

PHC

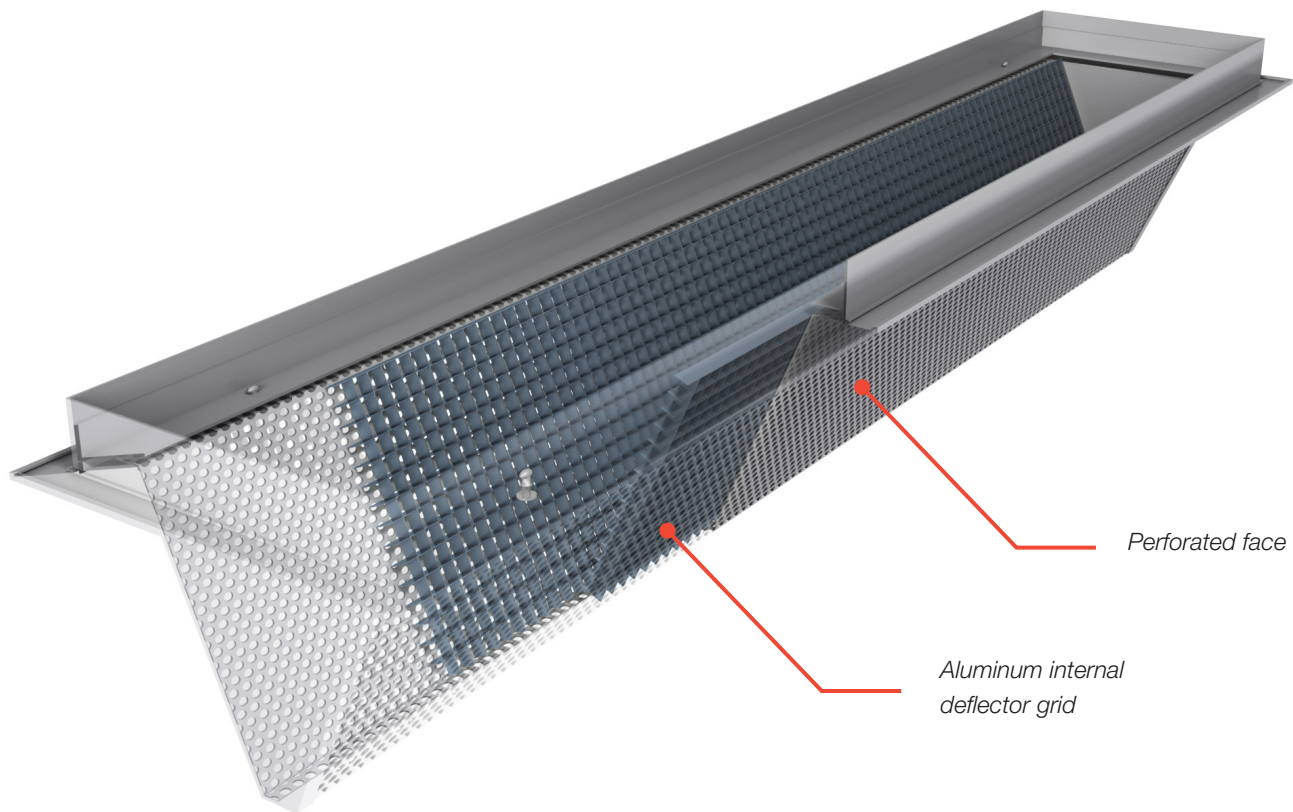
PERFORATED HIGH CAPACITY DIFFUSER



PHC

Perforated High Capacity Diffuser

Designed to provide an even 2-way horizontal airflow along the length of your workspace, the prism-shaped Perforated High Capacity Diffuser (PHC) is ideal for cleanroom and lab applications where a high capacity flow is required.



CUSTOMIZABLE CONSTRUCTION

- + The PHC is available in steel, stainless steel and aluminum.
- + Supplied in modular lengths with joiner mullions for a continuous appearance, the PHC is built to suit applications of any length.
- + Available in two standard duct widths, the PHC has superior capacity to that of a similar size slot diffuser.

EVEN HORIZONTAL AIRFLOW

- + An aluminum internal deflector grid generates an even horizontal air flow through the perforated diffuser face.

CLEANING AND MAINTENANCE

- + PHC units satisfy all ASHRAE 170 requirements for diffuser cleaning and maintenance
- + Powder coat paint finish is formulated for routine exposure to hospital grade cleaning solutions and disinfectants.
- + Stainless steel 1/4 turn fasteners and retainer cables provide convenient access to the plenum for cleaning.

