

PERFORMANCE DATA - PPD SQUARE

AHRI Certification Rating Points

Damper 100% open and inlet velocity 750fpm

Inlet Size in.	Air Flow cfm	Adjusted Static Pressure in. w.g.	Discharge Sound Power Level (dB) Octave Band					
			2	3	4	5	6	7
6	148	0.08	37	41	40	34	24	22
8	262	0.13	44	41	41	34	27	22
10	410	0.13	46	42	39	33	25	21
12	590	0.18	52	47	44	40	34	26

Damper throttled to inlet velocity of 400fpm

Inlet Size in.	Air Flow cfm	Max. Recommended Static Pressure in. w.g.	Discharge Sound Power Level (dB) Octave Band					
			2	3	4	5	6	7
6	80	0.25	39	47	46	38	34	28
8	140	0.25	41	45	46	36	29	24
10	220	0.25	41	40	41	37	30	24
12	315	0.25	48	47	44	38	30	24

Performance Notes:

1. Air flow is in cfm.
2. All pressures are in in. w.g..
3. Sound Power Levels expressed in decibels (dB) re 10⁻¹² watts.

PERFORMANCE DATA - PBD SQUARE

Modulated Flow Selection Table

Inlet Destination	Inlet Static Pressure in.wg	Maximum Flow CFM	Maximum Flow		25% Maximum Flow	
			Throw - Feet* @ V _i = 50/100/150FPM	† NC	Throw* - Feet @ V _i = 50/100/150FPM	† NC
6"	.05	100	6/4/3	--	3/2/1	--
	.10	140	8/5/4	20	4/3/2	17
	.11	147	8/5/4	21	4/3/2	18
	.15	175	9/6/5	26	5/4/3	21
	.20	200	9/7/6	31	6/5/3	24
	.25	220	10/8/7	34	7/6/4	27
8"	.05	160	8/6/4	--	5/3/2	--
	.10	225	10/7/5	20	6/4/3	16
	.13	255	11/8/6	23	7/5/3	19
	.15	275	11/8/6	25	7/5/3	21
	.20	320	12/9/7	30	8/6/4	25
	.25	355	13/10/8	34	9/6/4	28
10"	.05	260	9/7/5	15	7/6/4	--
	.10	370	11/8/6	23	9/7/5	18
	.12	402	12/9/7	25	9/7/5	20
	.15	450	13/10/8	27	10/8/6	22
	.20	520	14/11/9	31	11/9/7	26
	.25	580	15/12/10	34	12/10/7	29
12"	.05	350	11/8/6	15	7/6/4	--
	.10	470	13/10/8	23	9/7/5	19
	.15	560	15/12/10	27	10/8/6	23
	.16	576	15/12/10	28	10/8/6	24
	.20	640	16/13/11	31	12/10/8	27
	.25	720	17/14/12	34	14/11/9	30

Performance Notes:

- * Throw data is for air 20°F/11°C lower than room temperature.
- Throws for isothermal air are 40 to 50% greater.
- † NC based on L_w (10⁻¹² watts reference) -10db
- Tested in accordance with ANSI/ASHRAE 70, ANSI S12.31, ARI 890, ISRO 5219 and ISO 3741.

PERFORMANCE DATA - PPD SQUARE

AHRI Certification Rating Points

Damper 100% open and inlet velocity 750fpm

Inlet Size in.	Air Flow cfm	Adjusted Static Pressure in. w.g.	Discharge Sound Power Level (dB) Octave Band					
			2	3	4	5	6	7
6	148	0.08	37	41	40	34	24	22
8	262	0.13	44	41	41	34	27	22
10	410	0.13	46	42	39	33	25	21
12	590	0.18	52	47	44	40	34	26

Damper throttled to inlet velocity of 400fpm

Inlet Size in.	Air Flow cfm	Max. Recommended Static Pressure in. w.g.	Discharge Sound Power Level (dB) Octave Band					
			2	3	4	5	6	7
6	80	0.25	39	47	46	38	34	28
8	140	0.25	41	45	46	36	29	24
10	220	0.25	41	40	41	37	30	24
12	315	0.25	48	47	44	38	30	24

Performance Notes:

1. Air flow is in cfm.
2. All pressures are in in. w.g..
3. Sound Power Levels expressed in deciBels (dB) re 10⁻¹² watts.

