

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	
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	
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:

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.

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:

- 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).