

PDF/PDN/PDC/PDMC/PDSP

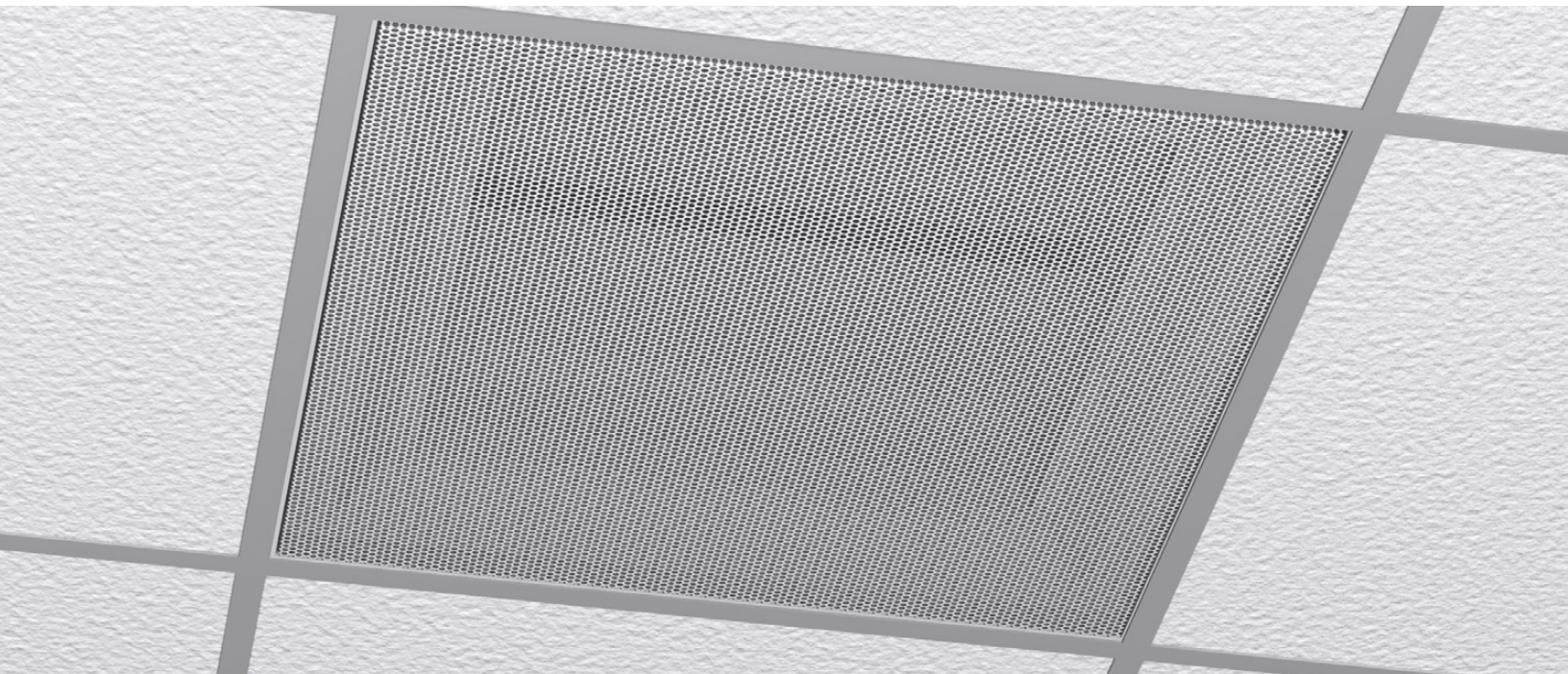
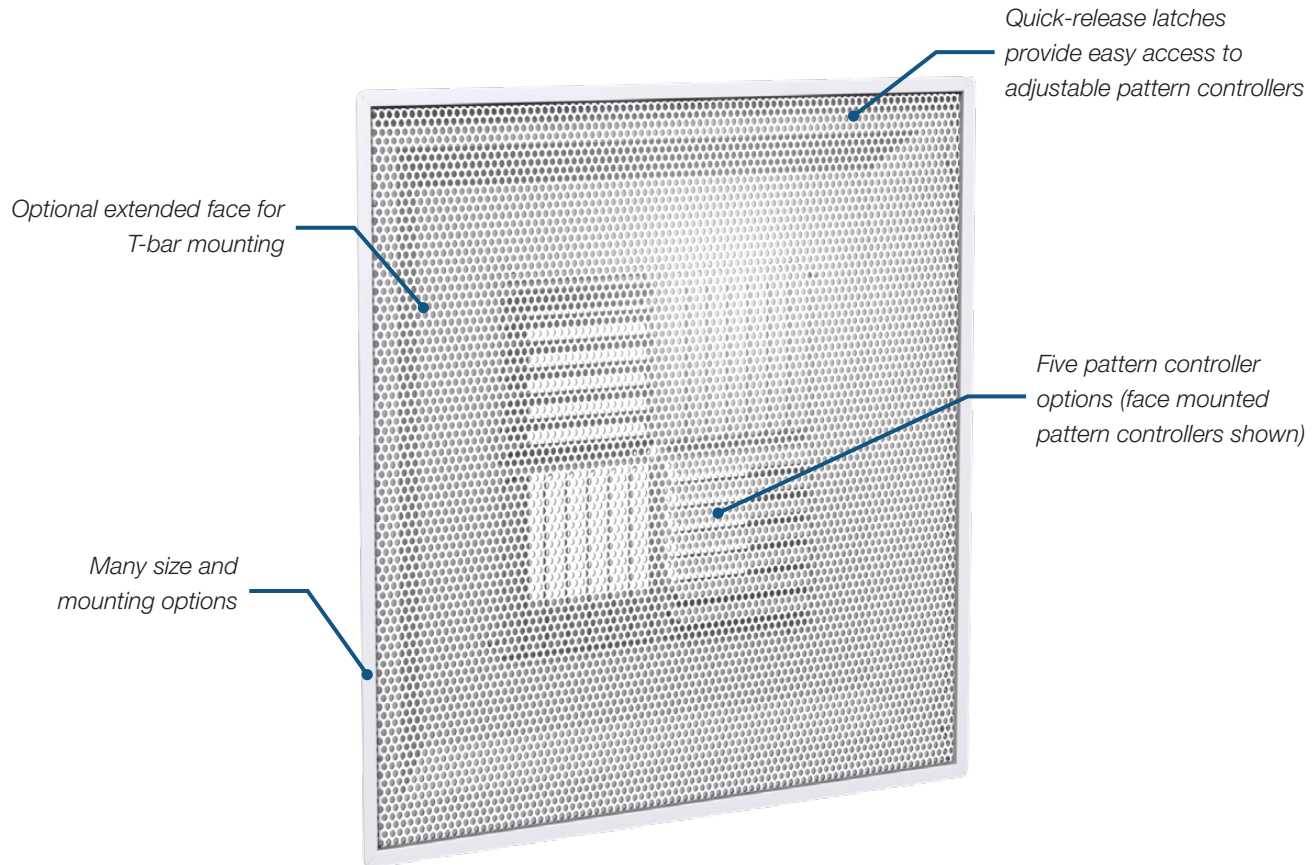
PERFORATED FACE SUPPLY DIFFUSER



PDF/PDN/PDC/PDMC/PDSP

Perforated Face Supply Diffuser

The perforated supply diffuser is available in a wide variety of sizes with a full selection of frame and mounting styles. With five different options for air pattern control, the perforated face diffuser is extremely versatile to suit a variety of performance requirements.



EASILY REMOVABLE PERFORATED FACE

- + This diffuser features quick-release latches and hinges, to allow for easy access behind the perforated face where pattern adjustments can be made.

FIRE RATED CONSTRUCTION

- + With the fire rated option, the perforated face supply diffuser is a Fire Rated Assembly listed in the Underwriters Laboratories (UL) Fire Resistance Directory.
- + Fire rated models meet UL time vs. temperature test criteria and NFPA 90A requirements.
- + Fire rated construction incorporates a thermal blanket and fire damper.
- + The butterfly-type fire damper is available with either a 165°F or 212°F fusible link.
- + The fire rated option is only available for use in exposed grid suspended ceilings (T-Bar Lay-in) and must be installed in accordance with the installation instructions.

EXTENDED FACE

- + An extended face option is available to accommodate tegular style ceilings by extending the diffuser face 3/8 in. below the t-bar plane so that the diffuser face is flush with tegular ceiling panels.



T-bar installation



Extended Face T-bar installation

TYPICAL APPLICATIONS

The perforated face diffuser, is available for supply applications that require a clean, perforated look.

CONSTRUCTION

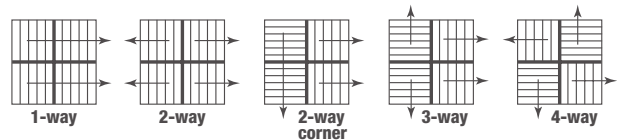
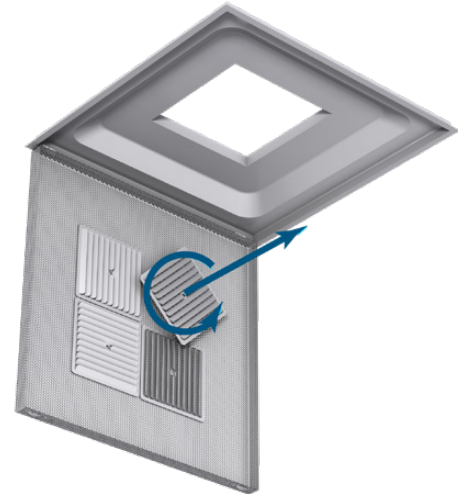
- + Material
 - Steel (PDx)
 - Aluminum (APDx)
- + Pattern Controllers
 - Face mounted (PDF)
 - Neck mounted (PDN)
 - Curved blade (PDC)
 - Modular core (PDMC)
 - Star pattern (PDSP)
- + Options
 - Extended face (PDxE)
 - Fire rated construction (PDx-FR)
 - Complete range of accessory dampers, equalizing grid, backpan insulation, etc.
 - Beaded extended neck for easy flex duct connection

ADJUSTABLE PATTERN CONTROLLERS

A variety of different adjustable pattern controllers are available to best suit individual applications.

Face Mounted Pattern Deflectors

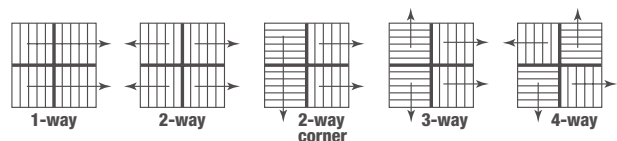
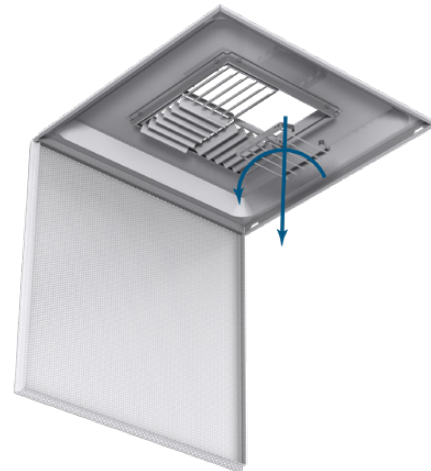
The face mounted pattern controllers provide an adjustable horizontal air pattern with a strong Coanda effect against the ceiling. Louvered air pattern deflectors are spring clip mounted on the back of the diffuser face. Simply pull down and rotate pattern deflectors for easy field adjustment of the discharge pattern (4, 3, 2 or 1-way).



Deflector settings

Modular Core Pattern Deflectors

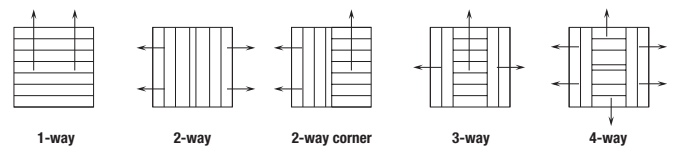
The modular core directional diffusers offer field adjustment of the air pattern. To adjust the pattern deflectors, simply push to compress and release the spring clip, then reinstall the pattern deflector in the desired orientation. The core design provides an excellent horizontal pattern, suitable for VAV applications.



Deflector settings

Curved Blade Pattern Deflectors

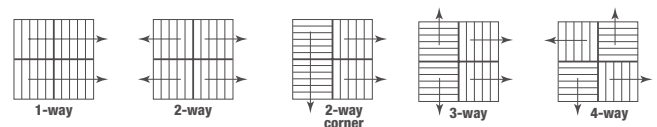
Individually adjustable curved blade pattern controllers are available in fixed 1, 2, 2-way corner, 3 and 4-way air patterns. The adjustable curved blades provide total flexibility in pattern adjustment from horizontal to vertical, as well as low pressure drop and noise levels. To adjust between horizontal and vertical air patterns, simply adjust the individual curved blades to a horizontal position for horizontal throw and vertical position for vertical throw.



Deflector settings

Neck Mounted Pattern Deflectors

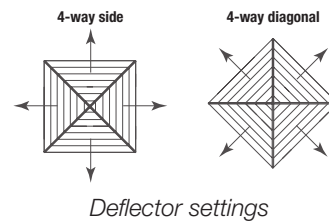
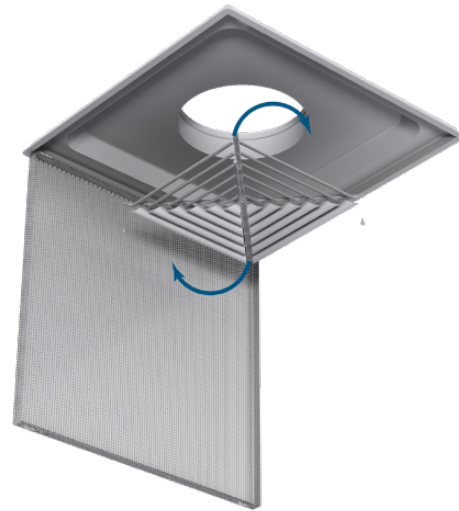
Neck mounted pattern controllers provide a horizontal air pattern with a strong Coanda effect against the ceiling. To adjust the pattern, unscrew individual pattern deflectors and replace them in the desired orientation to achieve 4, 3, 2 or 1-way airflow.