PERFORMANCE DATA - PRD ROUND

Maximum Flow Selection Table

Inlet Size	Neck Velocity (fpm)	400	500	600	700	800	900	1000
	Velocity Pressure (in. w.g.)	0.010	0.016	0.022	0.031	0.040	0.050	0.062
6"	Static Pressure (in. w.g.)			0.047	0.062	0.079	0.096	0.115
	Total Pressure (in. w.g.)			0.070	0.093	0.118	0.147	0.177
	Flow Rate (cfm)			118	137	157	177	196
	Sound (NC)			---	19	23	26	29
	Throw (ft.)			2-4-7	3-4-7	3-5-8	4-5-8	4-6-9
8"	Static Pressure (in. w.g.)		0.063	0.088	0.116	0.148	0.184	0.223
	Total Pressure (in. w.g.)		0.078	0.110	0.147	0.188	0.234	0.285
	Flow Rate (cfm)		175	209	244	279	314	349
	Sound (NC)		17	22	27	31	34	37
	Throw (ft.)		3-4-8	3-5-9	4-6-10	4-6-11	5-7-11	5-8-12
10"	Static Pressure (in. w.g.)		0.056	0.078	0.104	0.133	0.166	0.204
	Total Pressure (in. w.g.)		0.072	0.101	0.134	0.173	0.216	0.267
	Flow Rate (cfm)		273	327	382	436	491	545
	Sound (NC)		15	20	25	29	32	36
	Throw (ft.)		3-5-10	4-6-12	5-7-12	6-8-13	6-9-14	7-10-15
12"	Static Pressure (in. w.g.)	0.048	0.074	0.104	0.141	0.186	0.240	
	Total Pressure (in. w.g.)	0.058	0.089	0.127	0.172	0.226	0.291	
	Flow Rate (cfm)	314	393	471	550	628	707	
	Sound (NC)	---	19	24	29	33	37	
	Throw (ft.)	4-6-11	5-8-13	6-9-14	7-11-15	8-11-16	9-12-17	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate a NC level below 15.

Modulated Flow Selection Table

Inlet Size	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
6"	0.05	125	3-4-7	16	0-1-3	---
	0.10	185	4-6-9	27	1-2-4	---
	0.15	235	5-7-10	34	1-2-5	19
	0.20	280	6-8-11	39	2-3-6	24
	0.25	320	6-8-11	42	2-3-6	27
8"	0.05	160	2-4-7	---	0-1-2	---
	0.10	230	4-5-10	25	1-1-3	---
	0.15	285	4-7-11	31	1-2-4	---
	0.20	330	5-8-12	35	1-2-5	15
	0.25	370	6-9-12	39	2-3-5	18
10"	0.05	265	3-5-10	---	1-2-4	---
	0.10	380	5-7-12	25	2-3-6	---
	0.15	465	6-9-14	31	2-3-6	15
	0.20	535	7-10-15	35	3-4-7	19
	0.25	600	8-11-16	39	3-4-7	22
12"	0.05	330	4-7-12	---	1-2-4	---
	0.10	465	6-9-14	24	2-3-6	---
	0.15	565	8-11-15	30	2-3-7	---
	0.20	655	9-12-16	35	3-4-7	17
	0.25	720	10-12-17	38	3-4-8	20

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate a NC level below 15.

PERFORMANCE DATA - PSD SWIRL

Maximum Flow Selection Table

Inlet Size	Neck Velocity (fpm)	400	500	600	700	800	900	1000
	Velocity Pressure (in. w.g.)	0.010	0.016	0.022	0.031	0.040	0.050	0.062
6"	Static Pressure (in. w.g.)				0.054	0.071	0.090	0.112
	Total Pressure (in. w.g.)				0.085	0.111	0.141	0.174
	Flow Rate (cfm)				137	157	177	196
	Sound (NC)				16	20	24	28
	Throw (ft.)				1-2-5	1-3-5	2-3-6	2-3-7
8"	Static Pressure (in. w.g.)		0.063	0.092	0.125	0.164	0.209	0.259
	Total Pressure (in. w.g.)		0.079	0.114	0.156	0.204	0.259	0.322
	Flow Rate (cfm)		175	209	244	279	314	349
	Sound (NC)		---	19	24	29	33	36
	Throw (ft.)		2-3-6	2-4-6	3-4-7	3-5-7	4-5-8	4-6-8
10"	Static Pressure (in. w.g.)	0.051	0.081	0.117	0.160	0.212	0.271	
	Total Pressure (in. w.g.)	0.061	0.096	0.139	0.191	0.252	0.322	
	Flow Rate (cfm)	218	273	327	382	436	491	
	Sound (NC)	---	20	26	31	36	40	
	Throw (ft.)	2-4-6	3-5-7	4-6-8	4-6-9	5-6-9	6-7-10	
12"	Static Pressure (in. w.g.)	0.088	0.138	0.201	0.277			
	Total Pressure (in. w.g.)	0.098	0.154	0.223	0.307			
	Flow Rate (cfm)	314	393	471	550			
	Sound (NC)	21	28	34	39			
	Throw (ft.)	3-5-9	4-6-10	5-7-11	5-8-12			

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at isothermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate a NC level below 15.

