

PCD - Perforated Ceiling Diffusers

Series 7600 - Performance/Flush Face - Round Neck

Models 7600 (-1, -6), 7600 AF (-1, -6), 7600 AL (-6)

Listed Size	Neck Size	fpm Neck Velocity Pv	300 0.006	400 0.010	500 0.016	600 0.022	700 0.031	800 0.040	1000 0.062	1200 0.090	
12" x 12"	6"	CFM Pt	60 0.015	80 0.026	100 0.041	120 0.060	135 0.075	155 0.099	195 0.157	235 0.229	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-1-2 1-2-4 2-2-5 2-3-5 4-6-9 -	1-2-3 2-3-5 2-3-6 2-3-6 5-7-10 -	1-2-4 2-4-6 3-4-7 3-4-7 7-8-11 <15	2-2-5 3-4-6 3-4-7 3-5-8 7-9-12 19	2-3-5 3-5-7 4-5-8 4-6-8 8-9-13 23	2-3-6 4-5-7 4-6-8 4-6-9 8-10-14 26	3-4-6 5-6-8 5-6-9 6-7-10 9-11-16 30	3-5-7 5-6-9 6-7-10 6-8-11 10-12-17 35
	8"	CFM Pt	105 0.016	140 0.028	175 0.044	210 0.063	245 0.086	280 0.112	350 0.175	420 0.252	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-2-3 2-3-6 2-3-6 2-3-7 5-8-12 -	1-2-4 3-4-7 3-4-8 3-5-9 7-9-13 -	2-3-5 3-5-8 3-5-9 4-6-10 9-11-15 <15	2-3-6 4-6-9 4-6-9 5-7-11 10-12-16 19	2-4-7 4-7-9 5-7-10 5-8-11 10-12-18 24	3-4-8 5-7-10 6-8-11 6-9-12 11-13-19 27	3-5-8 6-8-11 7-9-12 8-10-14 12-15-21 31	4-6-9 7-9-12 8-9-13 9-11-15 13-16-23 37
	24" x 24"	6"	CFM Pt	60 0.015	80 0.026	100 0.041	120 0.060	135 0.075	155 0.099	195 0.157	235 0.229
			Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-1-2 1-2-5 2-3-5 2-3-5 4-6-9 -	1-2-3 2-3-6 2-3-6 2-4-7 6-8-11 -	1-2-4 3-4-6 3-4-7 3-5-8 7-8-12 <15	2-2-5 3-5-7 3-5-7 4-5-8 8-9-13 19	2-3-6 3-5-7 4-6-8 4-6-9 8-10-14 23	2-3-6 4-5-8 4-6-9 5-7-10 9-10-15 26	3-4-7 5-6-9 5-7-10 6-8-11 10-12-17 30
		8"	CFM Pt	105 0.016	140 0.028	175 0.044	210 0.063	245 0.086	280 0.112	350 0.175	420 0.252
			Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-2-3 2-3-6 2-3-7 2-4-7 5-8-12 -	1-2-4 3-4-7 3-4-8 3-5-9 7-10-14 -	2-3-5 3-5-8 4-5-9 4-6-10 9-11-16 <15	2-3-7 4-6-9 4-7-10 5-7-11 10-12-17 19	3-4-7 5-7-10 5-8-11 6-8-12 11-13-19 24	3-4-8 5-7-10 6-8-11 6-9-13 11-14-20 27	4-5-9 7-8-12 7-9-13 8-10-14 13-16-22 31
		10"	CFM Pt	165 0.017	220 0.030	275 0.047	325 0.066	380 0.090	435 0.118	545 0.186	655 0.268
			Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-2-4 2-4-8 3-4-8 3-4-9 7-10-15 -	2-3-5 3-5-9 4-6-10 4-6-11 9-12-18 -	2-3-7 4-6-10 5-7-11 5-7-13 11-14-20 <15	3-4-8 5-7-11 5-8-12 6-9-14 12-15-21 20	3-5-9 6-9-12 6-9-13 7-10-15 13-16-23 25	4-5-10 7-9-13 7-10-14 8-11-16 14-18-25 29	5-7-11 8-10-15 9-11-16 10-13-18 16-20-28 34
12"		CFM Pt	235 0.018	315 0.033	395 0.052	470 0.074	550 0.101	630 0.133	785 0.206	940 0.295	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	2-2-5 3-5-9 3-5-10 4-5-11 8-12-18 -	2-3-7 4-6-11 4-7-12 5-7-14 11-15-21 <15	3-4-8 5-8-12 5-8-14 6-9-15 14-17-24 15	3-5-10 6-9-13 7-10-15 7-11-17 15-18-26 22	4-6-11 7-10-15 8-11-16 8-12-18 16-20-28 27	4-7-12 8-11-16 9-12-17 9-14-19 17-21-30 31	5-8-13 10-12-17 11-14-19 12-15-21 19-24-33 36	7-10-15 11-13-19 12-15-21 14-17-23 21-26-36 42
14"		CFM Pt	320 0.017	430 0.031	535 0.048	640 0.068	750 0.094	855 0.122	1070 0.191	1285 0.276	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	2-3-6 3-5-11 4-6-11 4-6-12 9-14-21 -	3-4-8 5-7-13 5-8-14 6-8-16 13-17-25 <15	3-5-10 6-9-14 6-10-16 7-10-18 16-19-27 16	4-6-11 7-11-16 8-11-17 8-12-19 17-21-30 24	4-7-13 8-12-17 9-13-19 10-15-21 19-23-33 29	5-8-14 9-13-18 10-14-20 11-16-22 20-25-35 33	6-10-16 12-14-20 13-16-22 14-18-25 22-27-39 38	8-11-17 13-16-22 14-17-25 16-19-27 25-30-43 44
16"	CFM Pt	420 0.019	560 0.033	700 0.052	840 0.075	975 0.101	1115 0.132	1395 0.206	1675 0.297		
	Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	2-3-7 4-6-12 4-7-13 5-7-14 10-16-24 -	3-4-9 5-8-15 6-9-16 6-9-18 15-20-28 <15	4-5-11 7-10-16 7-11-18 8-12-20 18-22-31 17	4-7-13 8-12-18 9-13-20 9-14-22 20-24-34 25	5-8-15 9-14-19 10-15-21 11-17-24 21-26-37 30	6-9-16 11-15-21 12-16-23 13-18-26 23-28-40 34	7-11-18 13-16-23 15-18-26 16-20-29 26-31-44 39	9-13-20 15-18-25 16-20-28 18-22-31 28-34-49 46	

