

UNDERFLOOR AIR DISTRIBUTION

AIR DIFFUSER

Circular swirl diffuser for raised access floors



203 mm

NOMINAL DIAMETER

Swirl

AIR DISCHARGE

Black

STANDARD FINISH

Designed for pressurized floor plenums and flexible space planning.

DESIGNED AROUND THE FLOOR

Simple. Adjustable. Accessible.

The swirl face encourages mixing with room air. A removable collection basket and top-adjusted mounting clamps support practical installation and maintenance.

01 Swirl diffuser plate

Low-profile face sits flush with the trim ring flange.

02 Airflow adjustment

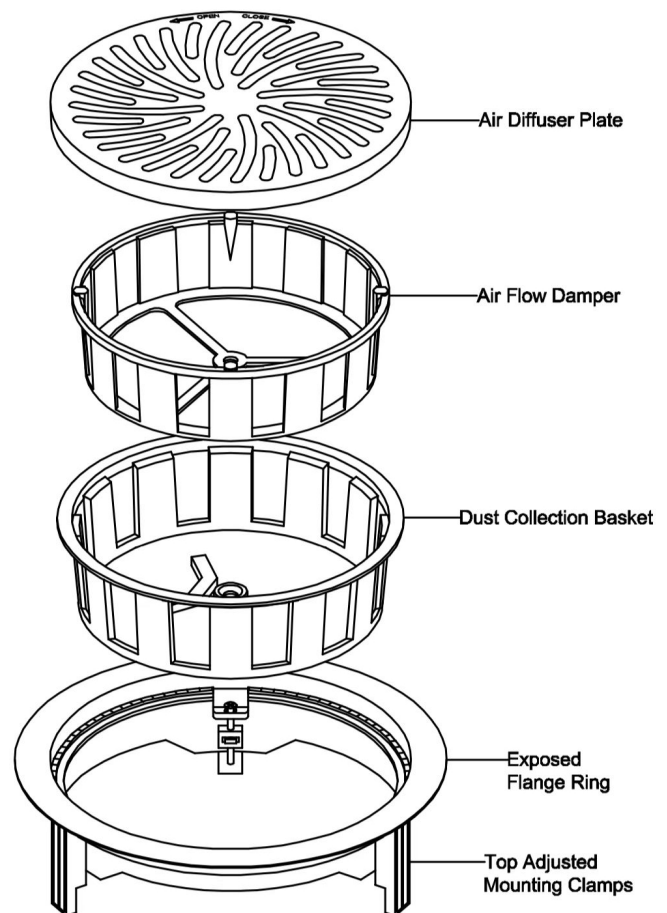
Optional regulator damper with open/closed indication, built-in end stops and adjustable minimum volume stop.

03 Removable dust basket

Collects debris falling through the diffuser face and removes for cleaning.

04 Secure mounting

Adjustable clamps allow installation from above. The trim ring secures carpet edges.