Modulated Flow Selection Table

Inlet Size	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
6"	0.05	130	1-2-4	---	0-0-1	---
	0.10	185	2-3-6	26	0-0-1	17
	0.15	225	3-4-7	32	0-1-2	22
	0.20	260	3-4-8	37	0-1-3	25
	0.25	290	3-5-8	41	0-1-3	28
8"	0.05	155	1-3-5	---	0-0-1	---
	0.10	220	2-4-7	21	0-1-2	17
	0.15	270	3-5-7	27	0-1-3	22
	0.20	310	4-5-8	32	0-1-3	25
	0.25	345	4-6-8	36	1-1-3	28
10"	0.05	220	2-4-7	---	0-1-2	17
	0.10	305	3-5-8	24	0-1-3	24
	0.15	370	4-6-8	30	1-2-3	30
	0.20	425	5-6-9	35	1-2-3	33
	0.25	475	5-7-10	39	1-2-4	36
12"	0.05	240	2-4-7	---	0-1-2	---
	0.10	340	3-5-9	23	1-1-3	22
	0.15	410	4-6-10	29	1-2-3	28
	0.20	470	5-7-11	34	1-2-4	31
	0.25	525	5-8-12	38	2-3-4	34

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at isothermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate a NC level below 15.

PERFORMANCE DATA - PLD 1-Slot 1-Way Linear (Ceiling Mount)

Maximum Flow Selection Table

Nominal Length	Neck Velocity (fpm)	200	300	400	500	600	700	800
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040
24"	Static Pressure (in. w.g.)		0.096	0.193	0.291			
	Total Pressure (in. w.g.)		0.102	0.203	0.306			
	Flow Rate (cfm)		59	79	98			
	Sound (NC)		19	26	32			
	Throw (ft.)		5-8-11	9-14-20	12-19-25			
36"	Static Pressure (in. w.g.)			0.071	0.120	0.176	0.241	0.307
	Total Pressure (in. w.g.)			0.081	0.136	0.198	0.272	0.347
	Flow Rate (cfm)			79	98	118	137	157
	Sound (NC)			17	22	26	30	34
	Throw (ft.)			5-7-9	8-11-13	10-14-19	12-18-24	13-19-27
48"	Static Pressure (in. w.g.)		0.071	0.129	0.199			
	Total Pressure (in. w.g.)		0.077	0.139	0.215			
	Flow Rate (cfm)		105	140	175			
	Sound (NC)		12	26	31			
	Throw (ft.)		5-8-11	9-15-22	11-18-25			
60"	Static Pressure (in. w.g.)		0.055	0.090	0.141	0.199	0.286	
	Total Pressure (in. w.g.)		0.060	0.100	0.156	0.222	0.316	
	Flow Rate (cfm)		105	140	175	209	244	
	Sound (NC)		11	23	29	32	37	
	Throw (ft.)		5-6-8	7-9-11	9-15-17	11-16-20	13-20-27	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

Modulated Flow Selection Table

Nominal Length	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
24"	0.05	45	4-5-7	15	1-4-5	--
	0.10	60	5-8-11	19	2-5-7	15
	0.15	70	8-12-16	23	5-7-10	16
	0.20	80	10-14-20	27	6-10-12	21
	0.25	90	11-17-23	30	7-11-14	24
36"	0.05	70	7-5-4	15	1-4-5	--
	0.10	90	7-10-12	20	2-5-7	15
	0.15	110	8-12-16	24	5-7-10	17
	0.20	125	11-17-22	28	6-8-12	21
	0.25	140	12-18-24	31	7-11-14	24
48"	0.05	90	4-5-7	16	1-4-5	15
	0.10	125	7-12-17	23	5-7-10	17
	0.15	150	10-17-24	28	6-10-14	20
	0.20	175	11-18-25	31	7-12-16	24
	0.25	190	13-20-26	34	8-14-17	28
60"	0.05	100	5-6-7	17	1-4-5	15
	0.10	150	7-10-12	24	2-5-7	19
	0.15	180	10-16-18	30	5-7-11	23
	0.20	210	11-16-20	32	6-8-12	26
	0.25	230	12-18-24	35	7-11-14	29

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

PERFORMANCE DATA - PLD 2-Slot 1-Way Linear (Ceiling Mount)