Deflector settings

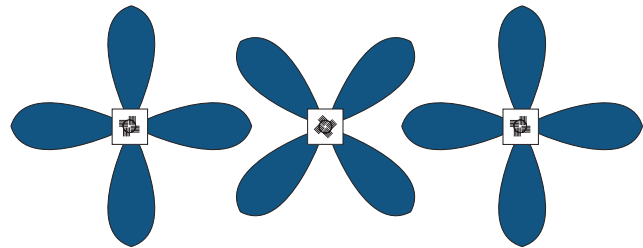
Star Pattern Deflectors

The star pattern pattern deflectors produce a tight horizontal air pattern that is field adjustable between a standard 4-way square and a 4-way side star discharge pattern. Curved blade deflectors mounted at the diffuser neck maintain a consistent horizontal pattern, even at low flow rates, making it an ideal choice for VAV applications.



Condensed Diffuser Layout

With both neck mounted and star pattern deflector options, diffusers can be placed closer together by alternating 4-way side and 4-way diagonal airflow patterns. In this arrangement diffuser discharges are "inter-woven" such that outlets can be tightly spaced while still minimizing the risk of draft due to colliding air patterns.



PERFORMANCE DATA

PDF/PDFE - 12 in. x 12 in.

Inlet Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000	1200	1400	
	Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.050	.062	.090	.122	
6 Ø	Total Pressure (in. w.g.)	.012	.021	.033	.047	.064	.084	.106	.131	.189	.257	
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274	
	Sound (NC)	-	-	-	19	24	28	32	35	41	46	
	Throw (ft.)	4 Way	0-1-4	1-2-6	1-3-7	2-4-8	3-5-9	4-6-10	4-7-10	5-7-11	6-8-12	7-9-13
		3 Way	1-1-5	1-2-7	2-4-9	2-5-10	3-6-11	4-7-11	5-8-12	6-9-13	7-10-14	8-11-15
2 Way		1-2-7	1-3-10	2-5-12	3-7-13	4-8-14	6-10-15	7-11-16	8-12-17	10-13-19	11-14-20	
1 Way		1-2-9	2-4-12	3-6-15	4-9-17	5-10-18	7-12-19	9-13-20	10-15-21	12-17-23	14-18-25	
6 x 6	Total Pressure (in. w.g.)	.013	.024	.037	.054	.073	.096	.121	.150	.215	.293	
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350	
	Sound (NC)	-	-	17	22	27	31	35	38	44	48	
	Throw (ft.)	4 Way	1-1-5	1-2-7	2-4-9	2-5-9	3-6-10	4-7-11	5-8-11	6-9-12	7-9-13	8-10-14
		3 Way	1-2-6	1-3-8	2-5-10	3-6-11	4-7-12	5-8-13	6-9-14	7-10-14	8-11-16	10-12-17
2 Way		1-2-8	2-4-11	3-6-14	4-8-15	5-10-16	7-11-17	8-13-18	9-14-19	11-15-21	13-16-23	
1 Way		1-3-11	2-5-14	3-8-17	5-11-19	7-12-20	9-14-22	11-16-23	12-17-24	14-19-26	16-20-29	

PDF/PDFE - 12 in. x 24 in.

Inlet Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000	1200	1400	
	Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.050	.062	.090	.122	
6 Ø	Total Pressure (in. w.g.)	.012	.021	.033	.047	.064	.084	.106	.131	.189	.257	
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274	
	Sound (NC)	-	-	-	19	24	28	32	35	41	46	
	Throw (ft.)	4 Way	0-1-4	1-2-6	1-3-7	2-4-8	3-5-9	4-6-10	4-7-10	5-7-11	6-8-12	7-9-13
		3 Way	1-1-5	1-2-7	2-4-9	2-5-10	3-6-11	4-7-11	5-8-12	6-9-13	7-10-14	8-11-15
2 Way		1-2-7	1-3-10	2-5-12	3-7-13	4-8-14	6-10-15	7-11-16	8-12-17	10-13-19	11-14-20	
1 Way		1-2-9	2-4-12	3-6-15	4-9-17	5-10-18	7-12-19	9-13-20	10-15-21	12-17-23	14-18-25	
6 x 6	Total Pressure (in. w.g.)	.013	.024	.037	.054	.073	.096	.121	.150	.215	.293	
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350	
	Sound (NC)	-	-	17	22	27	31	35	38	44	48	
	Throw (ft.)	4 Way	1-1-5	1-2-7	2-4-9	2-5-9	3-6-10	4-7-11	5-8-11	6-9-12	7-9-13	8-10-14
		3 Way	1-2-6	1-3-8	2-5-10	3-6-11	4-7-12	5-8-13	6-9-14	7-10-14	8-11-16	10-12-17
2 Way		1-2-8	2-4-11	3-6-14	4-8-15	5-10-16	7-11-17	8-13-18	9-14-19	11-15-21	13-16-23	
1 Way		1-3-11	2-5-14	3-8-17	5-11-19	7-12-20	9-14-22	11-16-23	12-17-24	14-19-26	16-20-29	
6 x 18	Total Pressure (in. w.g.)	.026	.047	.073	.105	.144	.188	.237	.293	.422	.574	
	Flow Rate (cfm)	225	300	375	450	525	600	675	750	900	1050	
	Sound (NC)	-	22	29	35	40	44	47	51	56	61	
	Throw (ft.)	4 Way	2-5-11	4-8-13	6-9-15	8-11-16	9-12-17	10-13-19	11-14-20	12-15-21	13-16-23	14-17-25
		3 Way	2-6-14	4-9-16	7-11-18	9-14-19	11-15-21	12-16-22	14-17-24	14-18-25	16-19-27	17-21-30
2 Way		3-7-18	6-12-21	9-15-24	12-18-26	14-20-28	16-21-30	18-22-32	19-24-33	21-26-37	23-28-40	
1 Way		4-9-23	7-15-26	11-19-30	15-23-32	18-25-35	20-26-37	23-28-40	24-30-42	26-32-46	29-35-49	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDF-FR, PDFE-FR).

PERFORMANCE DATA

PDF/PDFE - 16 in. x 16 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300	400	500	600	700	800	900	1000	1200	1400
6 Ø	Total Pressure (in. w.g.)	.012	.021	.033	.047	.064	.084	.106	.131	.189	.257
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274
	Sound (NC)	-	-	-	19	24	28	32	35	41	46
	Throw (ft.)	0-1-4	1-2-6	1-3-7	2-4-8	3-5-9	4-6-10	4-7-10	5-7-11	6-8-12	7-9-13
		1-1-5	1-2-7	2-4-9	2-5-10	3-6-11	4-7-11	5-8-12	6-9-13	7-10-14	8-11-15
6 x 6	Total Pressure (in. w.g.)	.013	.024	.037	.054	.073	.096	.121	.150	.215	.293
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350
	Sound (NC)	-	-	17	22	27	31	35	38	44	48
	Throw (ft.)	1-1-5	1-2-7	2-4-9	2-5-9	3-6-10	4-7-11	5-8-11	6-9-12	7-9-13	8-10-14
		1-2-6	1-3-8	2-5-10	3-6-11	4-7-12	5-8-13	6-9-14	7-10-14	8-11-16	10-12-17
8 Ø	Total Pressure (in. w.g.)	.017	.029	.046	.066	.090	.118	.149	.184	.265	.360
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489
	Sound (NC)	-	-	21	26	31	35	39	42	48	52
	Throw (ft.)	1-2-7	2-3-9	2-5-10	3-7-11	5-8-12	6-9-13	7-10-14	7-10-14	9-11-16	10-12-17
		1-2-8	2-4-11	3-7-12	4-8-13	6-9-14	7-11-15	8-11-16	9-12-17	11-13-19	12-14-20
8 x 8	Total Pressure (in. w.g.)	.019	.034	.053	.076	.104	.136	.172	.212	.305	.415
	Flow Rate (cfm)	133	178	222	266	311	355	400	444	533	622
	Sound (NC)	-	16	23	29	34	38	41	45	50	55
	Throw (ft.)	1-3-8	2-5-10	3-6-11	5-8-12	6-9-13	7-10-14	8-11-15	9-11-16	10-12-18	11-13-19
		1-3-9	2-5-12	4-8-14	5-9-15	7-11-16	8-12-17	9-13-18	10-14-19	12-15-21	13-16-23
10 Ø	Total Pressure (in. w.g.)	.022	.039	.061	.088	.119	.156	.197	.243	.350	.477
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763
	Sound (NC)	-	19	26	31	36	40	44	47	53	57
	Throw (ft.)	1-3-10	3-6-11	4-7-13	6-9-14	7-10-15	8-11-16	9-12-17	10-13-18	11-14-20	12-15-21
		2-4-11	3-7-14	5-9-15	7-11-17	8-13-18	10-14-19	11-14-20	12-15-21	14-17-23	15-18-25
	2-5-15	4-9-18	6-12-20	9-14-22	11-17-24	13-18-26	14-19-27	16-20-29	18-22-31	19-24-34	
	3-6-19	5-11-23	8-15-25	11-18-28	14-21-30	16-23-32	18-24-34	20-25-36	23-28-39	24-30-42	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDF-FR, PDFE-FR).

PERFORMANCE DATA

PDF/PDFE - 20 in. x 20 in.

Inlet Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000	1200	1400	
	Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.050	.062	.090	.122	
6 Ø	Total Pressure (in. w.g.)	.012	.021	.033	.047	.064	.084	.106	.131	.189	.257	
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274	
	Sound (NC)	-	-	-	19	24	28	32	35	41	46	
	Throw (ft.)	4 Way	0-1-4	1-2-6	1-3-7	2-4-8	3-5-9	4-6-10	4-7-10	5-7-11	6-8-12	7-9-13
		3 Way	1-1-5	1-2-7	2-4-9	2-5-10	3-6-11	4-7-11	5-8-12	6-9-13	7-10-14	8-11-15
2 Way		1-2-7	1-3-10	2-5-12	3-7-13	4-8-14	6-10-15	7-11-16	8-12-17	10-13-19	11-14-20	
1 Way		1-2-9	2-4-12	3-6-15	4-9-17	5-10-18	7-12-19	9-13-20	10-15-21	12-17-23	14-18-25	
6 x 6	Total Pressure (in. w.g.)	.013	.024	.037	.054	.073	.096	.121	.150	.215	.293	
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350	
	Sound (NC)	-	-	17	22	27	31	35	38	44	48	
	Throw (ft.)	4 Way	1-1-5	1-2-7	2-4-9	2-5-9	3-6-10	4-7-11	5-8-11	6-9-12	7-9-13	8-10-14
		3 Way	1-2-6	1-3-8	2-5-10	3-6-11	4-7-12	5-8-13	6-9-14	7-10-14	8-11-16	10-12-17
2 Way		1-2-8	2-4-11	3-6-14	4-8-15	5-10-16	7-11-17	8-13-18	9-14-19	11-15-21	13-16-23	
1 Way		1-3-11	2-5-14	3-8-17	5-11-19	7-12-20	9-14-22	11-16-23	12-17-24	14-19-26	16-20-29	
8 Ø	Total Pressure (in. w.g.)	.017	.029	.046	.066	.090	.118	.149	.184	.265	.360	
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489	
	Sound (NC)	-	-	21	26	31	35	39	42	48	52	
	Throw (ft.)	4 Way	1-2-7	2-3-9	2-5-10	3-7-11	5-8-12	6-9-13	7-10-14	7-10-14	9-11-16	10-12-17
		3 Way	1-2-8	2-4-11	3-7-12	4-8-13	6-9-14	7-11-15	8-11-16	9-12-17	11-13-19	12-14-20
2 Way		1-3-11	2-6-14	4-9-16	6-11-18	8-12-19	9-14-20	11-15-22	12-16-23	14-18-25	16-19-27	
1 Way		2-4-13	3-7-18	5-11-20	7-13-22	10-15-24	12-18-26	13-19-27	15-20-29	18-22-31	19-24-34	
8 x 8	Total Pressure (in. w.g.)	.019	.034	.053	.076	.104	.136	.172	.212	.305	.415	
	Flow Rate (cfm)	133	178	222	266	311	355	400	444	533	622	
	Sound (NC)	-	16	23	29	34	38	41	45	50	55	
	Throw (ft.)	4 Way	1-3-8	2-5-10	3-6-11	5-8-12	6-9-13	7-10-14	8-11-15	9-11-16	10-12-18	11-13-19
		3 Way	1-3-9	2-5-12	4-8-14	5-9-15	7-11-16	8-12-17	9-13-18	10-14-19	12-15-21	13-16-23
2 Way		2-4-12	3-7-16	5-10-18	7-12-20	10-15-22	11-16-23	12-17-24	14-18-26	16-20-28	18-22-30	
1 Way		2-5-16	4-9-20	6-13-23	9-16-25	12-18-27	14-20-29	16-22-31	17-23-32	20-25-35	22-27-38	
10 Ø	Total Pressure (in. w.g.)	.022	.039	.061	.088	.119	.156	.197	.243	.350	.477	
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763	
	Sound (NC)	-	19	26	31	36	40	44	47	53	57	
	Throw (ft.)	4 Way	1-3-9	3-6-11	4-7-13	6-9-14	7-10-15	8-11-16	9-12-17	10-13-18	11-14-20	12-15-21
		3 Way	2-4-11	3-7-14	5-9-15	7-11-17	8-13-18	10-14-19	11-14-20	12-15-21	14-17-23	15-18-25
2 Way		2-5-14	4-9-18	6-12-20	9-14-22	11-17-24	13-18-26	14-19-27	16-20-29	18-22-31	19-24-34	
1 Way		3-6-18	5-11-23	8-15-25	11-18-28	14-21-30	16-23-32	18-24-34	20-25-36	23-28-39	24-30-42	
10 x 10	Total Pressure (in. w.g.)	.025	.044	.069	.099	.134	.176	.222	.274	.395	.538	
	Flow Rate (cfm)	208	278	347	416	486	555	625	694	833	972	
	Sound (NC)	-	22	28	34	39	43	47	50	55	60	
	Throw (ft.)	4 Way	2-4-11	3-7-13	5-9-14	7-11-16	8-12-17	9-13-18	11-13-19	12-14-20	13-16-22	14-17-24
		3 Way	2-5-13	4-9-15	6-11-17	9-13-19	10-14-20	11-15-22	13-16-23	14-17-24	15-19-26	16-20-29
2 Way		3-7-17	5-11-20	8-14-23	11-17-25	13-19-27	15-20-29	17-22-31	19-23-32	20-25-35	22-27-38	
1 Way		4-8-21	7-14-25	10-18-28	14-21-31	17-24-34	19-25-36	21-27-38	23-28-40	25-31-44	27-34-48	
12 Ø	Total Pressure (in. w.g.)	.027	.048	.075	.108	.147	.192	.242	.299	.431	.587	
	Flow Rate (cfm)	236	314	393	471	550	628	707	785	942	1099	
	Sound (NC)	-	23	30	35	40	44	48	51	57	62	
	Throw (ft.)	4 Way	2-5-12	4-8-14	6-10-15	8-12-17	9-13-18	10-14-19	12-14-20	12-15-21	14-17-23	15-18-25
		3 Way	3-6-14	5-9-16	7-12-18	9-14-20	11-15-21	12-16-23	14-17-24	15-18-26	16-20-28	18-21-30
2 Way		3-8-19	6-12-22	10-16-24	12-19-27	15-20-29	17-22-31	19-23-32	20-24-34	22-27-38	23-29-41	
1 Way		4-10-23	8-16-27	12-19-30	16-23-33	18-25-36	21-27-38	23-29-41	25-30-43	27-33-47	29-36-51	
14 Ø	Total Pressure (in. w.g.)	.032	.057	.089	.128	.174	.227	.288	.355	.512	.697	
	Flow Rate (cfm)	321	428	535	641	748	855	962	1069	1283	1497	
	Sound (NC)	18	27	33	39	44	48	52	55	60	65	
	Throw (ft.)	4 Way	3-7-14	5-10-16	8-12-18	10-14-19	11-15-21	13-16-22	14-17-24	14-18-25	16-19-27	17-21-30
		3 Way	4-8-16	7-12-19	10-14-21	12-16-23	14-18-25	15-19-27	16-20-28	17-21-30	19-23-33	20-25-35
2 Way		5-11-22	9-15-25	13-19-28	15-22-31	18-24-33	21-25-36	22-27-38	23-28-40	25-31-44	27-33-47	
1 Way		6-14-27	11-19-32	16-24-35	19-27-39	23-30-42	26-32-45	27-33-47	29-35-50	32-39-55	34-42-59	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDF-FR, PDFE-FR).