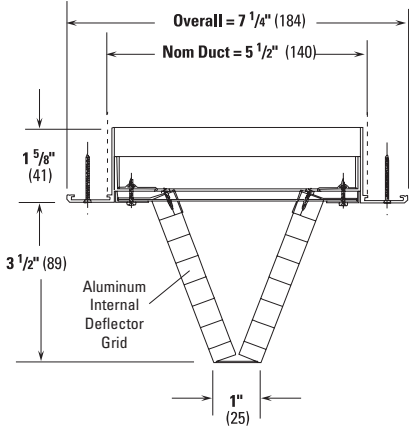
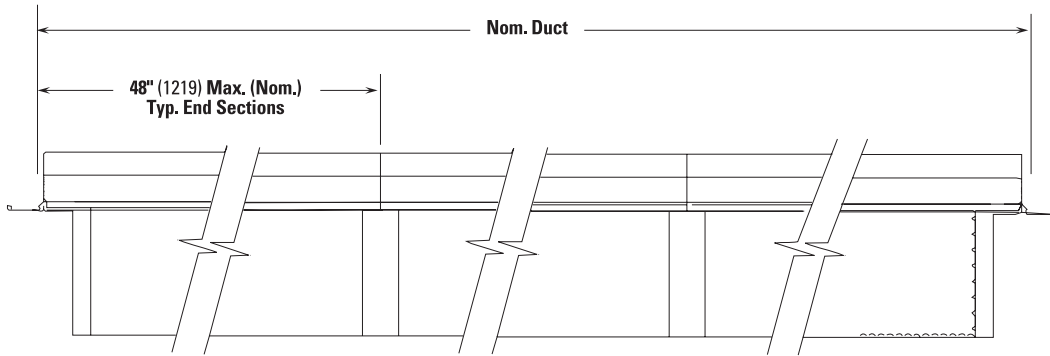
TYPICAL APPLICATIONS

The PCH is ideal for cleanroom and lab applications where a high-capacity, low-noise, 2-way airflow is required along the entire length of the workspace.

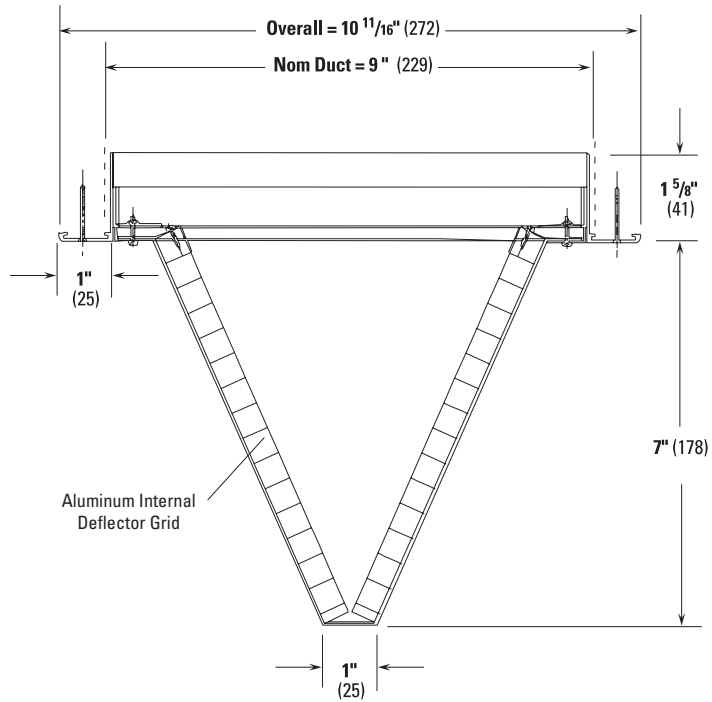
CONSTRUCTION OPTIONS

- + Material
 - Steel (PHC)
 - Stainless Steel (PHCSS)
 - Aluminum (APHC)

DIMENSIONAL DATA



5 1/2 in. Width



9 in. Width

PERFORMANCE DATA

Unit Size (in.)	Air Flow (cfm)	Static Pressure (in. w.g.)	Sound (NC)	Throw (ft.) 150-100-50 fpm
5.5	100	0.02	19	5-7-10
	150	0.04	30	8-12-17
	200	0.07	38	13-17-22
	250	0.12	44	18-22-29
	300	0.16	49	24-28-34
	350	0.22	53	30-35-41
	400	0.29	57	36-42-47
9	100	0.01	-	4-4-7
	150	0.01	24	4-6-9
	200	0.01	32	7-10-13
	250	0.01	38	9-13-17
	300	0.02	43	12-16-21
	350	0.03	47	16-19-24
	400	0.04	51	20-23-29

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Throw data based on a terminal velocity of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
3. Throw data is based on supply air and room air being at isothermal conditions.
4. Throw data based on a 4 ft active length of diffuser.
5. NC = Noise Criteria. NC values are based on room absorption of 10dB, re 10⁻¹² watts and a 4 ft active length. For other lengths see the corrections below.

Length, ft	1	2	3	4	5	6	7	8	9	10
Correction	-2	-2	-1	0	1	2	2	3	4	4

6. Blanks "-" indicate an NC level below 15.



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