Maximum Flow Selection Table

Nominal Length	Neck Velocity (fpm)	400	500	600	700	800	900	1000
	Velocity Pressure (in. w.g.)	0.010	0.016	0.022	0.031	0.040	0.050	0.062
24"	Static Pressure (in. w.g.)	0.077	0.120	0.170	0.225	0.290		
	Total Pressure (in. w.g.)	0.087	0.136	0.192	0.255	0.330		
	Flow Rate (cfm)	79	98	118	137	157		
	Sound (NC)	18	22	27	30	34		
	Throw (ft.)	5-7-9	7-10-13	9-14-18	10-16-22	12-18-25		
36"	Static Pressure (in. w.g.)		0.069	0.097	0.135	0.180	0.239	
	Total Pressure (in. w.g.)		0.084	0.119	0.165	0.220	0.290	
	Flow Rate (cfm)		98	118	137	157	177	
	Sound (NC)		19	23	25	28	32	
	Throw (ft.)		4-5-8	6-8-10	8-11-14	9-13-18	11-16-21	
48"	Static Pressure (in. w.g.)		0.075	0.112	0.155	0.199	0.257	0.315
	Total Pressure (in. w.g.)		0.090	0.134	0.186	0.239	0.307	0.377
	Flow Rate (cfm)		175	209	244	279	314	349
	Sound (NC)		20	25	30	32	35	39
	Throw (ft.)		7-11-14	10-17-20	13-21-27	14-22-29	16-23-30	17-24-32
60"	Static Pressure (in. w.g.)		0.054	0.083	0.114	0.149	0.193	0.236
	Total Pressure (in. w.g.)		0.069	0.105	0.145	0.189	0.243	0.299
	Flow Rate (cfm)		175	209	244	279	314	349
	Sound (NC)		18	22	26	30	32	34
	Throw (ft.)		4-5-8	7-10-14	9-14-19	11-17-23	12-18-24	13-20-13

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

Modulated Flow Selection Table

Nominal Length	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
24"	0.05	65	4-5-7	15	1-4-5	15
	0.10	90	6-8-11	20	2-5-7	19
	0.15	110	8-13-17	25	5-7-11	24
	0.20	130	10-16-20	29	6-8-12	28
	0.25	145	11-17-23	32	7-11-14	31
36"	0.05	85	2-4-6	16	1-1-4	15
	0.10	120	6-8-11	23	2-5-6	22
	0.15	145	8-12-16	26	5-7-10	25
	0.20	165	10-14-19	30	6-8-12	29
	0.25	180	11-17-22	33	7-11-14	32
48"	0.05	150	5-7-10	17	2-5-6	15
	0.10	200	10-16-18	24	5-7-11	20
	0.15	240	13-20-26	30	7-11-16	26
	0.20	280	14-22-29	32	8-13-17	28
	0.25	310	16-23-30	35	8-14-18	31
60"	0.05	170	4-5-7	17	1-4-5	16
	0.10	230	8-13-17	24	5-7-10	23
	0.15	280	11-17-23	30	6-10-14	29
	0.20	320	12-18-24	32	7-11-14	31
	0.25	360	13-20-26	35	7-12-16	34

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

PERFORMANCE DATA - PLD 2-Slot 2-Way Linear (Ceiling Mount)

Maximum Flow Selection Table

Nominal Length	Neck Velocity (fpm)	400	500	600	700	800	900	1000
	Velocity Pressure (in. w.g.)	0.010	0.016	0.022	0.031	0.040	0.050	0.062
24"	Static Pressure (in. w.g.)	0.071	0.114	0.146	0.185	0.230	0.279	0.328
	Total Pressure (in. w.g.)	0.081	0.129	0.169	0.215	0.270	0.330	0.391
	Flow Rate (cfm)	79	98	118	137	157	177	196
	Sound (NC)	15	17	21	24	28	33	38
	Throw (ft.)	3-4-5	4-6-7	5-8-10	6-9-12	7-11-14	10-13-18	12-16-21
36"	Static Pressure (in. w.g.)		0.076	0.104	0.132	0.168	0.222	0.288
	Total Pressure (in. w.g.)		0.092	0.126	0.163	0.208	0.273	0.350
	Flow Rate (cfm)		98	118	137	157	177	196
	Sound (NC)		16	17	20	25	30	35
	Throw (ft.)		3-5-7	4-6-9	5-8-10	7-9-12	9-11-14	11-13-17
48"	Static Pressure (in. w.g.)		0.075	0.112	0.155	0.199	0.257	0.315
	Total Pressure (in. w.g.)		0.090	0.134	0.186	0.239	0.307	0.377
	Flow Rate (cfm)		175	209	244	279	314	349
	Sound (NC)		17	21	25	29	34	38
	Throw (ft.)		6-8-11	9-11-14	11-14-16	12-17-20	13-18-23	15-20-26
60"	Static Pressure (in. w.g.)		0.053	0.078	0.104	0.139	0.180	0.224
	Total Pressure (in. w.g.)		0.069	0.101	0.135	0.179	0.231	0.286
	Flow Rate (cfm)		175	209	244	279	314	349
	Sound (NC)		15	18	21	25	29	32
	Throw (ft.)		4-5-7	4-6-9	5-7-10	6-9-11	7-12-15	10-15-19

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
- Air Flow is in cubic feet per minute, CFM.
- All pressures are in inches of water.
- Throw values are given in feet to terminal velocities of 150-100-50 fpm.
- Throw data is based on supply air and room air at isothermal condition.
- The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
- Blanks "---" indicate an NC level below 15.

