



AIRCONCEPTS

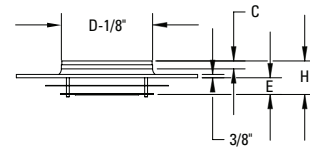
AIR DISTRIBUTION PRODUCTS



PPD/PPDV-LI SERIES

PPD/PPDV-LI

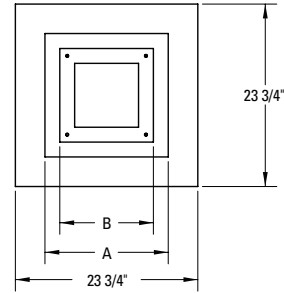
PPD-LI



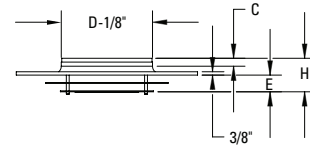
Pyramid Plaque Diffuser Lay-In

PPD-LI Dimensions in Inches

MODEL	A	B	C	D	E	H
PPD-06-LI	12-7/8	9	1-3/16	6	2	4-1/4
PPD-08-LI	12-7/8	9	1-3/16	8	2	4-1/4
PPD-10-LI	16-1/16	12-3/16	1	10	2	4-1/4
PPD-12-LI	16-1/16	12-3/16	1	12	2	4-1/4
PPD-14-LI	19-1/4	15-3/8	1-1/4	14	2	5-1/4
PPD-16-LI	19-1/4	15-3/8	1-1/4	16	2	5-1/4



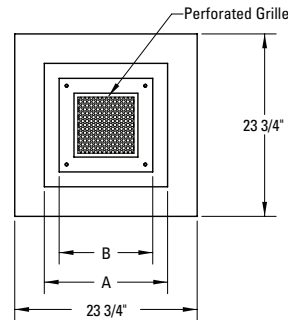
PPDV-LI



Pyramid Plaque Diffuser Lay-In — Variable Pattern

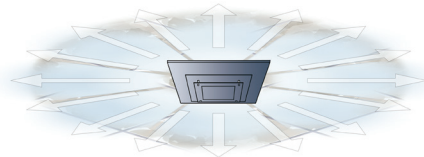
PPDV-LI Dimensions in Inches

MODEL	A	B	C	D	E	H
PPDV-06-LI	12-7/8	9	1-3/16	6	2	4-1/4
PPDV-08-LI	12-7/8	9	1-3/16	8	2	4-1/4
PPDV-10-LI	16-1/16	12-3/16	1	10	2	4-1/4
PPDV-12-LI	16-1/16	12-3/16	1	12	2	4-1/4
PPDV-14-LI	19-1/4	15-3/8	1-1/4	14	2	5-1/4
PPDV-16-LI	19-1/4	15-3/8	1-1/4	16	2	5-1/4

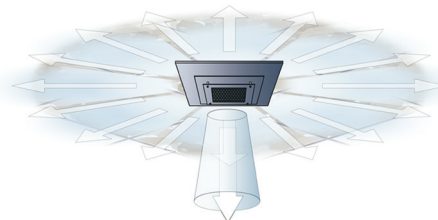


Air Patterns and Performance

Radial Air Pattern



Combination Air Pattern



PPD-LI/PPDV-LI with blank-off installed have a 360° radial horizontal diffusion pattern. PPD-LI radial air pattern performance data should be used for both diffusers.

PPD-LI/PPDV-LI with blank-off removed has a combination air pattern that is a radial horizontal diffusion pattern with a vertical projection component. Approximately 35% to 50% of the airflow is projected in a vertical column through the perforated center of the plaque. PPDV-LI combination air pattern performance data should be used for this unit.

High Velocity/High Aspiration Air Outlet

Distinctive Pyramid Design
Horizontal Air Pattern
Installs Easily in T-Bar Ceiling Grid
PPDV has a Removable Blank-Off
which adds a Vertical Air Pattern
Component when removed