PERFORMANCE DATA

PDF/PDFE - 24 in. x 24 in.

Inlet Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000	1200	1400
	Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.050	.062	.090	.122
6 Ø	Total Pressure (in. w.g.)	.009	.016	.026	.037	.050	.066	.083	.103	.148	.202
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274
	Sound (NC)	-	-	-	16	21	25	29	32	38	43
	Throw (ft.)	4 Way 0-0-2	0-1-3 0-1-3	0-1-4 1-1-5	1-2-6 1-2-7	1-2-7 1-2-9	1-3-8 1-3-10	2-3-9 2-4-11	2-4-10 2-5-13	3-6-12 3-7-14	4-7-13 4-9-15
	2 Way 0-1-2	0-1-4 1-1-5	1-2-7 1-2-8	1-2-10 1-3-12	1-3-12 2-4-15	2-4-13 2-5-17	2-5-15 3-7-19	3-7-17 4-8-21	4-10-19 5-12-23	6-12-20 7-15-25	
1 Way 0-1-3	1-1-5 1-1-5	1-2-8 1-3-12	1-3-12 2-5-15	1-3-12 3-7-18	2-4-15 4-10-20	2-5-17 6-12-22	3-7-19 7-14-23	4-8-21 9-15-24	5-12-23 12-18-26	7-15-25 14-20-29	
6 x 6	Total Pressure (in. w.g.)	.010	.018	.029	.042	.057	.074	.093	.115	.166	.226
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350
	Sound (NC)	-	-	-	19	24	28	32	35	41	46
	Throw (ft.)	4 Way 0-1-4	1-2-6 1-2-7	1-3-8 1-3-9	2-4-9 2-4-11	2-5-10 3-6-12	3-6-11 3-7-13	4-7-11 4-8-14	5-8-12 5-9-14	6-9-13 7-11-16	7-10-14 9-12-17
	3 Way 0-1-4	1-2-7 1-3-10	1-3-12 2-4-12	2-5-15 3-7-18	3-6-15 4-8-16	4-8-16 5-10-17	5-10-17 6-11-18	6-11-18 7-12-19	7-12-19 10-15-21	10-15-21 11-16-23	11-16-23 13-19-27
2 Way 1-1-6	1-2-7 1-3-12	1-3-12 2-5-15	2-5-15 3-7-18	3-7-18 4-10-20	4-10-20 6-12-22	6-12-22 7-14-23	7-14-23 9-15-24	9-15-24 12-18-26	12-18-26 14-20-29	14-20-29 16-24-34	
1 Way 1-2-7	1-3-12 2-5-15	1-3-12 2-5-15	2-5-15 3-7-18	3-7-18 4-10-20	4-10-20 6-12-22	6-12-22 7-14-23	7-14-23 9-15-24	9-15-24 12-18-26	12-18-26 14-20-29	14-20-29 16-24-34	
8 Ø	Total Pressure (in. w.g.)	.013	.023	.036	.052	.070	.092	.116	.143	.206	.281
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489
	Sound (NC)	-	-	18	23	28	32	36	39	45	49
	Throw (ft.)	4 Way 0-1-4	1-2-7 1-2-8	1-3-9 1-3-10	2-4-10 2-5-12	2-5-12 3-6-14	3-7-13 3-8-15	4-8-14 4-9-16	5-9-14 6-10-17	7-10-16 8-12-19	8-12-17 10-14-20
	3 Way 1-1-5	1-2-8 1-3-11	1-3-11 2-4-14	1-3-10 2-4-14	2-5-12 3-6-17	3-6-14 4-8-19	3-8-15 4-8-19	4-9-16 5-11-20	6-10-17 6-12-22	8-12-19 8-14-23	10-14-20 11-17-25
2 Way 1-2-6	1-2-8 1-3-14	1-3-11 2-4-14	2-4-14 2-5-17	3-6-17 3-8-21	4-8-19 5-11-24	4-8-19 5-11-24	5-11-20 6-14-26	6-12-22 8-16-27	8-14-23 10-17-29	11-17-25 13-19-27	
1 Way 1-2-8	1-3-11 1-3-14	2-4-14 2-5-17	2-5-17 3-8-21	3-8-21 5-11-24	5-11-24 7-14-25	5-11-24 7-14-25	6-14-26 8-16-27	8-16-27 10-17-29	10-17-29 14-21-31	13-19-27 16-24-34	
8 x 8	Total Pressure (in. w.g.)	.015	.026	.041	.059	.081	.106	.134	.165	.238	.324
	Flow Rate (cfm)	133	178	222	266	311	355	400	444	533	622
	Sound (NC)	-	-	20	26	31	35	38	42	47	52
	Throw (ft.)	4 Way 1-2-7	2-4-10 2-4-12	3-6-11 3-7-14	4-7-12 4-9-15	5-8-13 6-10-16	6-10-14 8-12-17	7-11-15 9-13-18	8-11-16 10-14-19	10-12-18 12-15-21	11-13-19 13-16-23
	3 Way 1-2-9	2-4-12 3-6-15	3-7-14 4-9-18	4-9-15 6-12-20	6-10-16 8-13-22	8-12-17 10-15-23	9-13-18 12-17-24	10-14-19 13-18-26	12-15-21 15-20-28	13-16-23 18-22-30	14-18-25 18-22-30
2 Way 1-3-12	3-6-15 3-7-19	4-9-18 5-11-23	6-12-20 7-14-25	8-13-22 10-17-27	10-15-23 13-19-29	12-17-24 14-22-31	13-18-26 16-23-32	15-20-28 19-25-35	18-22-30 22-27-38	18-22-30 22-27-38	
1 Way 2-4-14	3-7-19 5-11-23	5-11-23 7-14-25	7-14-25 10-17-27	10-17-27 13-19-29	13-19-29 16-23-32	16-23-32 19-25-35	19-25-35 22-27-38	22-27-38 25-31-44	25-31-44 27-34-48	27-34-48 30-36-42	
10 Ø	Total Pressure (in. w.g.)	.017	.030	.047	.067	.092	.120	.151	.187	.269	.367
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763
	Sound (NC)	-	16	23	28	33	37	41	44	50	54
	Throw (ft.)	4 Way 1-2-8	2-4-11 2-4-14	2-6-13 3-7-15	4-8-14 4-9-17	5-9-15 6-11-18	6-10-16 8-12-19	8-12-17 9-14-20	9-13-18 10-15-21	10-14-20 12-17-23	12-15-21 14-18-25
	3 Way 1-2-10	2-4-14 3-6-18	3-7-15 4-9-20	4-9-17 6-12-22	6-11-18 8-14-24	8-12-19 10-16-26	10-14-20 12-18-27	12-17-23 14-20-29	14-18-25 16-22-31	16-20-29 19-24-34	
2 Way 1-3-13	3-6-18 3-7-23	4-9-20 5-11-25	6-12-22 7-15-28	8-14-24 10-18-30	10-16-26 13-21-32	12-18-27 15-23-34	14-20-29 17-25-36	16-22-31 21-28-39	19-24-34 24-30-42		
1 Way 2-4-16	3-7-23 5-11-25	5-11-25 7-15-28	7-15-28 10-18-30	10-18-30 13-21-32	13-21-32 16-24-34	16-24-34 19-25-36	19-25-36 22-27-38	22-27-38 25-31-44	25-31-44 27-34-48		
10 x 10	Total Pressure (in. w.g.)	.019	.034	.054	.077	.105	.138	.174	.215	.310	.422
	Flow Rate (cfm)	208	278	347	416	486	555	625	694	833	972
	Sound (NC)	-	19	25	31	36	40	44	47	52	57
	Throw (ft.)	4 Way 2-4-10	3-7-13 4-8-15	5-9-14 6-10-17	7-10-16 8-12-19	8-12-17 10-14-20	9-13-18 11-15-22	10-13-19 12-16-23	11-14-20 14-17-24	13-16-22 15-19-26	14-17-24 16-20-29
	3 Way 2-5-12	4-8-15 5-11-20	6-10-17 8-14-23	8-12-19 11-16-25	10-14-20 13-19-27	11-15-22 15-20-29	12-16-23 16-22-31	14-17-24 18-23-32	15-19-26 20-25-35	16-20-29 22-27-38	
2 Way 3-6-16	5-11-20 6-14-25	8-14-23 9-17-28	11-16-25 14-21-31	13-19-27 16-24-34	15-20-29 18-25-36	16-22-31 21-27-38	18-23-32 23-28-40	20-25-35 25-31-44	22-27-38 27-34-48		
1 Way 3-8-21	6-14-25 9-17-28	9-17-28 12-21-31	12-21-31 16-24-34	16-24-34 19-25-36	19-25-36 22-27-38	22-27-38 25-31-44	25-31-44 27-34-48	27-34-48 30-36-42	30-36-42 33-39-45		

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDF-FR, PDFE-FR).

PERFORMANCE DATA

PDF/PDFE - 24 in. x 24 in. (continued)

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300	400	500	600	700	800	900	1000	1200	1400
12 Ø	Total Pressure (in. w.g.)	.021	.037	.058	.083	.113	.148	.187	.231	.332	.452
	Flow Rate (cfm)	236	314	393	471	550	628	707	785	942	1099
	Sound (NC)	-	20	27	32	37	41	45	48	54	59
	Throw (ft.)	2-4-11	3-6-14	4-9-15	6-11-17	8-12-18	9-14-19	11-14-20	12-15-21	14-17-23	15-18-25
	1 Way	2-4-13	3-8-16	5-11-18	8-13-20	10-15-21	11-16-23	13-17-24	14-18-26	16-20-28	18-21-30
12 x 12	Total Pressure (in. w.g.)	.024	.043	.067	.097	.131	.172	.217	.268	.386	.525
	Flow Rate (cfm)	300	400	500	600	700	800	900	1000	1200	1400
	Sound (NC)	-	23	30	35	40	44	48	51	57	61
	Throw (ft.)	3-6-13	5-9-15	8-11-17	9-13-19	11-14-20	12-15-22	13-16-23	14-17-24	15-19-26	16-20-29
	1 Way	3-8-16	6-11-18	9-14-20	11-16-22	13-17-24	15-18-26	16-19-27	17-20-29	18-22-32	20-24-34
14 Ø	Total Pressure (in. w.g.)	.025	.045	.070	.101	.137	.180	.227	.281	.404	.550
	Flow Rate (cfm)	321	428	535	641	748	855	962	1069	1283	1497
	Sound (NC)	-	24	30	36	41	45	49	52	57	62
	Throw (ft.)	3-6-14	5-9-16	7-12-18	9-14-19	11-15-21	12-16-22	14-17-24	14-18-25	16-19-27	17-21-30
	1 Way	3-7-16	6-11-19	9-14-21	11-16-23	13-18-25	15-19-27	16-20-28	17-21-30	19-23-33	20-25-35
14 x 14	Total Pressure (in. w.g.)	.029	.052	.081	.117	.159	.207	.263	.324	.467	.635
	Flow Rate (cfm)	408	544	681	817	953	1089	1225	1361	1633	1905
	Sound (NC)	17	26	33	39	44	48	51	55	60	65
	Throw (ft.)	4-9-15	8-12-18	10-14-20	12-15-22	14-17-24	15-18-25	15-19-27	16-20-28	18-22-31	19-24-33
	1 Way	5-11-19	9-14-21	12-17-24	14-19-26	16-20-28	17-21-30	19-23-32	20-24-34	21-26-37	23-28-40
15 Ø	Total Pressure (in. w.g.)	.028	.050	.078	.112	.153	.200	.252	.312	.449	.611
	Flow Rate (cfm)	368	491	614	736	859	982	1104	1227	1472	1718
	Sound (NC)	16	25	32	38	42	46	50	53	59	64
	Throw (ft.)	3-7-15	6-10-17	9-13-19	10-15-21	12-16-22	14-17-24	15-18-25	15-19-27	17-21-29	18-22-32
	1 Way	4-8-18	7-12-20	10-15-23	12-18-25	14-19-27	16-20-29	18-22-30	19-23-32	20-25-35	22-27-38

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDF-FR, PDFE-FR).