Modulated Flow Selection Table

Nominal Length	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
24"	0.05	70	2-4-5	--	1-1-4	--
	0.10	90	4-5-6	15	1-4-5	15
	0.15	120	5-8-11	21	4-5-7	20
	0.20	145	6-10-12	25	4-6-8	24
	0.25	165	8-12-16	30	5-7-10	29
36"	0.05	80	2-4-5	15	1-1-4	--
	0.10	115	4-6-8	16	1-4-5	15
	0.15	150	6-8-11	23	2-5-7	22
	0.20	170	8-11-13	28	4-6-8	27
	0.25	185	10-12-16	32	5-7-10	31
48"	0.05	150	4-6-8	15	1-4-5	15
	0.10	200	8-11-13	20	2-5-7	19
	0.15	240	11-13-16	25	5-7-10	25
	0.20	280	12-17-20	29	6-8-12	29
	0.25	310	13-18-23	33	7-11-14	32
60"	0.05	170	4-5-7	15	1-4-5	15
	0.10	240	5-7-10	20	2-4-6	19
	0.15	290	6-10-12	26	4-5-8	25
	0.20	330	8-13-17	31	5-7-11	30
	0.25	370	11-17-22	34	6-10-13	33

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
- Air Flow is in cubic feet per minute, CFM.
- All pressures are in inches of water.
- Throw values are given in feet to terminal velocities of 150-100-50 fpm.
- Throw data is based on supply air and room air at isothermal condition.
- The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
- Blanks "---" indicate an NC level below 15.

PERFORMANCE DATA - PLD 4-Slot 1-Way Linear (Ceiling Mount)

Maximum Flow Selection Table

Nominal Length	Neck Velocity (fpm)	600	700	800	900	1000	1100	1200
	Velocity Pressure (in. w.g.)	0.022	0.031	0.040	0.050	0.062	0.075	0.090
24"	Static Pressure (in. w.g.)	0.100	0.134	0.174	0.220	0.270	0.320	
	Total Pressure (in. w.g.)	0.122	0.165	0.214	0.271	0.332	0.395	
	Flow Rate (cfm)	209	244	279	314	349	384	
	Sound (NC)	26	27	30	34	37	40	
	Throw (ft.)	8-12-16	10-16-21	11-19-23	13-20-24	15-23-26	18-25-27	
36"	Static Pressure (in. w.g.)	0.071	0.096	0.124	0.154	0.189	0.230	0.274
	Total Pressure (in. w.g.)	0.093	0.127	0.164	0.205	0.251	0.305	0.363
	Flow Rate (cfm)	209	244	279	314	349	384	419
	Sound (NC)	20	25	28	30	33	36	38
	Throw (ft.)	7-10-11	9-14-16	11-16-20	12-17-23	14-21-25	15-22-26	16-23-27
48"	Static Pressure (in. w.g.)	0.055	0.076	0.097	0.123	0.150	0.179	0.217
	Total Pressure (in. w.g.)	0.077	0.106	0.137	0.173	0.213	0.254	0.307
	Flow Rate (cfm)	327	382	436	491	545	600	654
	Sound (NC)	16	22	27	31	34	36	39
	Throw (ft.)	11-16-20	13-18-22	14-20-24	17-24-27	19-28-31	24-33-41	26-36-43
60"	Static Pressure (in. w.g.)	0.071	0.094	0.122	0.153	0.191	0.230	0.270
	Total Pressure (in. w.g.)	0.093	0.125	0.162	0.204	0.253	0.306	0.360
	Flow Rate (cfm)	471	550	628	707	785	864	942
	Sound (NC)	21	27	31	34	37	40	42
	Throw (ft.)	15-21-24	17-25-29	20-29-34	22-32-39	26-35-42	29-38-46	31-41-50

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

Modulated Flow Selection Table

Nominal Length	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
24"	0.05	150	4-6-7	4	1-4-5	15
	0.10	210	8-12-16	8	5-7-10	24
	0.15	260	11-18-23	11	6-10-13	26
	0.20	300	12-19-24	12	7-11-14	31
	0.25	335	14-22-25	14	8-12-16	34
36"	0.05	180	5-6-7	5	1-4-5	15
	0.10	250	10-14-17	10	5-7-10	24
	0.15	310	12-17-23	12	6-10-13	28
	0.20	360	14-22-25	14	8-12-16	32
	0.25	400	16-23-26	16	8-14-17	35
48"	0.05	315	11-16-19	11	5-8-11	15
	0.10	445	14-20-24	14	6-10-12	26
	0.15	545	19-28-31	19	8-12-16	32
	0.20	630	25-35-42	25	11-18-23	36
	0.25	700	29-38-44	29	14-22-25	39
60"	0.05	400	13-17-20	13	5-8-11	15
	0.10	570	18-26-30	18	8-12-14	20
	0.15	700	22-31-38	22	11-16-18	31
	0.20	805	26-36-43	26	14-19-25	36
	0.25	903	30-40-48	30	17-23-30	38