See Page PCD-139 for Series 7600 Performance Notes



PCD

PCD - Perforated Ceiling Diffusers

Series 7600 - Performance/Drop Face - Round Neck

Models 7600 (-8, -9), 7600-1 DF, 7600 AF (-8, -9), 7600 AL (-8)

Listed Size	Neck Size Ak	fpm Neck Velocity Pv	300 0.006	400 0.010	500 0.016	600 0.022	700 0.031	800 0.040	1000 0.062	1200 0.090	
12" x 12"	6"	CFM Pt	60 0.015	80 0.026	100 0.041	120 0.060	135 0.075	155 0.099	195 0.157	235 0.229	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-1-3 1-2-3 1-2-4 3-4-6 3-5-7 -	1-2-3 1-2-4 2-3-4 4-5-7 4-6-8 -	1-2-4 2-3-5 2-3-5 5-6-8 5-6-9 -	2-3-4 2-3-5 3-4-5 5-6-9 6-7-10 <15	2-3-4 2-4-6 3-4-6 5-7-9 6-8-11 17	2-3-4 3-4-6 3-4-6 6-7-10 7-8-11 20	3-3-5 3-5-7 4-5-7 6-8-11 7-9-13 26	3-4-5 4-5-7 4-5-7 7-9-12 8-10-14 32
	8"	CFM Pt	105 0.016	140 0.028	175 0.044	210 0.063	245 0.086	280 0.112	350 0.175	420 0.252	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-2-3 1-2-4 1-3-5 4-5-8 4-7-9 -	1-2-4 2-3-6 2-4-6 5-7-10 6-8-11 -	2-3-5 2-4-6 3-4-6 6-8-11 7-9-12 <15	2-3-5 3-4-7 4-5-7 7-8-12 8-9-13 15	3-4-6 3-5-8 4-5-8 7-9-13 8-10-14 19	3-4-6 4-6-8 5-6-8 8-10-13 9-11-15 22	4-5-7 5-6-9 5-6-9 9-11-15 10-12-17 28	4-5-7 6-7-10 6-7-10 10-12-17 11-13-19 34
	24" x 24"	6"	CFM Pt	60 0.015	80 0.026	100 0.041	120 0.060	135 0.075	155 0.099	195 0.157	235 0.229
			Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-1-3 1-2-3 1-2-4 3-4-7 4-5-7 -	1-2-3 1-2-5 2-3-5 4-5-8 5-6-9 -	1-2-4 2-3-5 2-4-5 5-6-8 6-7-10 -	2-3-4 2-3-6 3-4-6 5-7-9 6-7-11 <15	2-3-4 3-4-6 3-4-6 6-7-10 6-8-11 17	2-3-5 3-4-6 4-4-6 6-7-11 7-8-12 20	3-4-5 4-5-7 4-5-7 7-8-12 8-9-13 26
8"		CFM Pt	105 0.016	140 0.028	175 0.044	210 0.063	245 0.086	280 0.112	350 0.175	420 0.252	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-2-3 1-2-4 1-3-5 4-6-9 5-7-10 -	2-2-4 2-3-6 2-4-6 5-7-10 6-8-11 -	2-3-5 2-4-7 3-5-7 6-8-11 7-9-13 <15	2-3-5 3-4-7 4-5-7 7-9-12 8-10-14 15	3-4-6 3-5-8 4-6-8 8-9-13 9-11-15 19	3-4-6 4-6-9 5-6-9 8-10-14 9-11-16 22	4-5-7 5-7-10 5-7-10 9-11-16 10-13-18 28	4-5-8 6-7-10 6-7-10 10-12-17 11-14-20 34