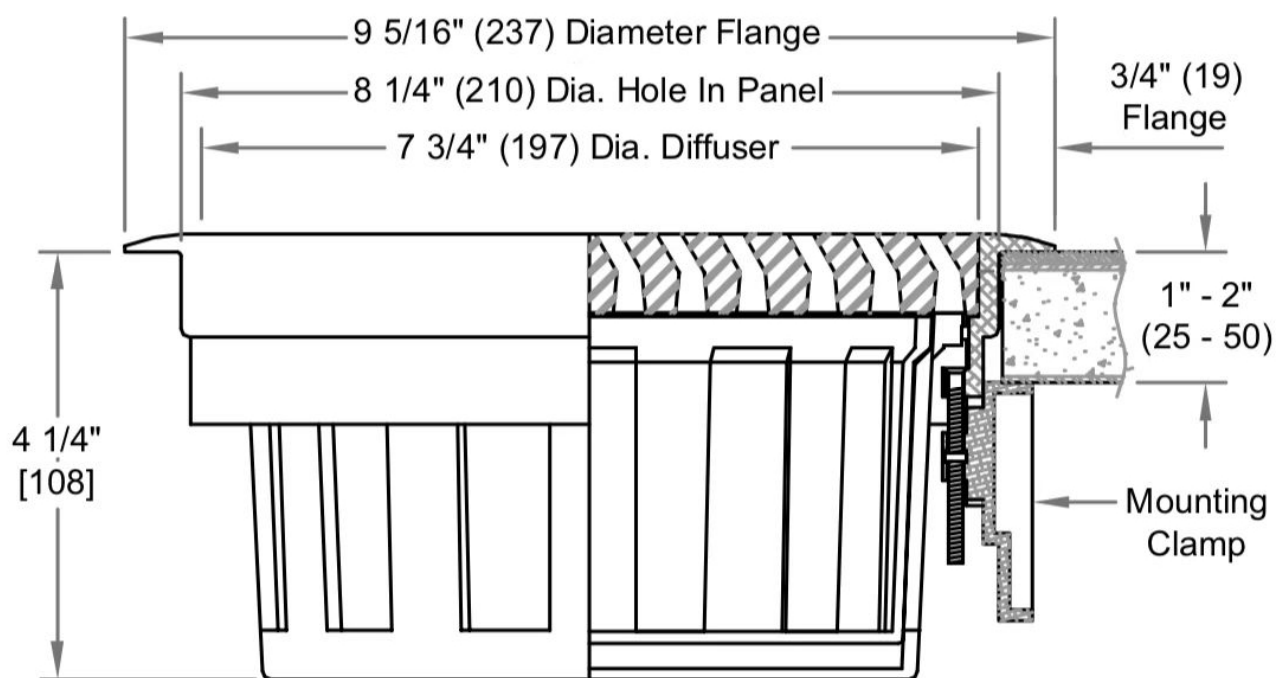
Built for changing layouts

The diffuser can be relocated with the access floor panel as room layouts change. High-impact polycarbonate/ABS construction and standard black components provide a consistent finish. An optional underfloor mounting ring is available.

DIMENSIONS & INTEGRATION

A precise fit.

Circular diffuser assembly for installation in a raised access floor panel.



Dimensional reference

Nominal size	203 mm / 8 in
Overall flange diameter	237 mm / 9 5/16 in
Panel cut-out diameter	210 mm / 8 1/4 in
Diffuser body diameter	197 mm / 7 3/4 in
Overall depth	108 mm / 4 1/4 in
Flange width	19 mm / 3/4 in
Panel thickness shown	25-50 mm / 1-2 in

Dimensions follow the supplied drawing. Confirm the panel cut-out and assembly fit before installation.

AIRFLOW REFERENCE

Performance at a glance.

Supply-air data with the dust basket and damper installed, damper fully open.

Airflow cfm	Pressure in. w.g.	Vertical projection (ft)			Horizontal spread (ft)			NC
		150 fpm	100 fpm	50 fpm	150 fpm	100 fpm	50 fpm	
30	0.012	0.1	0.5	1.2	1.0	1.0	1.5	-
40	0.020	0.4	1.0	2.0	1.0	1.0	2.0	-
50	0.029	0.8	1.8	2.8	1.5	1.8	2.7	-
60	0.040	1.2	2.6	3.5	1.7	2.9	4.1	-
70	0.050	1.6	3.4	4.2	1.9	4.0	5.5	-
80	0.063	2.2	4.1	4.8	2.1	4.1	5.8	-
90	0.077	3.1	4.6	5.3	2.5	3.9	5.7	-
100	0.093	3.9	5.1	5.8	2.9	3.8	5.5	15
110	0.108	4.6	5.5	6.2	3.1	3.7	5.4	18
120	0.125	5.2	5.8	6.6	3.3	3.6	5.3	20

Reading the data

- Vertical projection is the maximum height above the floor at the stated terminal velocity. Horizontal spread is the total width of that velocity contour.
- Reference room: 11 ft ceiling; a 10 degrees F difference between supply air and average occupied-room temperature.
- NC values assume 10 dB room absorption, referenced to 10⁻¹² watts. A dash indicates NC below 15. Effective area Ak = 0.104 (as stated in the source).
- For return-air applications, multiply plenum pressure by 2.65 to obtain static pressure drop.
- The source identifies ANSI/ASHRAE 70-1991 as the test method. Values are supplied reference data; confirm project selection and supporting test documentation.

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