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

PERFORMANCE DATA - PLD 4-Slot 2-Way Linear (Ceiling Mount)

Maximum Flow Selection Table

Nominal Length	Neck Velocity (fpm)	600	700	800	900	1000	1100	1200
	Velocity Pressure (in. w.g.)	0.022	0.031	0.040	0.050	0.062	0.075	0.090
24"	Static Pressure (in. w.g.)	0.100	0.134	0.174	0.220	0.270	0.320	
	Total Pressure (in. w.g.)	0.122	0.165	0.214	0.271	0.332	0.395	
	Flow Rate (cfm)	209	244	279	314	349	384	
	Sound (NC)	23	25	28	31	34	37	
	Throw (ft.)	4-6-8	5-8-10	7-10-12	9-12-14	10-14-17	11-17-19	
36"	Static Pressure (in. w.g.)	0.066	0.090	0.116	0.144	0.179	0.217	0.261
	Total Pressure (in. w.g.)	0.089	0.120	0.156	0.195	0.241	0.293	0.351
	Flow Rate (cfm)	209	244	279	314	349	384	419
	Sound (NC)	18	21	24	27	29	32	35
	Throw (ft.)	4-6-7	5-7-9	6-8-10	7-9-12	9-11-13	10-13-15	11-15-17
48"	Static Pressure (in. w.g.)	0.073	0.096	0.126	0.158	0.197	0.236	0.275
	Total Pressure (in. w.g.)	0.095	0.127	0.166	0.208	0.259	0.311	0.364
	Flow Rate (cfm)	327	382	436	491	545	600	654
	Sound (NC)	20	24	29	33	37	38	40
	Throw (ft.)	7-9-11	8-11-13	10-13-15	11-15-17	12-17-20	14-19-23	16-22-26
60"	Static Pressure (in. w.g.)	0.062	0.084	0.108	0.136	0.168	0.202	0.241
	Total Pressure (in. w.g.)	0.084	0.115	0.148	0.187	0.230	0.277	0.331
	Flow Rate (cfm)	471	550	628	707	785	864	942
	Sound (NC)	22	27	31	34	36	39	41
	Throw (ft.)	8-10-12	9-11-13	10-13-15	11-15-18	13-18-20	14-19-23	15-21-25

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

Modulated Flow Selection Table

Nominal Length	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
24"	0.05	150	2-4-5	15	1-2-4	15
	0.10	210	4-6-8	23	1-4-5	22
	0.15	260	6-8-11	26	2-5-6	25
	0.20	300	8-11-13	30	4-6-8	29
	0.25	335	10-13-16	33	5-7-10	32
36"	0.05	185	4-5-6	15	1-2-4	15
	0.10	260	5-7-10	23	2-5-6	22
	0.15	320	7-10-12	27	4-6-7	26
	0.20	370	10-12-14	31	5-7-10	30
	0.25	410	11-14-17	34	5-8-11	33
48"	0.05	275	6-8-10	15	4-5-6	15
	0.10	390	8-11-13	25	5-8-11	24
	0.15	480	11-14-17	32	8-12-14	31
	0.20	550	12-17-20	37	10-14-17	36
	0.25	620	14-20-24	39	12-17-19	38
60"	0.05	430	7-10-11	20	4-5-6	15
	0.10	605	10-12-14	30	5-8-11	20
	0.15	745	12-17-19	35	8-13-17	29
	0.20	860	14-19-23	39	10-16-18	34
	0.25	960	16-22-25	42	12-18-22	36

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

PERFORMANCE DATA - PLD 1-Slot 1-Way Linear (Wall Mount)