PERFORMANCE DATA

PDN/PDNE - 12 in. x 12 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 .006	400 .010	500 .016	600 .022	700 .031	800 .040	1000 .062	1200 .090	
6 Ø	Total Pressure (in. w.g.)	.013	.022	.035	.050	.069	.090	.140	.202	
	Flow Rate (cfm)	59	78	98	118	137	157	196	235	
	Sound (NC)	-	16	22	27	31	34	40	45	
	Throw (ft.)	4 Way	1-1-4	1-2-5	2-3-7	2-4-8	3-5-9	4-5-11	4-7-13	5-8-16
		3 Way	1-2-5	1-3-6	2-4-8	3-5-10	4-6-11	4-6-13	5-8-16	6-10-19
2 Way		1-2-6	2-4-9	3-5-11	4-6-13	5-7-15	6-9-17	7-11-21	9-13-26	
1 Way		1-3-8	2-5-11	3-7-13	5-8-16	6-9-19	7-11-21	9-13-27	11-16-32	
6 x 6	Total Pressure (in. w.g.)	.016	.029	.045	.065	.089	.116	.181	.260	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	
	Sound (NC)	-	-	19	24	28	32	38	42	
	Throw (ft.)	4 Way	1-1-5	1-3-6	2-4-8	3-5-9	4-5-11	4-6-12	5-8-15	6-9-18
		3 Way	1-2-5	1-3-7	2-5-9	3-5-11	4-6-13	5-7-14	6-9-18	7-11-22
2 Way		1-2-7	2-4-10	3-6-12	4-7-14	6-8-17	6-10-19	8-12-24	10-14-29	
1 Way		1-3-9	2-5-12	4-8-15	5-9-18	7-11-21	8-12-24	10-15-30	12-18-36	

PDN/PDNE - 12 in. x 24 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 .006	400 .010	500 .016	600 .022	700 .031	800 .040	900 .050	1000 .062	1200 .090	1400 .122	
6 Ø	Total Pressure (in. w.g.)	.012	.022	.034	.049	.067	.088	.111	.137	.198	.269	
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274	
	Sound (NC)	-	16	22	27	31	34	37	40	45	49	
	Throw (ft.)	4 Way	2-3-6	3-4-7	4-5-7	4-6-8	5-6-9	5-7-9	6-7-10	6-7-10	7-8-11	7-9-12
		3 Way	2-4-7	3-5-8	4-6-9	5-7-10	6-7-10	6-8-11	7-8-12	7-9-12	8-10-14	9-10-15
2 Way		3-5-9	5-7-11	6-8-12	7-9-13	8-10-14	9-11-15	9-11-16	10-12-17	11-13-18	11-14-20	
1 Way		3-6-11	6-9-13	7-10-15	9-11-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	14-17-25	
6 x 6	Total Pressure (in. w.g.)	.017	.029	.046	.066	.090	.118	.149	.184	.265	.360	
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350	
	Sound (NC)	-	-	19	24	28	32	35	38	42	46	
	Throw (ft.)	4 Way	2-4-6	3-5-7	4-6-8	5-6-9	6-7-10	6-7-11	6-8-11	7-8-12	7-9-13	8-10-14
		3 Way	2-4-8	4-6-9	5-7-10	6-8-12	7-8-12	7-9-13	8-9-13	8-10-14	9-11-15	10-12-17
2 Way		3-6-10	5-8-12	6-9-13	8-10-15	9-11-16	10-12-17	10-13-18	11-13-19	12-15-21	13-16-22	
1 Way		4-7-13	6-10-15	8-12-17	10-13-18	11-14-20	12-15-21	13-16-22	14-17-23	15-18-26	16-20-28	
6 x 18	Total Pressure (in. w.g.)	.019	.034	.053	.076	.104	.136	.172	.212	.305	.415	
	Flow Rate (cfm)	225	300	375	450	525	600	675	750	900	1050	
	Sound (NC)	-	20	26	31	35	38	41	44	49	53	
	Throw (ft.)	4 Way	3-6-11	6-8-13	7-10-14	8-11-16	10-12-17	11-13-18	11-14-19	12-14-20	13-16-22	14-17-24
		3 Way	4-8-13	7-10-15	8-12-17	10-13-19	12-14-20	13-15-22	13-16-23	14-17-24	15-19-27	17-20-29
2 Way		5-10-18	9-14-21	11-16-23	14-18-25	16-19-27	17-21-29	18-22-31	19-23-33	21-25-36	22-27-38	
1 Way		7-13-22	11-17-26	14-20-29	17-22-32	20-24-34	21-26-36	22-27-39	23-29-41	26-32-45	28-34-48	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDN-FR, PDNE-FR).

PERFORMANCE DATA

PDN/PDNE - 16 in. x 16 in.

Inlet Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000	1200	1400	
	Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.050	.062	.090	.122	
6 Ø	Total Pressure (in. w.g.)	.012	.021	.033	.047	.064	.084	.106	.131	.189	.257	
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274	
	Sound (NC)	-	16	22	27	31	34	37	40	45	49	
	Throw (ft.)	2-3-6	3-4-7	4-5-7	4-6-8	5-6-9	5-7-9	6-7-10	6-7-10	7-8-11	7-8-11	7-9-12
		2-4-7	3-5-8	4-6-9	5-7-10	6-7-10	6-8-11	7-8-12	7-9-12	8-10-14	8-10-14	9-10-15
6 x 6	Total Pressure (in. w.g.)	.017	.029	.046	.066	.090	.118	.149	.184	.265	.360	
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350	
	Sound (NC)	.017	.029	.046	.066	.090	.118	.149	.184	.265	.360	
	Throw (ft.)	2-4-6	3-5-7	4-6-8	5-6-9	6-7-10	6-7-11	6-8-11	7-8-12	7-9-13	8-10-14	
		2-4-8	4-6-9	5-7-10	6-8-11	7-8-12	7-9-13	8-9-13	8-10-14	9-11-15	10-12-17	
8 Ø	Total Pressure (in. w.g.)	.015	.027	.042	.061	.082	.108	.136	.168	.242	.330	
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489	
	Sound (NC)	-	19	25	30	34	38	41	44	48	53	
	Throw (ft.)	2-4-8	4-6-9	5-7-10	6-8-11	7-8-12	7-9-12	8-9-13	8-10-14	9-11-15	9-12-16	
		3-5-9	5-7-11	6-8-12	7-9-13	8-10-14	9-11-15	9-11-16	10-12-17	11-13-18	11-14-20	
8 x 8	Total Pressure (in. w.g.)	.018	.031	.049	.071	.096	.126	.159	.196	.283	.385	
	Flow Rate (cfm)	133	178	222	266	311	355	400	444	533	622	
	Sound (NC)	-	17	23	28	32	35	38	41	46	50	
	Throw (ft.)	3-5-9	4-6-10	5-8-11	6-9-12	8-9-13	8-10-14	9-10-15	9-11-16	10-12-17	11-13-19	
		3-6-10	5-8-12	6-9-13	8-10-15	9-11-16	10-12-17	10-13-18	11-13-19	12-15-21	13-16-22	
10 Ø	Total Pressure (in. w.g.)	.018	.032	.050	.072	.098	.128	.162	.200	.287	.391	
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763	
	Sound (NC)	-	22	28	33	37	40	44	46	51	55	
	Throw (ft.)	3-5-9	5-7-11	6-9-12	7-9-13	8-10-15	9-11-16	9-12-16	10-12-17	11-13-19	12-15-21	
		3-6-11	6-9-13	7-10-15	9-11-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	14-17-25	
10 x 10	Total Pressure (in. w.g.)	.019	.033	.051	.074	.101	.132	.167	.206	.296	.403	
	Flow Rate (cfm)	208	278	347	416	486	555	625	694	833	972	
	Sound (NC)	-	20	25	30	34	38	41	44	49	53	
	Throw (ft.)	3-6-11	5-8-12	7-10-14	8-11-15	9-12-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	
		4-7-13	7-10-15	8-12-17	10-13-18	11-14-20	12-15-21	13-16-22	14-17-23	15-18-26	16-20-28	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDN-FR, PDNE-FR).

PERFORMANCE DATA

PDN/PDNE - 20 in. x 20 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300	400	500	600	700	800	900	1000	1200	1400
6 Ø	Total Pressure (in. w.g.)	.012	.021	.033	.047	.064	.084	.106	.131	.189	.257
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274
	Sound (NC)	-	16	22	27	31	34	37	40	45	49
	Throw (ft.)										
	4 Way	2-3-6	3-4-7	4-5-7	4-6-8	5-6-9	5-7-9	6-7-10	6-7-10	7-8-11	7-9-12
6 x 6	Total Pressure (in. w.g.)	.017	.029	.046	.066	.090	.118	.149	.184	.265	.360
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350
	Sound (NC)	-	-	19	24	28	32	35	38	42	46
	Throw (ft.)										
	4 Way	2-4-6	3-5-7	4-6-8	5-6-9	6-7-10	6-7-10	6-8-11	7-8-12	7-9-13	8-10-14
8 Ø	Total Pressure (in. w.g.)	.015	.027	.042	.061	.082	.108	.136	.168	.242	.330
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489
	Sound (NC)	-	19	25	30	34	38	41	44	48	53
	Throw (ft.)										
	4 Way	2-4-8	4-6-9	5-7-10	6-8-11	7-8-12	7-9-12	8-9-13	8-10-14	9-11-15	9-12-16
8 x 8	Total Pressure (in. w.g.)	.018	.031	.049	.071	.096	.126	.159	.196	.283	.385
	Flow Rate (cfm)	133	178	222	266	311	355	400	444	533	622
	Sound (NC)	-	17	23	28	32	35	38	41	46	50
	Throw (ft.)										
	4 Way	3-5-9	4-6-10	5-8-11	6-9-12	8-9-13	8-10-14	9-10-15	9-11-16	10-12-17	11-13-19
10 Ø	Total Pressure (in. w.g.)	.018	.032	.050	.072	.098	.128	.162	.200	.287	.391
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763
	Sound (NC)	-	22	28	33	37	40	44	46	51	55
	Throw (ft.)										
	4 Way	3-5-9	5-7-11	6-9-12	7-9-13	8-10-15	9-11-16	9-12-16	10-12-17	11-13-19	12-15-21
10 x 10	Total Pressure (in. w.g.)	.019	.033	.051	.074	.101	.132	.167	.206	.296	.403
	Flow Rate (cfm)	208	278	347	416	486	555	625	694	833	972
	Sound (NC)	-	20	25	30	34	38	41	44	49	53
	Throw (ft.)										
	4 Way	3-6-11	5-8-12	7-10-14	8-11-15	9-12-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDN-FR, PDNE-FR).

PERFORMANCE DATA

PDN/PDNE - 24 in. x 24 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300	400	500	600	700	800	900	1000	1200	1400	
6 Ø	Total Pressure (in. w.g.)	.012	.021	.033	.047	.064	.084	.106	.131	.189	.257	
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274	
	Sound (NC)	-	16	22	27	31	34	37	40	45	49	
	Throw (ft.)	2-3-6	3-4-7	4-5-7	4-6-8	5-6-9	5-7-9	6-7-10	6-7-10	7-8-11	7-8-11	7-9-12
		2-4-7	3-5-8	4-6-9	5-7-10	6-7-10	6-8-11	7-8-12	7-9-12	8-10-14	8-10-14	9-10-15
6 x 6	Total Pressure (in. w.g.)	.017	.029	.046	.066	.090	.118	.149	.184	.265	.360	
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350	
	Sound (NC)	-	-	19	24	28	32	35	38	42	46	
	Throw (ft.)	2-4-6	3-5-7	4-6-8	5-6-9	6-7-10	6-7-11	6-8-11	7-8-12	7-9-13	8-10-14	
		2-4-8	4-6-9	5-7-10	6-8-11	7-8-12	7-9-13	8-9-13	8-10-14	9-11-15	10-12-17	
8 Ø	Total Pressure (in. w.g.)	.015	.027	.042	.061	.082	.108	.136	.168	.242	.330	
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489	
	Sound (NC)	-	19	25	30	34	38	41	44	48	53	
	Throw (ft.)	2-4-8	4-6-9	5-7-10	6-8-11	7-8-12	7-9-12	8-9-13	8-10-14	9-11-15	9-12-16	
		3-5-9	5-7-11	6-8-12	7-9-13	8-10-14	9-11-15	9-11-16	10-12-17	11-13-18	11-14-20	
8 x 8	Total Pressure (in. w.g.)	.018	.031	.049	.071	.096	.126	.159	.196	.283	.385	
	Flow Rate (cfm)	133	178	222	266	311	355	400	444	533	622	
	Sound (NC)	-	17	23	28	32	35	38	41	46	50	
	Throw (ft.)	3-5-9	4-6-10	5-8-11	6-9-12	8-9-13	8-10-14	9-10-15	9-11-16	10-12-17	11-13-19	
		3-6-10	5-8-12	6-9-13	8-10-15	9-11-16	10-12-17	10-13-18	11-13-19	12-15-21	13-16-22	
10 Ø	Total Pressure (in. w.g.)	.018	.032	.050	.072	.098	.128	.162	.200	.287	.391	
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763	
	Sound (NC)	-	22	28	33	37	40	44	46	51	55	
	Throw (ft.)	3-5-9	5-7-11	6-9-12	7-9-13	8-10-15	9-11-16	9-12-16	10-12-17	11-13-19	12-15-21	
		3-6-11	6-9-13	7-10-15	9-11-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	14-17-25	
10 x 10	Total Pressure (in. w.g.)	.019	.033	.051	.074	.101	.132	.167	.206	.296	.403	
	Flow Rate (cfm)	208	278	347	416	486	555	625	694	833	972	
	Sound (NC)	-	20	25	30	34	38	41	44	49	53	
	Throw (ft.)	3-6-11	5-8-12	7-10-14	8-11-15	9-12-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	
		4-7-13	7-10-15	8-12-17	10-13-18	11-14-20	12-15-21	13-16-22	14-17-23	15-18-26	16-20-28	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDN-FR, PDNE-FR).