10"		CFM Pt	165 0.017	220 0.030	275 0.047	325 0.066	380 0.090	435 0.118	545 0.186	655 0.268	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-2-4 1-3-6 2-4-7 5-7-11 6-9-12 -	2-3-5 2-4-7 3-5-8 6-9-13 8-10-14 -	2-4-6 3-5-8 4-6-8 8-10-14 9-11-16 <15	3-4-7 4-6-9 5-6-9 9-11-15 10-12-17 16	3-5-7 4-6-10 5-7-10 10-12-17 11-13-19 21	4-5-8 5-7-11 6-8-11 10-13-18 12-14-20 24	5-6-9 6-8-12 7-8-12 11-14-20 13-16-22 31	5-7-9 7-9-13 8-9-13 13-15-22 14-17-25 38
12"		CFM Pt	235 0.018	315 0.033	395 0.052	470 0.074	550 0.101	630 0.133	785 0.206	940 0.295	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	1-3-5 1-3-7 2-4-8 6-8-13 7-10-15 -	2-3-7 3-4-9 4-6-9 8-11-15 9-12-17 -	3-4-7 4-6-10 5-7-10 9-12-17 11-14-19 <15	3-5-8 4-7-11 6-8-11 11-13-18 12-15-21 17	4-6-9 5-8-12 7-8-12 11-14-20 13-16-23 22	5-7-9 6-9-13 7-9-13 14-18-25 15-17-24 25	6-7-10 7-10-14 8-10-14 14-17-24 16-19-27 32	7-8-11 9-11-16 9-11-16 15-18-26 17-21-29 40
14"		CFM Pt	320 0.017	430 0.031	535 0.048	640 0.068	750 0.094	855 0.122	1070 0.191	1285 0.276	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	2-3-6 2-4-8 2-5-9 7-10-15 8-12-17 -	3-4-8 3-5-10 4-7-11 9-12-18 11-14-20 -	3-5-9 4-6-12 5-8-12 11-14-20 13-16-22 <15	4-6-9 5-8-13 7-9-13 12-15-21 14-17-24 18	5-7-10 6-9-14 8-10-14 13-16-23 15-19-26 23	5-8-11 7-10-15 9-11-15 14-18-25 16-20-28 27	7-9-12 9-12-17 10-12-17 16-20-28 18-22-31 34	8-9-13 10-13-18 11-13-18 18-22-30 20-24-34 43
16"		CFM Pt	420 0.019	560 0.033	700 0.052	840 0.075	975 0.101	1115 0.132	1395 0.206	1675 0.297	
		Throw	4*-Way 4-Way 3-Way 2-Way 1-Way NC	2-3-7 2-4-9 3-6-10 8-11-17 9-14-20 -	3-5-9 3-6-12 5-7-12 10-14-20 12-16-23 -	4-6-10 5-7-13 6-9-13 13-16-22 15-18-25 <15	5-7-11 6-9-15 7-10-15 14-17-25 16-20-28 20	5-8-12 7-10-16 9-11-16 17-21-30 17-21-30 24	6-9-12 8-12-17 10-12-17 16-20-28 19-23-32 29	8-10-14 10-13-19 11-13-19 18-22-32 21-25-36 36	9-11-15 12-15-21 12-15-21 20-25-35 23-28-39 45