Maximum Flow Selection Table

Nominal Length	Neck Velocity (fpm)	200	300	400	500	600	700	800
	Velocity Pressure (in. w.g.)	0.002	0.006	0.010	0.016	0.022	0.031	0.040
24"	Static Pressure (in. w.g.)		0.096	0.193	0.291			
	Total Pressure (in. w.g.)		0.102	0.203	0.306			
	Flow Rate (cfm)		59	79	98			
	Sound (NC)		15	24	29			
	Throw (ft.)		5-5-6	5-6-7	7-8-9			
36"	Static Pressure (in. w.g.)			0.071	0.120	0.176	0.241	0.307
	Total Pressure (in. w.g.)			0.081	0.136	0.198	0.272	0.347
	Flow Rate (cfm)			79	98	118	137	157
	Sound (NC)			17	20	24	27	31
	Throw (ft.)			3-4-5	5-5-6	5-6-7	6-7-8	6-7-8
48"	Static Pressure (in. w.g.)		0.071	0.129	0.199			
	Total Pressure (in. w.g.)		0.077	0.139	0.215			
	Flow Rate (cfm)		105	140	175			
	Sound (NC)		12	23	28			
	Throw (ft.)		4-4-5	4-6-7	6-7-8			
60"	Static Pressure (in. w.g.)		0.055	0.090	0.141	0.199	0.286	
	Total Pressure (in. w.g.)		0.060	0.100	0.156	0.222	0.316	
	Flow Rate (cfm)		105	140	175	209	244	
	Sound (NC)		9	21	25	29	34	
	Throw (ft.)		4-4-5	5-5-6	6-7-8	6-7-8	6-7-10	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

Modulated Flow Selection Table

Nominal Length	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
24"	0.05	45	2-4-5	--	1-1-1	--
	0.10	60	5-5-6	15	1-1-1	--
	0.15	70	5-5-6	21	1-1-2	--
	0.20	80	5-6-7	24	1-2-4	15
	0.25	90	6-7-8	27	2-4-5	21
36"	0.05	70	2-4-5	15	1-1-1	--
	0.10	90	5-5-6	19	1-1-1	--
	0.15	110	5-5-6	22	1-1-2	--
	0.20	125	6-7-8	25	1-2-4	15
	0.25	140	6-7-8	28	2-4-5	21
48"	0.05	90	4-4-5	15	1-1-1	--
	0.10	125	4-5-6	21	1-1-2	--
	0.15	150	5-6-7	25	2-2-4	15
	0.20	175	6-7-8	28	2-4-5	21
	0.25	190	7-8-10	31	2-4-5	24
60"	0.05	100	4-4-5	15	1-1-1	--
	0.10	150	5-5-6	22	1-1-1	15
	0.15	180	6-7-8	26	1-1-2	20
	0.20	210	6-7-8	29	1-1-2	22
	0.25	230	6-7-10	32	2-2-4	25

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

PERFORMANCE DATA - PLD 2-Slot 1-Way Linear (Wall Mount)

Maximum Flow Selection Table

Nominal Length	Neck Velocity (fpm)	400	500	600	700	800	900	1000
	Velocity Pressure (in. w.g.)	0.010	0.016	0.022	0.031	0.040	0.050	0.062
24"	Static Pressure (in. w.g.)	0.077	0.120	0.170	0.225	0.290	0.356	
	Total Pressure (in. w.g.)	0.087	0.136	0.192	0.255	0.330	0.406	
	Flow Rate (cfm)	79	98	118	137	157	177	
	Sound (NC)	17	21	25	30	33	35	
	Throw (ft.)	4-4-5	5-5-6	5-6-8	6-7-8	6-7-8	6-7-8	
36"	Static Pressure (in. w.g.)		0.069	0.097	0.135	0.180	0.239	0.304
	Total Pressure (in. w.g.)		0.084	0.119	0.165	0.220	0.290	0.367
	Flow Rate (cfm)		98	118	137	157	177	196
	Sound (NC)		18	22	23	27	31	33
	Throw (ft.)		3-3-4	4-4-5	4-4-6	5-6-7	6-7-8	7-9-10
48"	Static Pressure (in. w.g.)		0.075	0.112	0.155	0.199	0.257	0.315
	Total Pressure (in. w.g.)		0.090	0.134	0.186	0.239	0.307	0.377
	Flow Rate (cfm)		175	209	244	279	314	349
	Sound (NC)		19	24	27	30	32	35
	Throw (ft.)		7-8-9	7-9-10	9-10-11	10-11-12	10-11-12	10-11-12
60"	Static Pressure (in. w.g.)		0.054	0.083	0.114	0.149	0.193	0.236
	Total Pressure (in. w.g.)		0.069	0.105	0.145	0.189	0.243	0.299
	Flow Rate (cfm)		175	209	244	279	314	349
	Sound (NC)		16	20	24	27	30	31
	Throw (ft.)		4-5-6	5-6-8	6-8-9	7-8-10	7-9-11	8-10-12