PERFORMANCE DATA

PDN/PDNE - 24 in. x 24 in. (continued)

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300	400	500	600	700	800	900	1000	1200	1400	
12 Ø	Total Pressure (in. w.g.)	.020	.035	.055	.079	.107	.140	.177	.218	.314	.428	
	Flow Rate (cfm)	236	314	393	471	550	628	707	785	942	1099	
	Sound (NC)	17	24	30	35	39	43	46	49	53	57	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-6-11 4-8-14 6-10-18 7-13-23	6-9-13 7-10-16 9-14-21 12-17-26	7-10-15 9-12-18 12-17-24 14-21-29	9-11-16 10-14-19 14-18-26 17-23-32	10-12-17 12-15-21 16-20-28 20-25-35	11-13-19 13-16-22 17-21-30 21-26-37	11-14-20 14-17-24 18-22-32 24-29-42	12-15-21 14-18-25 19-24-33 26-32-46	13-16-23 16-19-27 21-26-36 28-35-49	14-17-25 17-21-30 23-28-39 28-35-49
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-7-13 5-9-15 6-12-21 8-15-26	7-10-15 8-12-18 10-16-24 13-20-30	8-12-17 10-14-20 13-19-27 16-23-33	10-13-18 12-15-22 16-21-29 20-26-36	11-14-20 14-17-24 18-22-31 23-28-39	14-15-21 15-18-25 19-24-34 24-30-42	13-16-22 15-19-27 21-25-36 26-32-45	14-17-23 16-20-28 22-27-38 27-33-47	15-18-26 18-22-31 24-29-41 30-36-51	16-20-28 19-24-33 26-31-44 32-39-56
12 x 12	Total Pressure (in. w.g.)	.020	.035	.055	.079	.107	.140	.177	.218	.314	.428	
	Flow Rate (cfm)	300	400	500	600	700	800	900	1000	1200	1400	
	Sound (NC)	-	22	28	32	37	40	43	46	51	55	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-7-13 5-9-15 6-12-21 8-15-26	7-10-15 8-12-18 10-16-24 13-20-30	8-12-17 10-14-20 13-19-27 16-23-33	10-13-18 12-15-22 16-21-29 20-26-36	11-14-20 14-17-24 18-22-31 23-28-39	14-15-21 15-18-25 19-24-34 24-30-42	13-16-22 15-19-27 21-25-36 26-32-45	14-17-23 16-20-28 22-27-38 27-33-47	15-18-26 18-22-31 24-29-41 30-36-51	16-20-28 19-24-33 26-31-44 32-39-56
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-8-13 5-9-16 7-12-21 8-15-27	7-10-15 8-12-18 11-16-25 13-20-31	8-12-17 10-15-21 13-19-27 17-24-34	10-13-19 12-16-23 16-21-30 20-27-38	12-14-20 14-17-24 19-23-32 23-29-41	13-15-22 15-18-26 20-25-35 25-31-43	13-16-23 16-20-28 21-26-37 27-33-46	14-17-24 17-21-29 22-27-39 28-34-49	15-19-27 18-23-32 25-30-43 31-38-53	17-20-29 20-24-34 27-32-46 33-41-57
14 Ø	Total Pressure (in. w.g.)	.022	.039	.061	.088	.119	.156	.197	.243	.350	.477	
	Flow Rate (cfm)	321	428	535	641	748	855	962	1069	1283	1497	
	Sound (NC)	19	26	32	37	41	44	48	50	55	59	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-8-13 5-9-16 7-12-21 8-15-27	7-10-15 8-12-18 11-16-25 13-20-31	8-12-17 10-15-21 13-19-27 17-24-34	10-13-19 12-16-23 16-21-30 20-27-38	12-14-20 14-17-24 19-23-32 23-29-41	13-15-22 15-18-26 20-25-35 25-31-43	13-16-23 16-20-28 21-26-37 27-33-46	14-17-24 17-21-29 22-27-39 28-34-49	15-19-27 18-23-32 25-30-43 31-38-53	17-20-29 20-24-34 27-32-46 33-41-57
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	5-9-15 6-10-18 8-14-24 10-17-30	8-12-17 9-14-21 12-18-28 15-23-35	10-14-19 12-16-23 15-22-31 19-27-39	12-15-21 14-18-25 18-24-34 23-30-42	13-16-23 16-19-28 21-26-37 26-32-46	14-17-24 17-21-29 23-28-39 28-35-49	15-18-26 18-22-31 24-29-42 30-37-52	16-19-27 19-23-33 25-31-44 32-39-55	17-21-30 21-25-36 28-34-48 35-42-60	19-23-32 22-28-39 30-37-52 37-46-65
14 x 14	Total Pressure (in. w.g.)	.020	.036	.056	.081	.110	.144	.182	.224	.323	.440	
	Flow Rate (cfm)	408	544	681	817	953	1089	1225	1361	1633	1905	
	Sound (NC)	16	24	30	34	38	42	45	48	53	57	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	5-9-15 6-10-18 8-14-24 10-17-30	8-12-17 9-14-21 12-18-28 15-23-35	10-14-19 12-16-23 15-22-31 19-27-39	12-15-21 14-18-25 18-24-34 23-30-42	13-16-23 16-19-28 21-26-37 26-32-46	14-17-24 17-21-29 23-28-39 28-35-49	15-18-26 18-22-31 24-29-42 30-37-52	16-19-27 19-23-33 25-31-44 32-39-55	17-21-30 21-25-36 28-34-48 35-42-60	19-23-32 22-28-39 30-37-52 37-46-65
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-8-14 5-10-17 7-13-23 9-16-28	7-11-16 9-13-20 11-17-26 14-21-33	9-13-18 11-16-22 14-21-29 18-26-37	11-14-20 13-17-24 17-23-32 21-28-40	13-15-22 15-18-26 20-25-35 25-31-44	13-16-23 16-20-28 21-26-37 27-33-47	14-17-25 17-21-30 23-28-39 28-35-49	15-18-26 18-22-31 24-29-42 30-37-52	16-20-28 20-24-34 26-32-46 33-40-57	18-22-31 21-26-37 28-35-49 36-44-62
15 Ø	Total Pressure (in. w.g.)	.023	.041	.064	.092	.125	.164	.207	.256	.368	.501	
	Flow Rate (cfm)	368	491	614	736	859	982	1104	1227	1472	1718	
	Sound (NC)	19	27	33	38	42	45	48	51	56	60	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-8-14 5-10-17 7-13-23 9-16-28	7-11-16 9-13-20 11-17-26 14-21-33	9-13-18 11-16-22 14-21-29 18-26-37	11-14-20 13-17-24 17-23-32 21-28-40	13-15-22 15-18-26 20-25-35 25-31-44	13-16-23 16-20-28 21-26-37 27-33-47	14-17-25 17-21-30 23-28-39 28-35-49	15-18-26 18-22-31 24-29-42 30-37-52	16-20-28 20-24-34 26-32-46 33-40-57	18-22-31 21-26-37 28-35-49 36-44-62
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	5-9-16 6-11-19 8-15-26 10-19-32	8-12-19 10-15-22 13-20-30 17-25-37	10-15-21 12-18-25 17-23-33 21-29-42	12-16-23 15-19-27 20-26-36 25-32-45	14-17-25 17-21-29 23-28-39 28-35-49	15-19-26 18-22-32 24-30-42 30-37-53	16-20-28 19-24-33 26-32-45 32-39-56	17-21-29 20-25-35 27-33-47 34-42-59	19-23-32 22-27-39 30-36-51 37-45-64	20-25-35 24-29-42 32-39-56 40-49-69
15 x 15	Total Pressure (in. w.g.)	.021	.037	.058	.083	.113	.148	.187	.231	.332	.452	
	Flow Rate (cfm)	469	625	782	938	1094	1250	1407	1563	1876	2188	
	Sound (NC)	17	24	30	35	39	43	46	49	54	58	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	5-9-16 6-11-19 8-15-26 10-19-32	8-12-19 10-15-22 13-20-30 17-25-37	10-15-21 12-18-25 17-23-33 21-29-42	12-16-23 15-19-27 20-26-36 25-32-45	14-17-25 17-21-29 23-28-39 28-35-49	15-19-26 18-22-32 24-30-42 30-37-53	16-20-28 19-24-33 26-32-45 32-39-56	17-21-29 20-25-35 27-33-47 34-42-59	19-23-32 22-27-39 30-36-51 37-45-64	20-25-35 24-29-42 32-39-56 40-49-69
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	5-9-16 6-11-19 8-15-26 10-19-32	8-12-19 10-15-22 13-20-30 17-25-37	10-15-21 12-18-25 17-23-33 21-29-42	12-16-23 15-19-27 20-26-36 25-32-45	14-17-25 17-21-29 23-28-39 28-35-49	15-19-26 18-22-32 24-30-42 30-37-53	16-20-28 19-24-33 26-32-45 32-39-56	17-21-29 20-25-35 27-33-47 34-42-59	19-23-32 22-27-39 30-36-51 37-45-64	20-25-35 24-29-42 32-39-56 40-49-69

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDN-FR, PDNE-FR).

PERFORMANCE DATA

PDC/PDCE - 12 in. x 12 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 .006	400 .010	500 .016	600 .022	700 .031	800 .040	1000 .062	1200 .090	
6 Ø	Total Pressure (in. w.g.)	0.015	0.027	0.042	0.061	0.083	0.108	0.169	0.243	
	Flow Rate (cfm)	59	78	98	118	137	157	196	235	
	Sound (NC)	-	-	-	18	23	28	35	42	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	3-4-7 3-4-8 3-4-9 4-5-11	3-5-8 4-5-10 4-6-10 5-7-14	4-6-8 4-7-11 5-7-11 6-9-18	5-7-9 5-8-12 6-9-12 7-11-21	6-7-10 6-9-13 7-9-13 8-12-23	6-8-11 7-10-14 8-10-14 9-14-25	7-8-12 9-11-16 9-11-16 12-18-28	8-9-13 10-12-17 10-12-17 14-21-30
	Total Pressure (in. w.g.)	0.016	0.028	0.044	0.063	0.086	0.112	0.175	0.252	
Flow Rate (cfm)	75	100	125	150	175	200	250	300		
Sound (NC)	-	-	-	19	24	29	37	43		
6 x 6	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	3-5-7 3-5-10 4-6-10 4-7-13	4-6-8 4-7-11 5-7-11 6-9-18	5-7-9 5-8-13 6-9-13 7-11-22	6-7-10 7-10-14 7-10-14 9-13-24	6-8-11 8-11-15 9-11-15 10-15-26	7-8-12 9-11-16 9-11-16 12-18-28	8-9-13 10-13-18 10-13-18 15-22-31	8-10-15 11-14-20 11-14-20 18-24-34

PDC/PDCE - 16 in. x 16 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 .006	400 .010	500 .016	600 .022	700 .031	800 .040	900 .050	1000 .062	1200 .090	1400 .122	
6 Ø	Total Pressure (in. w.g.)	0.015	0.027	0.042	0.061	0.083	0.108	0.137	0.169	0.243	0.330	
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274	
	Sound (NC)	59	78	98	118	137	157	176	196	235	274	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	2-3-5 2-3-7 2-4-7 2-4-9	3-4-6 3-4-9 3-5-9 4-6-12	3-5-7 4-5-10 4-6-10 5-7-15	4-5-8 4-7-11 5-7-11 6-9-18	5-6-8 5-8-12 6-8-12 7-10-20	5-6-9 6-9-12 7-9-12 8-12-21	5-7-9 7-9-13 7-9-13 9-13-23	6-7-10 7-10-14 8-10-14 10-15-24	6-8-11 9-11-15 9-11-15 12-18-26	7-8-12 9-12-16 9-12-16 14-20-28
	Total Pressure (in. w.g.)	0.016	0.028	0.044	0.063	0.086	0.112	0.142	0.175	0.252	0.343	
Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350		
Sound (NC)	-	-	-	19	24	29	33	37	43	48		
6 x 6	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	3-4-6 3-4-8 3-5-9 3-6-11	3-5-7 4-5-10 4-6-10 5-7-15	4-6-8 5-7-11 5-8-11 6-9-18	5-6-9 5-8-12 6-9-12 7-11-21	5-7-9 6-9-13 7-9-13 9-13-22	6-7-10 7-10-14 8-10-14 10-15-24	6-8-11 8-11-15 9-11-16 11-17-25	6-8-11 9-11-16 10-12-17 12-18-27	7-9-12 10-12-17 10-12-17 15-21-29	8-9-13 11-13-19 11-13-19 17-22-32
	Total Pressure (in. w.g.)	0.017	0.029	0.046	0.066	0.090	0.118	0.149	0.184	0.265	0.361	
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489	
	Sound (NC)	-	-	-	21	26	31	35	38	44	50	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-5-7 4-6-10 4-6-10 5-7-15	5-6-8 5-7-12 6-8-12 7-10-20	5-7-9 6-9-13 7-9-13 8-12-22	6-7-10 7-10-14 8-10-14 10-15-25	6-8-11 9-11-15 9-11-15 12-17-27	7-8-12 10-12-17 10-12-17 13-20-28	7-9-13 10-12-18 10-12-18 15-21-30	8-9-13 11-13-18 11-13-18 17-22-32	8-10-14 12-14-20 12-14-20 20-25-35	9-11-1 13-15-22 13-15-22 22-27-38
8 x 8	Total Pressure (in. w.g.)	0.017	0.031	0.048	0.069	0.094	0.122	0.155	0.191	0.275	0.374	
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489	
	Sound (NC)	-	-	-	21	26	31	35	38	44	50	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-6-8 5-7-11 5-8-11 6-9-18	5-7-9 6-9-13 7-9-13 8-12-23	6-7-11 8-10-15 9-10-15 10-15-25	7-8-12 9-11-16 9-11-16 12-18-28	7-9-12 10-12-17 10-12-17 14-21-30	8-9-13 11-13-19 11-13-19 16-23-32	8-10-14 11-14-20 11-14-20 18-24-34	9-11-15 12-15-21 12-15-21 20-25-36	9-12-16 13-16-23 13-16-23 23-28-39	10-12-18 14-17-25 14-17-25 24-30-42
	Total Pressure (in. w.g.)	0.018	0.032	0.050	0.072	0.098	0.128	0.162	0.200	0.287	0.391	
Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763		
Sound (NC)	-	-	17	23	28	33	37	40	47	52		
10 Ø	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	5-6-9 5-8-13 6-9-13 7-11-22	6-7-10 7-10-15 8-10-15 10-15-25	7-8-12 9-12-16 9-12-16 12-18-28	7-9-13 10-13-18 10-13-18 15-22-31	8-10-14 11-14-19 11-14-19 17-23-33	9-10-15 12-15-21 12-15-21 20-25-35	9-11-16 13-16-22 13-16-22 22-27-38	10-12-17 13-16-23 13-16-23 23-28-40	10-13-18 15-18-25 15-18-25 25-31-43	11-14-20 16-19-27 16-19-27 27-33-47
	Total Pressure (in. w.g.)	0.018	0.032	0.049	0.071	0.097	0.126	0.160	0.197	0.284	0.386	
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763	
	Sound (NC)	-	-	17	23	28	33	37	40	47	52	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	6-7-10 7-10-14 8-10-14 9-13-24	7-8-12 9-12-16 10-12-16 12-18-28	8-9-13 11-13-18 11-13-18 15-22-32	8-10-14 12-14-20 12-14-20 18-24-35	9-11-16 13-15-22 13-15-22 21-26-37	10-12-17 13-16-23 13-16-23 23-28-40	10-12-18 14-17-25 14-17-25 24-30-42	11-13-19 15-18-26 15-18-26 26-32-45	12-14-20 16-20-29 16-20-29 28-35-49	13-16-22 18-22-31 18-22-31 31-37-53

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks (-) indicate an NC level below 15.
8. Data does not include effects of ceiling radiation damper (PDC-FR, PDCE-FR).

