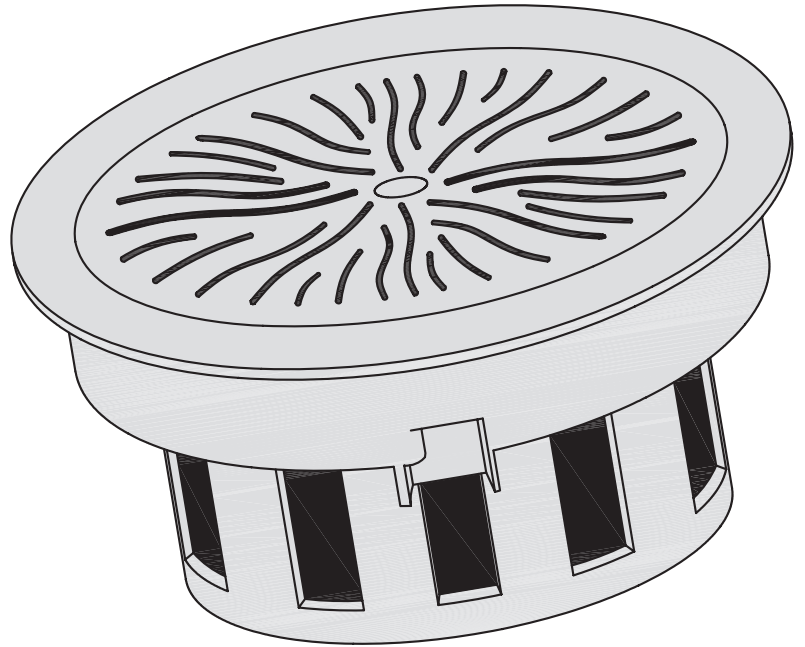


AirFuse Swirl Diffuser

Access Floor Swirl Diffuser designed for use in Underfloor Air Distribution Applications.

The AirFuse diffuser is a “drop-in” type diffuser which mounts easily into an access floor panel from the top. The diffuser delivers conditioned air from the pressurized plenum into the work space and can be manually controlled for volume & direction.

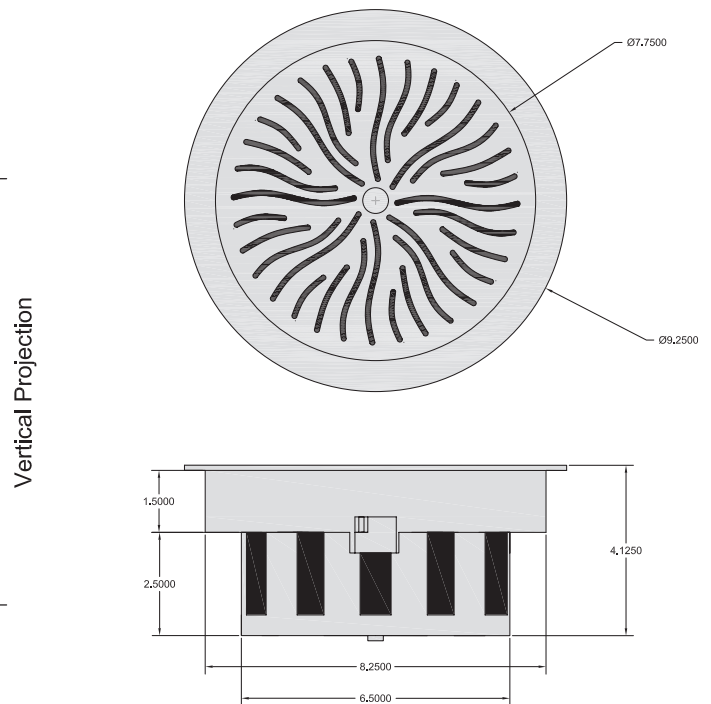
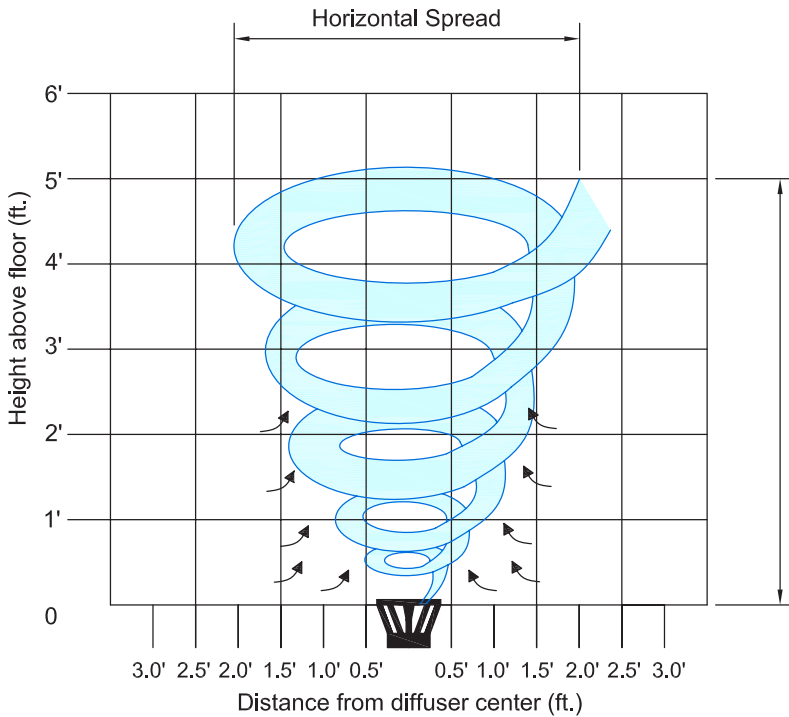
The diffuser is constructed of high impact engineered resin and is available in Black or Gray. Optional colors are available: minimum quantity may be required.