See Page PCD-139 for Series 7600 Performance Notes

Perforated Ceiling Diffusers



PCD

Series 7600R Round Neck

All models for Series 7600R

Nominal Neck Diameter	fpm Inlet Velocity Ps	300 -.01	400 -.02	500 -.03	600 -.04	700 -.05	800 -.06	900 -.08	1000 -.10
6	CFM	60	80	100	115	135	155	175	195
8	CFM	105	140	175	210	245	280	315	350
10	CFM	165	220	270	325	380	435	490	545
12	CFM	235	315	390	470	550	630	705	785
14	CFM	320	425	535	640	750	855	930	1070
16	CFM	420	560	700	835	975	1115	1255	1395
18	CFM	520	700	870	1045	1220	1395	1570	1740

Performance Notes:

All data are tested in accordance with ANSI/ASHRAE 70-1991

Definition of Units:

- CFM** - Cubic feet per minute (air)
- fpm** - Velocity of air stream in feet per minute
- Pv** - Velocity pressure (inches of water column)
- Pt** - Total pressure (inches of water column)
- Ps** - Static pressure = Pt - Pv (inches of water column)
- Throw*** - Non-isothermal horizontal throw (supply air temperature 15°F colder than average room air temperature) values are for 150 fpm - 100 fpm - 50 fpm velocities
- Throw** - Isothermal horizontal throw (supply air temperature the same as average room air temperature) values are for 150 fpm - 100 fpm - 50 fpm velocities
- NC** - Noise criterion, sound pressure level. NC ratings are based on sound power level (Lw) RE: 10E-12 watts minus a 10 dB room attenuation in all octave bands

Series 7600 - Specification

Supply - Perforated Diffuser - Adjustable Neck Mounted Curved Blade Pattern Controllers - Round Neck/Series 7600

Steel	Aluminum Face - Steel Backpan	Aluminum
7600-1 - Surface Mounted	7600-1 AF - Surface Mounted	7600-6 AL - T-bar Lay-in
7600-1 DF - Surface Mounted-Dropped Face	7600-6 AF - T-bar Lay-in	7600-6 AL - Tegalur T-bar
7600-6 - T-bar Lay-in	7600-8 AF - Tegalur T-bar	
7600-8 - Tegalur T-bar	7600-9 AF - Donn Fineline	
7600-9 - Donn Fineline		

Air Outlets shall be steel model 7600 or aluminum face, steel backpan model 7600-AF or all aluminum model 7600-AL manufactured by METALAIR.

Units shall consist of a 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. The perforated face shall be removable allowing access to aluminum curved blade pattern with tension spring clips. Pattern controller blades shall be individually adjustable and allow the discharge pattern to be adjustable from vertical to horizontal. Pattern controller blades shall pivot in adjustable from vertical to horizontal. Pattern controller blades shall pivot in friction mounting retainers. Retainers shall hold the deflector blade position throughout the specified operating range of the device. Metal friction wires are not acceptable.

Outlets shall be available in 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns.

Return - Perforated Diffuser - Round Neck - 12" x 12"/24" x 24" Module/Series 7600

Steel	Aluminum Face - Steel Backpan	Aluminum
7600R-1 - Surface Mounted	7600R-1 AF - Surface Mounted	7600R-6 AL - T-bar Lay-in
7600R-1 DF - Surface Mounted-Dropped Face	7600R-6 AF - T-bar Lay-in	7600R-6 AL - Tegalur T-bar
7600R-6 - T-bar Lay-in	7600R-8 AF - Tegalur T-bar	
7600R-8 - Tegalur T-bar	7600R-9 AF - Donn Fineline	
7600R-9 - Donn Fineline		

Air Inlets shall be steel model 7600R or aluminum face, steel backpan model 7600R-AF or all aluminum model 7600R-AL manufactured by METALAIR.

Units shall consist of aluminum 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. Units shall be designed for use in ducted return or exhaust applications.

The perforated face shall be hinged allowing access to the inside of the packpan. Face shall be secured in place with tension spring clips.

The units shall be the size and quality as outline in the plans and specifications.

Units shall be designed to integrate into the specified ceiling systems.