PERFORMANCE DATA

PDC/PDCE - 24 in. x 24 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300	400	500	600	700	800	900	1000	1200	1400
6 in.	Total Pressure (in. w.g.)	0.015	0.027	0.042	0.061	0.083	0.108	0.137	0.169	0.243	0.330
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274
	Sound (NC)	-	-	-	18	23	28	32	35	42	47
	Throw (ft.)	2-3-5	3-4-6	3-5-7	4-5-8	5-6-8	5-6-9	5-7-9	6-7-10	6-8-11	7-8-12
	4 Way	2-3-6	3-4-8	3-5-10	4-6-11	5-7-12	5-8-12	6-9-13	7-10-14	8-11-15	9-12-16
	3 Way	2-4-7	3-5-9	4-6-10	5-7-11	6-8-12	7-9-12	7-9-13	8-10-14	9-11-15	9-12-16
6 in. x 6 in.	Total Pressure (in. w.g.)	0.016	0.028	0.044	0.063	0.086	0.112	0.142	0.175	0.252	0.343
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350
	Sound (NC)	-	-	-	19	24	29	33	37	43	48
	Throw (ft.)	2-4-6	3-5-7	4-6-8	5-6-9	5-7-9	6-7-10	6-8-11	6-8-11	7-9-12	8-9-13
	4 Way	3-4-8	3-5-10	4-6-11	5-8-12	6-9-13	7-10-14	8-11-15	8-11-16	10-12-17	11-13-19
	3 Way	3-4-9	4-6-10	5-7-11	6-9-12	7-9-13	8-10-14	9-11-15	9-11-16	10-12-17	11-13-19
8 in.	Total Pressure (in. w.g.)	0.017	0.029	0.046	0.066	0.090	0.118	0.149	0.184	0.265	0.361
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489
	Sound (NC)	-	-	-	21	26	31	35	38	44	50
	Throw (ft.)	3-5-7	4-6-8	5-7-9	6-7-10	6-8-11	7-8-12	7-9-13	8-9-13	8-10-14	9-11-16
	4 Way	3-5-10	5-7-12	6-9-13	7-10-14	8-11-15	9-12-17	10-12-18	11-13-18	12-14-20	13-15-22
	3 Way	4-6-10	5-8-12	6-9-13	8-10-14	9-11-15	10-12-17	10-12-18	11-13-18	12-14-20	13-15-22
8 in. x 8 in.	Total Pressure (in. w.g.)	0.017	0.031	0.048	0.069	0.094	0.122	0.155	0.191	0.275	0.374
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489
	Sound (NC)	-	-	-	21	26	31	35	38	44	50
	Throw (ft.)	4-6-8	5-7-9	6-7-11	7-8-12	7-9-12	8-9-13	8-10-14	9-11-15	9-12-16	10-12-18
	4 Way	4-6-11	6-8-13	7-10-15	8-11-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	14-17-25
	3 Way	5-7-11	6-9-13	8-10-15	9-11-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	14-17-25
10 in.	Total Pressure (in. w.g.)	0.018	0.032	0.050	0.072	0.098	0.128	0.162	0.200	0.287	0.391
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763
	Sound (NC)	-	-	17	23	28	33	37	40	47	52
	Throw (ft.)	5-6-9	6-7-10	7-8-12	7-9-13	8-10-14	9-10-15	9-11-16	10-12-17	10-13-18	11-14-20
	4 Way	5-8-13	7-10-15	8-12-16	10-13-18	11-14-19	12-15-21	13-16-22	13-16-23	15-18-25	16-19-27
	3 Way	6-9-13	8-10-15	9-12-16	10-13-18	11-14-19	12-15-21	13-16-22	13-16-23	15-18-25	16-19-27
10 in. x 10 in.	Total Pressure (in. w.g.)	0.018	0.032	0.049	0.071	0.097	0.126	0.160	0.197	0.284	0.386
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763
	Sound (NC)	-	-	17	23	28	33	37	40	47	52
	Throw (ft.)	6-7-10	7-8-12	8-9-13	8-10-14	9-11-16	10-12-17	10-12-18	11-13-19	12-14-20	13-16-22
	4 Way	6-9-14	8-12-16	10-13-18	12-14-20	13-15-22	13-16-23	14-17-25	15-18-26	16-20-29	18-22-31
	3 Way	7-10-14	9-12-16	11-13-18	12-14-20	13-15-22	13-16-23	14-17-25	15-18-26	16-20-29	18-22-31
12 in.	Total Pressure (in. w.g.)	0.019	0.033	0.052	0.075	0.102	0.133	0.169	0.208	0.300	0.409
	Flow Rate (cfm)	236	314	393	471	550	628	707	785	942	1099
	Sound (NC)	-	-	19	25	30	35	39	42	48	54
	Throw (ft.)	6-8-11	7-9-13	8-10-14	9-11-15	10-12-17	10-13-18	11-13-19	11-14-20	13-15-22	14-17-23
	4 Way	7-10-15	9-12-18	11-14-20	12-15-21	13-16-23	14-18-25	15-19-26	16-20-28	18-21-30	19-23-33
	3 Way	8-11-15	10-12-18	11-14-20	12-15-21	13-16-23	14-18-25	15-19-26	16-20-28	18-21-30	19-23-33
12 in. x 12 in.	Total Pressure (in. w.g.)	0.019	0.035	0.054	0.078	0.106	0.138	0.175	0.216	0.312	0.424
	Flow Rate (cfm)	300	400	500	600	700	800	900	1000	1200	1400
	Sound (NC)	-	-	20	26	31	36	40	44	50	55
	Throw (ft.)	7-9-12	8-10-14	9-11-16	10-12-17	11-13-19	12-14-20	12-15-21	13-16-22	14-17-24	15-19-26
	4 Way	8-12-17	11-14-20	13-16-22	14-17-24	15-19-26	16-20-28	17-21-30	18-22-31	20-24-34	21-26-37
	3 Way	10-12-17	11-14-20	13-16-22	14-17-24	15-19-26	16-20-28	17-21-30	18-22-31	20-24-34	21-26-37

For performance data, see end of section

PERFORMANCE DATA

PDC/PDCE - 24 in. x 24 in. (continued)

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300	400	500	600	700	800	900	1000	1200	1400	
14 in.	Total Pressure (in. w.g.)	0.020	0.035	0.055	0.079	0.107	0.140	0.177	0.219	0.315	0.428	
	Flow Rate (cfm)	321	428	535	641	748	855	962	1069	1283	1497	
	Sound (NC)	-	-	20	27	32	36	40	44	50	55	
	Throw (ft.)	4 Way	7-9-13	8-10-15	9-12-16	10-13-18	11-14-19	12-15-21	13-16-22	13-16-23	15-18-25	16-19-27
		3 Way	9-13-18	12-14-20	13-16-23	14-18-25	16-19-27	17-20-29	18-22-31	19-23-32	20-25-35	22-27-38
2 Way		10-13-18	12-14-20	13-16-23	14-18-25	16-19-27	17-20-29	18-22-31	19-23-32	20-25-35	22-27-38	
1 Way		12-18-30	16-24-35	20-28-39	24-30-43	27-33-46	29-35-50	30-37-53	32-39-55	35-43-61	38-46-66	
14 in. x 14 in.	Total Pressure (in. w.g.)	0.020	0.036	0.057	0.082	0.111	0.145	0.184	0.227	0.327	0.444	
	Flow Rate (cfm)	408	544	681	817	953	1089	1225	1361	1633	1905	
	Sound (NC)	-	-	22	28	33	37	41	45	51	56	
	Throw (ft.)	4 Way	8-10-14	10-12-16	11-13-18	12-14-20	13-15-22	13-16-23	14-17-25	15-18-26	16-20-29	18-22-31
		3 Way	11-14-20	13-16-23	15-18-26	16-20-28	18-22-31	19-23-33	20-24-35	21-26-37	23-28-40	25-31-43
2 Way		12-14-20	13-16-23	15-18-26	16-20-28	18-22-31	19-23-33	20-24-35	21-26-37	23-28-40	25-31-43	
1 Way		14-22-34	19-28-40	24-31-44	28-34-48	30-37-52	32-40-56	34-42-59	36-44-63	40-48-69	43-52-74	
15 in.	Total Pressure (in. w.g.)	0.020	0.036	0.056	0.080	0.109	0.143	0.181	0.223	0.321	0.437	
	Flow Rate (cfm)	368	491	614	736	859	982	1104	1227	1472	1718	
	Sound (NC)	-	-	21	27	32	37	41	45	51	56	
	Throw (ft.)	4 Way	8-10-14	9-11-16	10-12-18	11-14-19	12-15-21	13-16-22	14-17-23	14-18-25	16-19-27	17-21-29
		3 Way	10-13-19	13-16-22	14-17-25	16-19-27	17-21-29	18-22-31	19-23-33	20-25-35	22-27-38	24-29-41
2 Way		11-13-19	13-16-22	14-17-25	16-19-27	17-21-29	18-22-31	19-23-33	20-25-35	22-27-38	24-29-41	
1 Way		13-20-33	18-27-38	22-30-42	27-33-46	29-35-50	31-38-53	33-40-56	34-42-59	38-46-65	41-50-70	
15 in. x 15 in.	Total Pressure (in. w.g.)	0.021	0.037	0.058	0.083	0.114	0.148	0.188	0.232	0.334	0.454	
	Flow Rate (cfm)	469	625	782	938	1094	1250	1407	1563	1876	2188	
	Sound (NC)	-	-	22	28	34	38	42	46	52	57	
	Throw (ft.)	4 Way	9-11-15	10-13-18	11-14-20	13-15-22	14-17-23	14-18-25	15-19-27	16-20-28	18-22-31	19-23-33
		3 Way	12-15-21	14-18-25	16-20-28	18-21-30	19-23-33	20-25-35	21-26-37	23-28-39	25-30-43	27-33-46
2 Way		12-15-21	14-18-25	16-20-28	18-21-30	19-23-33	20-25-35	21-26-37	23-28-39	25-30-43	27-33-46	
1 Way		16-24-37	21-30-42	27-34-47	30-37-52	32-40-56	35-42-60	37-45-64	39-47-67	42-52-73	46-56-79	
16 in.	Total Pressure (in. w.g.)	0.020	0.036	0.057	0.082	0.112	0.146	0.184	0.228	0.328	0.446	
	Flow Rate (cfm)	419	558	698	838	977	1117	1256	1396	1675	1954	
	Sound (NC)	-	-	22	28	33	38	42	45	51	57	
	Throw (ft.)	4 Way	8-10-14	10-12-17	11-13-19	12-14-20	13-16-22	14-17-24	14-18-25	15-19-26	17-20-29	18-22-31
		3 Way	11-14-20	14-17-23	15-18-26	17-20-29	18-22-31	19-23-33	20-25-35	21-26-37	23-29-41	25-31-44
2 Way		12-14-20	14-17-23	15-18-26	17-20-29	18-22-31	19-23-33	20-25-35	21-26-37	23-29-41	25-31-44	
1 Way		15-22-35	20-28-40	24-32-45	28-35-49	31-38-53	33-40-57	35-43-60	37-45-63	40-49-69	43-53-75	
16 in. x 16 in.	Total Pressure (in. w.g.)	0.021	0.038	0.059	0.085	0.116	0.151	0.191	0.236	0.340	0.463	
	Flow Rate (cfm)	533	711	889	1067	1245	1422	1600	1778	2134	2489	
	Sound (NC)	-	15	23	29	34	39	43	46	53	58	
	Throw (ft.)	4 Way	9-12-16	11-13-19	12-15-21	13-16-23	14-18-25	15-19-27	16-20-28	17-21-30	19-23-33	20-25-35
		3 Way	13-16-23	15-19-26	17-21-30	19-23-32	20-25-35	22-26-37	23-28-40	24-30-42	26-32-46	29-35-49
2 Way		13-16-23	15-19-26	17-21-30	19-23-32	20-25-35	22-26-37	23-28-40	24-30-42	26-32-46	29-35-49	
1 Way		18-26-39	23-32-45	29-36-51	32-39-55	35-42-60	37-45-64	39-48-68	41-51-72	45-55-78	49-60-85	
18 in.	Total Pressure (in. w.g.)	0.021	0.038	0.059	0.085	0.116	0.151	0.191	0.236	0.340	0.463	
	Flow Rate (cfm)	530	707	884	1060	1237	1414	1590	1767	2120	2474	
	Sound (NC)	-	20	27	34	39	43	47	51	57	62	
	Throw (ft.)	4 Way	9-12-16	11-13-19	12-15-21	13-16-23	14-18-25	15-19-27	16-20-28	17-21-30	19-23-33	20-25-35
		3 Way	13-16-23	15-19-26	17-21-29	19-23-32	20-25-35	21-26-37	23-28-39	24-29-42	26-32-46	28-35-49
2 Way		13-16-23	15-19-26	17-21-29	19-23-32	20-25-35	21-26-37	23-28-39	24-29-42	26-32-46	28-35-49	
1 Way		17-26-39	23-32-45	29-36-50	32-39-55	34-42-60	37-45-64	39-48-68	41-50-71	45-55-78	49-60-84	
18 in. x 18 in.	Total Pressure (in. w.g.)	0.022	0.039	0.061	0.088	0.120	0.157	0.198	0.245	0.353	0.480	
	Flow Rate (cfm)	675	900	1125	1350	1575	1800	2025	2250	2700	3150	
	Sound (NC)	-	21	29	35	40	44	48	52	58	63	
	Throw (ft.)	4 Way	11-13-18	12-15-21	14-17-24	15-18-26	16-20-28	17-21-30	18-23-32	19-24-34	21-26-37	23-28-40
		3 Way	15-18-26	17-21-30	19-23-33	21-26-36	23-28-39	24-30-42	26-32-45	27-33-47	30-36-51	32-39-56
2 Way		15-18-26	17-21-30	19-23-33	21-26-36	23-28-39	24-30-42	26-32-45	27-33-47	30-36-51	32-39-56	
1 Way		21-31-44	28-36-51	33-40-57	36-44-62	39-48-67	42-51-72	44-54-76	46-57-80	51-62-88	55-67-95	

Performance Notes:

- Tested in accordance with ASHRAE Standard 70 – 2006 Method of Testing for Rating the Performance of Air Outlets and Inlets.
- Airflow is in cubic feet per minute [cfm].
- NC, sound pressure levels, are based on a room absorption of 10 dB re 10⁻¹² Watts, and a single diffuser/grille.
- Blanks (-) indicate an NC level below 15.
- All pressures are in inches of water column [in. w.g.].
- Pressures not listed can be calculated using the following formula:

$$P_{total} = P_{static} + P_{velocity}$$
- Throw data is based on supply air and room air being at isothermal conditions.
- Throw data is given in feet [ft] to terminal velocities of: 150 fpm (minimum)
100 fpm (middle)
50 fpm (maximum)
- Data does not include effects of ceiling radiation damper (PCF-FR, PDCE-FR).