- User friendly & easily controllable for individual comfort level
- Open/close indicator on diffuser cover
- Air volume control mechanism located on top of diffuser for easy access
- Relocate in minutes by accessing clamping toggles easily accessed under diffuser cover
- Dust collection basket is removable from the top of the diffuser and catches debris and dirt to keep plenum space clean
- Diffuser is constructed of high impact resin for strength & durability

AirFuse Swirl Diffuser

Technical Specifications



- Product is designed to produce a low velocity helical air discharge when used in pressurized plenums for UFAD
- Designed air pattern produces high induction rates of environmental air which produces optimal circulation
- Assembly is constructed of high impact engineered resins:
Core: polycarbonate construction, UL-V0 flame rated
Housing ring: polycarbonate construction, UL-V0 flame rated
Diffuser basket: ABS UL-V0 HB flame rated
- Housing ring mounts to access floor with 3 integrated mounting clamp assemblies located inside the housing ring which are adjustable with phillips-head driver
- Clamps are multi-fit design and adjust to different thicknesses access floor panels up to 1.5" deep
- Diffuser basket extends approximately 4.125" below the top of the access floor panel and is adjustable with open/closed indicator located on the diffuser core
- Collection basket can be removed from the housing without removing trim ring so diffuser basket can be cleaned & replaced
- Diffuser tested for 800 lb. ultimate load (static load)
- Textured finish: black or gray core, volume basket: black
- Custom colors available, minimum quantity requirements

Swirl Diffuser - Airflow Testing

EUT Information: Swirl Diffuser

Date: 6/14/2010

Test	Duct CFM	Plenum Pressure (in. H ₂ O)	Vertical Projection - Throw (ft) @ 150, 100, & 50 lfm	Horizontal Spread (ft) @ 50 LFM Min. Flow Rate
1	60	0.05	1.2 / 1.4 / 2.9	2.2
2	70	0.07	1.3 / 2.0 / 3.5	3.1
3	80	0.09	1.5 / 2.0 / 3.7	3.4
4	90	0.10	1.6 / 2.1 / 4.4	3.7
5	100	0.14	2.0 / 2.5 / 5.0	4.0
6	110	0.15	2.0 / 2.6 / 5.4	4.3
7	120	0.18	2.1 / 2.6 / 5.6	4.5

Testing Conditions:

Temperature (°C)	24.2
Temperature (°C)	23.4
Temperature (°C)	24.0
Barometric Pressure (Pa)	100200
Humidity (%)	55%
Calculated Nozzle Diameter (in.)	2
Nozzle(s) Used (in.)	1 x 2"

Performance Notes:

- Throw & Spread were tested in a room with a ceiling height of 11', with isothermal air condition (24°C)
- spread is the maximum distance (ft), measured parallel to the plane of the outlet between the extremes of the terminal velocity envelope (50, 100, and 150 lfm).
- Throw is the distance (ft) from the center of the outlet to a point in the mixed airstream where the highest sustained velocity of the mixed airstream has been reduced to a specific level (50 lfm).
- Test Conducted with damper fully opened
- Data derived in accordance to ANSI/ASHRAE Standard 70-1991