Construction

Heavy Gauge Aluminum
Construction

Finishes

Standard: #52 White powder coat
Custom Colors Available

MODEL	Duct Velocity Velocity Pressure	400 0.01	600 0.022	800 0.04	1000 0.062	1200 0.089	1400 0.122
PPD-06-LI	CFM	78	117	157	196	235	274
	Total Pressure	0.012	0.027	0.048	0.074	0.107	0.147
	NC	<20	<20	<20	20	26	31
	Radius of Diffusion	2-3-5	3-4-8	3-5-9	4-6-10	5-8-11	6-8-12
PPD-08-LI	CFM	140	210	280	350	420	490
	Total Pressure	0.013	0.029	0.052	0.079	0.115	0.157
	NC	<20	<20	<20	25	30	35
	Radius of Diffusion	2-3-6	3-5-10	4-7-11	6-8-13	7-10-14	8-11-15
PPD-10-LI	CFM	218	327	436	545	654	763
	Total Pressure	0.021	0.046	0.083	0.13	0.187	0.257
	NC	<20	<20	22	29	35	40
	Radius of Diffusion	3-5-9	4-6-13	6-9-14	7-10-16	8-11-17	10-13-19
PPD-12-LI	CFM	314	471	628	785	942	1099
	Total Pressure	0.03	0.066	0.116	0.182	0.259	0.357
	NC	<20	<20	26	33	39	43
	Radius of Diffusion	4-6-12	5-7-15	7-11-17	8-12-18	10-14-21	12-16-23
PPD-14-LI	CFM	428	641	855	1069	1283	1497
	Total Pressure	0.018	0.043	0.073	0.118	0.173	0.237
	NC	<20	<20	20	26	32	36
	Radius of Diffusion	5-6-13	6-8-16	8-12-20	10-14-23	12-17-26	13-19-29
PPD-16-LI	CFM	558	838	1117	1396	1675	1954
	Total Pressure	0.028	0.064	0.088	0.182	0.259	0.352
	NC	<20	<20	26	33	38	43
	Radius of Diffusion	5-7-14	7-10-18	9-14-22	11-17-25	14-20-28	15-21-31
PPDV-06-LI	CFM	78	117	157	196	235	274
	Total Pressure	0.011	0.025	0.046	0.071	0.102	0.139
	NC	<20	<20	<20	<20	<20	24
	Radius of Diffusion	1-1-2	1-2-3	2-3-5	2-3-6	3-5-9	4-6-10
PPDV-08-LI	CFM	140	210	280	350	420	490
	Total Pressure	0.011	0.026	0.047	0.075	0.107	0.147
	NC	<20	<20	<20	<20	22	28
	Radius of Diffusion	1-2-4	2-3-6	2-4-7	3-5-9	4-7-11	5-8-12
PPDV-10-LI	CFM	218	327	436	545	654	763
	Total Pressure	0.016	0.035	0.062	0.096	0.139	0.192
	NC	<20	<20	<20	<20	25	31
	Radius of Diffusion	2-3-7	3-5-9	4-6-13	5-7-14	6-9-15	7-10-16
PPDV-12-LI	CFM	314	471	628	785	942	1099
	Total Pressure	0.02	0.044	0.078	0.122	0.175	0.242
	NC	<20	<20	<20	22	28	34
	Radius of Diffusion	3-4-8	4-6-12	5-7-15	7-11-17	8-12-18	9-13-20
PPDV-14-LI	CFM	428	641	855	1069	1283	1497
	Total Pressure	0.021	0.033	0.059	0.093	0.133	0.186
	NC	<20	<20	<20	23	30	35
	Radius of Diffusion	3-4-9	5-6-12	6-7-14	7-11-17	8-12-19	9-13-21
PPDV-16-LI	CFM	558	838	1117	1396	1675	1954
	Total Pressure	0.019	0.045	0.082	0.122	0.175	0.242
	NC	<20	<20	22	29	34	39
	Radius of Diffusion	4-6-11	5-7-14	7-10-18	8-14-21	9-14-22	11-17-25
	Vertical Projection	4-6	5-9	6-12	7-14	9-17	10-20

Performance data based on ASHRAE 70-06

RADIUS OF DIFFUSION: Horizontal distance (THROW) in feet from the Nozzle discharge at which the maximum velocity has been reduced to specified terminal velocity (Vt)

TERMINAL VELOCITY: Maximum velocity (Vt) in feet per minute at the specified distance from the outlet face (THROW) 150 fpm, 100 fpm and 50 fpm respectively.

VERTICAL PROJECTION: Vertical distance (THROW) in feet - minimum value is 20-degree heating to 0 fpm terminal velocity and maximum value is 20-degree cooling to 100 fpm terminal velocity.

NOISE CRITERIA: Noise criteria (NC) curve which is not exceeded with a Room Attenuation of 10db and based on Sound Power Level Re: 10-12 watts

TOTAL PRESSURE: Inches of water gauge required

AIRFLOW CFM: Standard air density and isothermal conditions