PERFORMANCE DATA

PDMC/PDMCE - 12 in. x 12 in.

Inlet Size	Neck Velocity (fpm)		300	400	500	600	700	800	900	1000	1200
	Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062	0.090
Total Pressure (in. w.g.)		0.036		0.060	0.096	0.132	0.186	0.240	0.300	0.372	0.540
6 Ø	Flow Rate (cfm)		59	79	98	118	137	157	177	196	236
	Sound (NC)		-	-	19	25	31	35	40	44	50
	Throw (ft.)	4 Way	2-3-7	3-4-9	4-5-10	4-7-11	5-8-12	6-9-13	7-10-14	7-10-15	9-11-16
		3 Way	3-4-8	4-5-11	4-7-12	5-8-14	6-9-15	7-10-16	8-12-17	9-12-18	11-14-19
		2 Way	4-5-11	5-7-14	6-9-17	7-11-18	8-12-20	9-14-21	11-16-22	12-17-23	14-18-26
1 Way		4-7-13	6-9-18	7-11-21	9-13-23	10-15-24	12-17-26	13-20-28	15-21-29	18-23-32	
6 x 6	Flow Rate (cfm)		75	100	125	150	175	200	225	250	30
	Sound (NC)		-	-	20	26	32	37	41	45	51
	Throw (ft.)	4 Way	3-4-8	4-6-10	5-7-12	6-8-13	7-10-14	7-10-15	8-11-16	9-12-17	10-13-18
		3 Way	3-5-10	4-7-13	6-8-14	7-10-15	8-12-17	9-13-18	10-13-19	11-14-20	13-15-22
		2 Way	4-7-13	6-9-17	7-11-19	9-13-21	10-16-22	12-17-24	13-18-25	15-19-26	17-21-29
1 Way		6-8-17	7-11-21	9-14-23	11-17-26	13-20-28	15-21-30	17-22-31	19-23-33	21-26-36	

PDMC/PDMCE - 16 in. x 16 in.

Inlet Size	Neck Velocity (fpm)		300	400	500	600	700	800	900	1000	1200
	Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062	0.090
Total Pressure (in. w.g.)		0.036		0.060	0.096	0.132	0.186	0.240	0.300	0.372	0.540
6 Ø	Flow Rate (cfm)		59	79	98	118	137	157	177	196	236
	Sound (NC)		-	-	19	25	31	35	40	44	50
	Throw (ft.)	4 Way	2-3-7	3-4-8	4-5-9	4-7-10	5-7-10	6-8-11	7-8-12	7-9-12	8-10-14
		3 Way	3-4-8	4-5-10	4-7-11	5-8-12	6-9-13	7-9-13	8-10-14	9-11-15	9-12-16
		2 Way	4-5-11	5-7-13	6-9-14	7-11-15	8-12-17	9-13-18	11-13-19	12-14-20	13-15-22
1 Way		4-7-13	6-9-16	7-11-18	9-13-19	10-15-21	12-16-22	13-17-24	14-18-25	16-19-27	
6 x 6	Flow Rate (cfm)		75	100	125	150	175	200	225	250	300
	Sound (NC)		-	-	20	26	32	37	41	45	51
	Throw (ft.)	4 Way	3-4-8	4-6-9	5-7-10	6-8-11	7-8-12	7-9-13	8-9-13	8-10-14	9-11-15
		3 Way	3-5-9	4-7-11	6-8-12	7-9-13	8-10-14	9-11-15	9-11-16	10-12-17	11-13-19
		2 Way	4-7-12	6-9-14	7-11-16	9-12-17	10-13-19	12-14-20	12-15-21	13-16-23	14-17-25
1 Way		6-8-15	7-11-18	9-14-20	11-15-22	13-17-24	15-18-25	15-19-27	16-20-28	18-22-31	
8 Ø	Flow Rate (cfm)		105	140	175	209	244	279	314	349	419
	Sound (NC)		-	-	22	28	34	38	43	47	53
	Throw (ft.)	4 Way	2-4-8	3-5-10	4-6-12	5-8-13	6-9-14	7-10-15	8-11-16	8-12-17	10-13-18
		3 Way	2-5-9	4-6-12	5-8-14	6-9-15	7-11-17	8-12-18	9-13-19	10-14-20	12-15-22
		2 Way	3-6-12	5-8-16	7-10-19	8-12-21	9-14-22	11-16-24	12-18-25	14-19-27	16-21-29
1 Way		4-8-15	7-10-20	8-13-24	10-15-26	12-18-28	14-20-30	15-22-32	17-24-33	20-26-36	
8 x 8	Flow Rate (cfm)		133	178	222	267	311	356	400	444	533
	Sound (NC)		-	-	23	29	35	40	44	48	54
	Throw (ft.)	4 Way	3-5-10	4-6-12	5-8-13	6-10-15	8-11-16	9-12-17	10-13-18	11-13-19	12-15-21
		3 Way	4-6-12	5-8-14	6-10-16	8-12-17	9-13-19	10-14-20	12-15-21	13-16-23	14-17-25
		2 Way	5-8-15	7-10-19	9-13-21	10-16-23	12-18-25	14-19-27	16-20-29	17-21-30	19-23-33
1 Way		6-10-19	9-13-24	11-16-27	13-19-29	15-22-31	17-24-34	19-25-36	22-27-38	24-29-41	
10 Ø	Flow Rate (cfm)		164	218	273	327	382	436	491	545	654
	Sound (NC)		-	16	24	30	36	41	45	49	55
	Throw (ft.)	4 Way	2-5-9	4-6-12	5-8-15	6-9-16	7-11-17	8-12-19	9-14-20	10-15-21	12-16-23
		3 Way	3-5-11	5-7-14	6-9-18	7-11-19	8-13-21	10-14-22	11-16-24	12-18-25	14-19-27
		2 Way	3-7-14	6-10-19	8-12-24	10-14-26	11-17-28	13-19-30	14-22-32	16-24-33	19-26-36
1 Way		4-9-18	8-12-24	10-15-29	12-18-32	14-21-35	16-24-37	18-27-39	20-29-42	24-32-46	
10 x 10	Flow Rate (cfm)		208	278	347	417	486	556	625	694	833
	Sound (NC)		-	17	25	32	37	42	46	50	57
	Throw (ft.)	4 Way	4-6-11	5-8-15	6-10-17	8-12-18	9-13-20	10-15-21	11-16-22	13-17-23	15-18-26
		3 Way	4-7-14	6-9-18	8-11-20	9-14-22	11-16-24	12-18-25	14-19-27	15-20-28	18-22-31
		2 Way	6-9-18	8-12-24	10-15-27	12-18-29	14-21-31	16-24-34	18-25-36	20-27-38	24-29-41
1 Way		7-11-23	10-15-30	13-19-33	15-23-36	18-27-39	20-30-42	23-32-45	26-33-47	30-36-51	

Performance Notes:

- Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Airflow is in cubic feet per minute [cfm].
- NC, sound pressure levels, are based on a room absorption of 10 dB re 10-12 Watts, and a single diffuser/grille.
- Blanks (-) indicate an NC level below 15.
- All pressures are in inches of water column [in. w.g.].
- Pressures not listed can be calculated using the following formula:

$$P_{total} = P_{static} + P_{velocity}$$
- Throw data is based on supply air and room air being at isothermal conditions.
- Throw data is given in feet [ft] to terminal velocities of: 150 fpm (minimum) 100 fpm (middle) 50 fpm (maximum)
- Data does not include effects of ceiling radiation damper (PDMC-FR).

PERFORMANCE DATA

PDMC/PDMCE - 24 in. x 24 in.

Inlet Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000	1200	
	Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.050	.062	.090	
	Total Pressure (in. w.g.)	0.028	0.047	0.075	0.103	0.146	0.188	0.235	0.291	0.423	
6 Ø	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	
	Sound (NC)	-	-	19	25	31	35	40	44	50	
	Throw (ft.)	4 Way	2-3-7	3-4-8	4-5-8	4-7-9	5-7-10	6-8-11	7-8-11	7-8-12	8-9-13
		3 Way	3-4-8	4-5-9	4-7-10	5-8-11	6-8-12	7-9-13	8-10-14	8-10-14	9-11-16
		2 Way	4-5-10	5-7-12	6-9-13	7-10-15	8-11-16	9-12-17	10-13-18	11-13-19	12-15-21
1 Way		4-7-13	6-9-15	7-11-17	9-13-18	10-14-20	12-15-21	13-16-23	14-17-24	15-18-26	
6 x 6	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	
	Sound (NC)	-	-	20	26	32	37	41	45	51	
	Throw (ft.)	4 Way	3-4-7	4-6-8	5-7-9	6-7-10	6-8-11	7-8-12	7-9-13	8-9-13	8-10-15
		3 Way	3-5-9	4-7-10	6-8-11	7-9-12	8-10-13	8-10-14	9-11-15	9-11-16	10-12-18
		2 Way	4-7-12	6-9-14	7-11-15	9-12-17	10-13-18	11-14-19	12-14-20	12-15-21	14-17-24
1 Way		6-8-15	7-11-17	9-13-19	11-15-21	13-16-22	14-17-24	15-18-25	15-19-27	17-21-29	
8 Ø	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	
	Sound (NC)	-	-	22	28	34	38	43	47	53	
	Throw (ft.)	4 Way	2-4-8	3-5-10	4-6-11	5-8-12	6-9-13	7-10-14	8-11-15	8-11-16	10-12-17
		3 Way	2-5-9	4-6-12	5-8-13	6-9-15	7-11-16	8-12-17	9-13-18	10-13-19	12-15-21
		2 Way	3-6-12	5-8-16	7-10-18	8-12-20	9-14-21	11-16-23	12-17-24	14-18-25	16-20-28
1 Way		4-8-15	7-10-20	8-13-22	10-15-25	12-18-27	14-20-28	15-21-30	17-22-32	20-25-35	
8 x 8	Flow Rate (cfm)	133	178	222	267	311	356	400	444	533	
	Sound (NC)	-	-	23	29	35	40	44	48	54	
	Throw (ft.)	4 Way	3-5-10	4-6-11	5-8-13	6-10-14	8-11-15	9-11-16	10-12-17	10-13-18	11-14-20
		3 Way	4-6-12	5-8-14	6-10-15	8-12-17	9-13-18	10-14-19	12-14-20	12-15-21	14-17-24
		2 Way	5-8-15	7-10-18	9-13-20	10-16-22	12-17-24	14-18-26	16-19-27	17-20-29	18-22-31
1 Way		6-10-19	9-13-23	11-16-25	13-19-28	15-21-30	17-23-32	19-24-34	21-25-36	23-28-39	
10 Ø	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	
	Sound (NC)	-	16	24	30	36	41	45	49	55	
	Throw (ft.)	4 Way	2-5-9	4-6-12	5-8-14	6-9-15	7-11-17	8-12-18	9-13-19	10-14-20	12-15-22
		3 Way	3-5-11	5-7-14	6-9-17	7-11-18	8-13-20	10-14-21	11-16-23	12-17-24	14-18-26
		2 Way	3-7-14	6-10-19	8-12-22	10-14-25	11-17-27	13-19-28	14-21-30	16-22-32	19-25-35
1 Way		4-9-18	8-12-24	10-15-28	12-18-31	14-21-33	16-24-35	18-27-38	20-28-40	24-31-43	
10 x 10	Flow Rate (cfm)	208	278	347	417	486	556	625	694	833	
	Sound (NC)	-	17	25	32	37	42	46	50	57	
	Throw (ft.)	4 Way	4-6-11	5-8-14	6-10-16	8-12-17	9-13-19	10-14-20	11-15-21	13-16-22	14-17-24
		3 Way	4-7-14	6-9-17	8-11-19	9-14-21	11-16-22	12-17-24	14-18-25	15-19-27	17-21-29
		2 Way	6-9-18	8-12-23	10-15-25	12-18-28	14-21-30	16-23-32	18-24-34	20-25-36	23-28-39
1 Way		7-11-23	10-15-28	13-19-32	15-23-35	18-26-37	20-28-40	23-30-42	26-32-45	28-35-49	
12 Ø	Flow Rate (cfm)	236	314	393	471	550	628	707	785	942	
	Sound (NC)	-	18	26	32	38	43	47	51	57	
	Throw (ft.)	4 Way	2-5-11	4-7-14	6-9-17	7-11-18	8-12-20	9-14-21	11-16-23	12-17-24	14-18-26
		3 Way	3-6-13	5-8-17	7-11-20	8-13-22	10-15-24	11-17-26	13-19-27	14-20-29	17-22-31
		2 Way	4-8-17	7-11-22	9-14-27	11-17-29	13-20-32	15-22-34	17-25-36	19-27-38	22-29-42
1 Way		5-11-21	9-14-28	12-18-34	14-21-37	16-25-40	19-28-43	21-32-45	23-34-48	28-37-52	
12 x 12	Flow Rate (cfm)	300	400	500	600	700	800	900	1000	1200	
	Sound (NC)	-	19	27	34	39	44	48	52	59	
	Throw (ft.)	4 Way	4-7-13	6-9-17	7-11-19	9-13-21	10-16-22	12-17-24	13-18-25	15-19-27	17-21-29
		3 Way	5-8-16	7-11-20	9-13-23	11-16-25	13-19-27	14-20-29	16-22-31	18-23-32	20-25-35
		2 Way	6-11-21	10-14-27	12-18-30	14-21-33	17-25-36	19-27-38	21-29-41	24-30-43	27-33-47
1 Way		8-13-27	12-18-34	15-22-38	18-27-42	21-31-45	24-34-48	27-36-51	30-38-54	34-42-59	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cubic feet per minute [cfm].
3. NC, sound pressure levels, are based on a room absorption of 10 dB re 10-12 Watts, and a single diffuser/grille.
4. Blanks (-) indicate an NC level below 15.
5. All pressures are in inches of water column [in. w.g.].
6. Pressures not listed can be calculated using the following formula:

$$P_{total} = P_{static} + P_{velocity}$$
7. Throw data is based on supply air and room air being at isothermal conditions.
8. Throw data is given in feet [ft] to terminal velocities of: 150 fpm (minimum) 100 fpm (middle) 50 fpm (maximum)
9. Data does not include effects of ceiling radiation damper (PDMC-FR).