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

Modulated Flow Selection Table

Nominal Length	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
24"	0.05	65	4-4-5	15	1-1-1	--
	0.10	90	5-5-6	19	1-1-1	15
	0.15	110	5-6-7	23	1-1-2	19
	0.20	130	6-7-8	29	1-2-4	22
	0.25	145	6-7-8	31	2-4-5	25
36"	0.05	85	2-2-4	15	1-1-1	--
	0.10	120	4-4-5	22	1-1-1	15
	0.15	145	5-5-6	24	1-1-2	21
	0.20	165	5-6-7	29	1-1-2	26
	0.25	180	6-7-8	31	2-2-4	29
48"	0.05	150	6-7-8	15	1-1-2	--
	0.10	200	7-8-10	23	1-1-2	15
	0.15	240	8-10-11	27	1-2-4	22
	0.20	280	10-11-12	30	2-4-5	23
	0.25	310	10-11-12	32	4-5-7	27
60"	0.05	170	4-5-6	15	1-1-2	--
	0.10	230	6-7-8	23	1-1-2	15
	0.15	280	7-8-10	27	1-2-4	24
	0.20	320	7-10-11	30	2-2-4	27
	0.25	360	8-10-12	32	2-4-6	31

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at iso-thermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

PERFORMANCE DATA - PLD 4-Slot 1-Way Linear (Wall Mount)

Maximum Flow Selection Table

Nominal Length	Neck Velocity (fpm)	600	700	800	900	1000	1100	1200
	Velocity Pressure (in. w.g.)	0.022	0.031	0.040	0.050	0.062	0.075	0.090
24"	Static Pressure (in. w.g.)	0.100	0.134	0.174	0.220	0.270	0.320	
	Total Pressure (in. w.g.)	0.122	0.165	0.214	0.271	0.332	0.395	
	Flow Rate (cfm)	209	244	279	314	349	384	
	Sound (NC)	19	21	24	29	33	37	
	Throw (ft.)	6-7-8	7-8-9	7-8-10	8-9-10	9-10-11	10-11-12	
36"	Static Pressure (in. w.g.)	0.071	0.096	0.124	0.154	0.189	0.230	0.274
	Total Pressure (in. w.g.)	0.093	0.127	0.164	0.205	0.251	0.305	0.363
	Flow Rate (cfm)	209	244	279	314	349	384	419
	Sound (NC)	19	24	26	28	31	34	36
	Throw (ft.)	4-5-6	5-6-7	5-7-8	6-7-8	7-8-9	7-8-10	7-8-10
48"	Static Pressure (in. w.g.)	0.055	0.076	0.097	0.123	0.150	0.179	0.217
	Total Pressure (in. w.g.)	0.077	0.106	0.137	0.173	0.213	0.254	0.307
	Flow Rate (cfm)	327	382	436	491	545	600	654
	Sound (NC)	16	21	25	29	32	33	36
	Throw (ft.)	7-9-11	8-10-12	8-11-13	8-11-13	8-11-13	10-13-15	11-14-16
60"	Static Pressure (in. w.g.)	0.071	0.094	0.122	0.153	0.193	0.232	0.271
	Total Pressure (in. w.g.)	0.093	0.125	0.162	0.204	0.255	0.307	0.361
	Flow Rate (cfm)	471	550	628	707	785	864	942
	Sound (NC)	20	26	29	32	35	38	40
	Throw (ft.)	9-12-14	11-13-15	11-13-16	11-13-16	12-14-18	14-17-20	15-20-21

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at isothermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.

Modulated Flow Selection Table

Nominal Length	Inlet Static Pressure in. w.g.	Maximum Flow Rate cfm	Maximum Flow Rate		25% Maximum Flow Rate	
			Throw ft.	Sound NC	Throw ft.	Sound NC
24"	0.05	150	4-4-5	15	1-1-1	15
	0.10	210	6-7-8	19	1-1-2	19
	0.15	260	7-8-10	22	1-2-4	22
	0.20	300	7-8-10	27	2-4-5	27
	0.25	335	8-10-11	31	2-4-5	31
36"	0.05	180	4-4-5	15	1-1-1	15
	0.10	250	5-6-7	25	1-1-2	19
	0.15	310	6-7-8	28	1-1-2	23
	0.20	360	7-8-10	32	1-2-4	28
	0.25	400	7-8-10	35	2-4-5	31
48"	0.05	315	7-8-11	15	1-1-2	15
	0.10	445	8-11-13	26	1-1-2	22
	0.15	545	8-11-13	32	2-2-4	27
	0.20	630	11-13-16	35	4-5-6	32
	0.25	700	12-14-17	39	5-6-7	35
60"	0.05	400	8-11-13	15	1-1-2	15
	0.10	570	11-13-16	27	1-1-2	22
	0.15	700	11-13-16	32	2-4-5	27
	0.20	800	12-14-18	36	5-6-7	32
	0.25	900	14-18-20	39	6-7-8	34

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 (RA2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. Air Flow is in cubic feet per minute, CFM.
3. All pressures are in inches of water.
4. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
5. Throw data is based on supply air and room air at isothermal condition.
6. The NC values, sound pressure level are based on a room absorption of 10 dB re 10⁻¹² Watts one diffuser.
7. Blanks "---" indicate an NC level below 15.