PERFORMANCE DATA

PDMC/PDMCE - 24 in. x 24 in. (continued)

Inlet Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000	1200	
	Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.050	.062	.090	
Total Pressure (in. w.g.)		0.028	0.047	0.075	0.103	0.146	0.188	0.235	0.291	0.423	
14 Ø	Flow Rate (cfm)	321	428	535	641	748	855	962	1069	1283	
	Sound (NC)	-	19	27	34	39	44	49	52	59	
	Throw (ft.)	4 Way	3-6-12	5-8-16	7-10-20	8-12-21	9-14-23	11-16-25	12-18-26	13-20-28	16-21-30
		3 Way	3-7-15	6-10-19	8-12-24	10-15-26	11-17-28	13-19-30	15-22-32	16-24-33	19-26-36
		2 Way	4-10-19	8-13-26	11-16-31	13-19-34	15-23-37	17-26-40	19-29-42	22-31-44	26-34-49
1 Way		5-12-24	10-16-32	13-20-39	16-24-43	19-28-46	22-32-50	24-36-53	27-39-55	32-43-61	
14 x 14	Flow Rate (cfm)	408	544	681	817	953	1089	1225	1361	1633	
	Sound (NC)	-	21	29	35	41	46	50	54	60	
	Throw (ft.)	4 Way	4-8-15	7-10-20	9-13-22	10-15-24	12-18-26	14-20-28	15-21-30	17-22-31	20-24-34
		3 Way	5-9-18	8-12-24	10-15-27	12-19-29	14-22-31	16-24-34	19-25-36	21-27-38	24-29-41
		2 Way	7-12-25	11-16-32	14-21-35	16-25-39	19-29-42	22-32-45	25-34-48	27-35-50	32-39-55
1 Way		9-15-31	14-21-40	17-26-44	21-31-49	24-36-52	27-40-56	31-42-59	34-44-63	40-48-69	
15 Ø	Flow Rate (cfm)	368	491	614	736	859	982	1104	1227	1473	
	Sound (NC)	-	20	28	35	40	45	49	53	60	
	Throw (ft.)	4 Way	3-6-13	5-9-17	7-11-21	9-13-23	10-15-25	11-17-27	13-19-28	14-21-30	17-23-33
		3 Way	3-8-15	6-10-21	9-13-25	10-15-28	12-18-30	14-21-32	15-23-34	17-25-36	21-28-39
		2 Way	5-10-21	8-14-28	11-17-34	14-21-37	16-24-40	18-28-43	21-31-45	23-34-48	28-37-52
1 Way		6-13-26	10-17-34	14-22-42	17-26-46	20-30-50	23-34-53	26-39-56	29-42-59	34-46-65	
15 x 15	Flow Rate (cfm)	469	625	781	938	1094	1250	1406	1563	1875	
	Sound (NC)	-	21	29	36	41	46	51	54	61	
	Throw (ft.)	4 Way	5-8-16	7-11-21	9-14-24	11-16-26	13-19-28	15-21-30	16-22-32	18-24-34	21-26-37
		3 Way	5-10-20	9-13-25	11-16-28	13-20-31	15-23-34	18-25-36	20-27-38	22-28-40	25-31-44
		2 Way	7-13-26	12-18-34	15-22-38	18-26-42	20-31-45	23-34-48	26-36-51	29-38-54	34-42-59
1 Way		9-16-33	15-22-42	18-27-47	22-33-52	26-38-56	29-42-60	33-45-64	37-47-67	42-52-73	
16 Ø	Flow Rate (cfm)	419	559	698	838	977	1117	1257	1396	1676	
	Sound (NC)	-	21	29	35	41	46	50	54	60	
	Throw (ft.)	4 Way	3-7-14	5-9-18	8-11-22	9-14-25	11-16-27	12-18-28	14-21-30	15-22-32	18-25-35
		3 Way	4-8-16	6-11-22	9-14-27	11-16-29	13-19-32	15-22-34	16-25-36	18-27-38	22-29-42
		2 Way	5-11-22	8-15-29	12-18-36	15-22-39	17-26-42	20-29-45	22-33-48	24-36-51	29-39-56
1 Way		6-13-27	11-18-37	15-23-45	18-27-49	21-32-53	24-37-57	27-41-60	30-45-63	37-49-69	
16 x 16	Flow Rate (cfm)	533	711	889	1067	1244	1422	1600	1778	2133	
	Sound (NC)	-	22	30	37	42	47	51	55	62	
	Throw (ft.)	4 Way	5-9-17	8-12-23	10-15-25	12-17-28	14-20-30	16-23-32	17-24-34	19-25-36	23-28-39
		3 Way	6-10-21	9-14-27	12-17-30	14-21-33	16-24-36	19-27-38	21-29-41	23-30-43	27-33-47
		2 Way	8-14-28	12-19-36	16-23-40	19-28-44	22-33-48	25-36-51	28-38-54	31-40-57	36-44-63
1 Way		10-17-35	16-23-45	19-29-51	23-35-55	27-41-60	31-45-64	35-48-68	39-51-72	45-55-78	
18 Ø	Flow Rate (cfm)	530	707	884	1060	1237	1414	1590	1767	2121	
	Sound (NC)	-	22	30	37	42	47	51	55	62	
	Throw (ft.)	4 Way	3-7-15	6-10-20	9-13-25	10-15-28	12-18-30	14-20-32	15-23-34	17-25-36	20-28-39
		3 Way	4-9-18	7-12-25	10-15-30	12-18-33	14-21-36	16-25-38	18-28-41	20-30-43	25-33-47
		2 Way	5-12-25	9-16-33	14-20-40	16-25-44	19-29-48	22-33-51	25-37-54	27-40-57	33-44-63
1 Way		7-15-31	12-20-41	17-26-50	20-31-55	24-36-60	27-41-64	31-46-68	34-50-71	41-55-78	
18 x 1	Flow Rate (cfm)	675	900	1125	1350	1575	1800	2025	2250	2700	
	Sound (NC)	-	23	31	38	43	48	52	56	63	
	Throw (ft.)	4 Way	5-10-20	9-13-25	11-16-28	13-20-31	15-23-34	17-25-36	20-27-38	22-28-40	25-31-44
		3 Way	6-12-23	10-16-31	13-20-34	16-23-37	18-27-40	21-31-43	23-32-46	26-34-48	31-37-53
		2 Way	8-16-31	14-21-41	17-26-46	21-31-50	24-36-54	28-41-58	31-43-61	35-46-64	41-50-71
1 Way		11-20-39	17-26-51	22-33-57	26-39-62	30-46-67	35-51-72	39-54-76	43-57-80	51-62-88	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cubic feet per minute [cfm].
3. NC, sound pressure levels, are based on a room absorption of 10 dB re 10-12 Watts, and a single diffuser/grille.
4. Blanks (-) indicate an NC level below 15.
5. All pressures are in inches of water column [in. w.g.].
6. Pressures not listed can be calculated using the following formula:

$$P_{total} = P_{static} + P_{velocity}$$
7. Throw data is based on supply air and room air being at isothermal conditions.
8. Throw data is given in feet [ft] to terminal velocities of: 150 fpm (minimum) 100 fpm (middle) 50 fpm (maximum)
9. Data does not include effects of ceiling radiation damper (PDMC-FR).

PERFORMANCE DATA

PDSP/PDSPE - 12 in. x 12 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 0.006	400 0.010	500 0.016	600 0.022	700 0.031	800 0.040	900 0.050	1000 0.062	1200 0.090
6 Ø	Total Pressure (in. w.g.)	0.020	0.033	0.052	0.072	0.102	0.131	0.164	0.203	0.295
	Flow Rate (cfm)	59	79	98	118	137	157	177	196	236
	Sound (NC)	-	-	-	20	26	30	34	37	43
	Throw (ft.)	1-3-7	2-4-9	4-6-10	4-7-10	5-8-11	6-9-12	7-9-13	7-10-14	9-10-15
6 x 6	Total Pressure (in. w.g.)	0.021	0.034	0.055	0.075	0.106	0.137	0.171	0.212	0.308
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300
	Sound (NC)	-	-	16	22	27	32	36	39	45
	Throw (ft.)	1-3-7	2-5-9	4-6-10	5-7-11	5-8-12	6-9-13	7-10-14	8-10-15	9-11-16

PDSP/PDSPE - 24 in. x 24 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 0.006	400 0.01	500 0.016	600 0.022	700 0.031	800 0.04	900 0.05	1000 0.062	1200 0.09	1400 0.122
6 x 6	Total Pressure (in. w.g.)	0.021	0.034	0.055	0.075	0.106	0.137	0.171	0.212	0.308	0.417
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350
	Sound (NC)	-	-	16	22	27	32	36	39	45	50
	Throw (ft.)	1-3-7	2-5-9	4-6-10	5-7-11	5-8-12	6-9-13	7-10-14	8-10-15	9-11-16	10-12-17
8 x 8	Total Pressure (in. w.g.)	0.023	0.038	0.061	0.083	0.118	0.152	0.190	0.235	0.341	0.463
	Flow Rate (cfm)	133	178	222	267	311	356	400	444	533	622
	Sound (NC)	-	-	20	26	32	36	40	43	49	55
	Throw (ft.)	2-4-8	3-5-10	4-7-12	5-8-13	6-9-14	7-10-15	8-12-16	9-12-17	10-13-19	12-14-20
10 x 10	Total Pressure (in. w.g.)	0.025	0.041	0.066	0.090	0.127	0.164	0.206	0.255	0.37	0.502
	Flow Rate (cfm)	208	278	347	417	486	556	625	694	833	972
	Sound (NC)	-	16	24	30	35	39	43	47	53	58
	Throw (ft.)	2-4-9	3-6-12	5-7-14	6-9-15	7-10-16	8-12-18	9-13-19	10-14-20	12-15-21	13-16-23
12 x 12	Total Pressure (in. w.g.)	0.026	0.044	0.070	0.097	0.136	0.176	0.220	0.272	0.395	0.536
	Flow Rate (cfm)	300	400	500	600	700	800	900	1000	1200	1400
	Sound (NC)	-	19	26	32	38	42	46	49	55	61
	Throw (ft.)	2-5-10	4-6-13	5-8-15	6-10-17	7-11-18	9-13-20	10-14-21	11-15-22	13-17-24	15-18-26
6 Ø	Total Pressure (in. w.g.)	0.020	0.033	0.052	0.072	0.102	0.131	0.164	0.203	0.295	0.400
	Flow Rate (cfm)	59	79	98	118	137	157	177	196	236	275
	Sound (NC)	-	-	-	20	26	30	34	37	43	49
	Throw (ft.)	1-3-7	2-4-9	4-6-10	4-7-10	5-8-11	6-9-12	7-9-13	7-10-14	9-10-15	9-11-16
8 Ø	Total Pressure (in. w.g.)	0.022	0.036	0.058	0.080	0.113	0.145	0.182	0.225	0.327	0.443
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489
	Sound (NC)	-	-	19	25	30	34	38	42	48	53
	Throw (ft.)	1-3-7	3-5-10	4-6-11	5-7-12	6-9-13	7-10-14	7-11-15	8-11-16	10-12-18	11-13-19
10 Ø	Total Pressure (in. w.g.)	0.024	0.039	0.063	0.087	0.122	0.157	0.197	0.244	0.354	0.480
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	764
	Sound (NC)	-	-	22	28	33	38	41	45	51	56
	Throw (ft.)	2-4-8	3-5-11	5-7-13	5-8-14	6-10-15	7-11-16	8-12-17	9-13-18	11-14-20	12-15-22
12 Ø	Total Pressure (in. w.g.)	0.025	0.042	0.067	0.092	0.130	0.168	0.210	0.261	0.378	0.513
	Flow Rate (cfm)	236	314	393	471	550	628	707	785	942	1100
	Sound (NC)	-	17	25	31	36	40	44	48	54	59
	Throw (ft.)	2-4-9	3-6-12	5-8-14	6-9-16	7-11-17	8-12-18	9-14-19	10-14-20	12-16-22	14-17-24
14 Ø	Total Pressure (in. w.g.)	0.027	0.044	0.071	0.098	0.138	0.178	0.222	0.275	0.400	0.542
	Flow Rate (cfm)	321	428	535	641	748	855	962	1069	1283	1497
	Sound (NC)	-	19	27	33	38	42	46	50	56	61
	Throw (ft.)	2-5-10	4-7-13	5-8-16	7-10-17	8-11-19	9-13-20	10-15-21	11-16-22	13-17-24	15-19-26
15 Ø	Total Pressure (in. w.g.)	0.027	0.046	0.073	0.100	0.141	0.182	0.228	0.282	0.410	0.556
	Flow Rate (cfm)	368	491	614	736	859	982	1104	1227	1473	1718
	Sound (NC)	-	21	28	34	39	44	47	51	57	62
	Throw (ft.)	2-5-10	4-7-14	6-8-16	7-10-18	8-12-19	9-14-21	10-15-22	11-16-23	14-18-25	16-19-27
16 Ø	Total Pressure (in. w.g.)	0.028	0.047	0.075	0.103	0.145	0.186	0.233	0.289	0.420	0.569
	Flow Rate (cfm)	419	559	698	838	977	1117	1257	1396	1676	1955
	Sound (NC)	-	21	29	35	40	44	48	52	58	63
	Throw (ft.)	3-5-10	5-7-14	6-9-17	7-10-19	8-12-20	9-14-22	10-16-23	12-17-24	14-19-26	16-20-29

Performance Notes:

- Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Airflow is in cfm.
- All pressures are in in. w.g.
- Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
- Throw data is based on supply air and room air being at isothermal conditions.
- NC, sound pressure levels, are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
- Blanks "-" indicate an NC level below 15.
- Data does not include effects of ceiling radiation damper (PDSP-FR, PDSPE-FR).



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