

# PDS/PDR

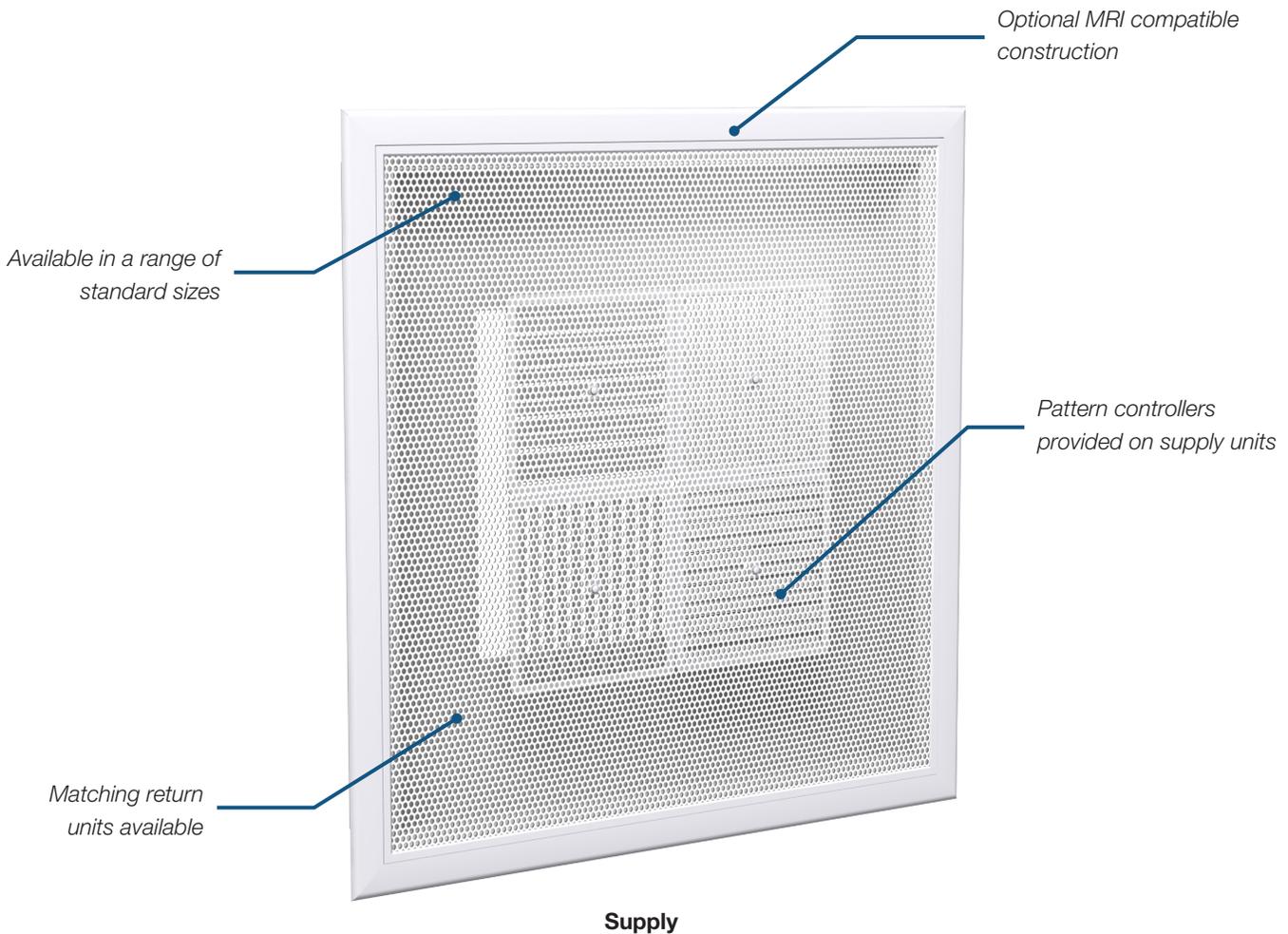
ARCHITECTURAL PERFORATED DIFFUSER



# PDS/PDR

## Architectural Perforated Diffuser

The architectural perforated face diffuser features an extruded aluminum border and mounting frame that match seamlessly for a flush mount that blends with most ceiling tiles. This diffuser makes use of a hinged, removable perforated faceplate with quick-release spring latches for easy access to pattern controllers, dampers, and duct work. With a diffuser height of only 3 in. the architectural perforated diffusers require minimal ceiling plenum height.



### SUPPLY APPLICATION

- + The supply model provides efficient, draftless air distribution for most ceiling types.
- + Rotatable louvered air pattern deflectors are located on the perforated face, allowing for field adjustment to suit desired conditions.
- + For enhanced aesthetics, the pattern deflectors and backpan are finished in black to make them virtually invisible.

### RETURN APPLICATION

- + The matching returns for the premium perforated supply ceiling diffusers, offer the same construction features and are designed for ducted or plenum return applications.



*Return*

### TYPICAL APPLICATIONS

Architectural perforated ceiling diffusers combine exceptional performance and the desirable architectural appeal of extruded aluminum construction for highly efficient heating, cooling, and air ventilation applications.

### CONSTRUCTION

- + Application
  - Supply (PDS)
  - Return (PDR)
- + Available sizes
  - 12 in. x 12 in.
  - 16 in. x 16 in.
  - 20 in. x 20 in.
  - 24 in. x 24 in.
  - 12 in. x 24 in.
  - 12 in. x 36 in.
  - 12 in. x 48 in.
  - 24 in. x 36 in.
  - 24 in. x 48 in.
- + Options
  - MRI compatible construction
  - Complete range of available accessory dampers, equalizing grids etc.

# PERFORMANCE DATA

## PDS – 12 in. x 12 in. Module

Inlet Size			.030	.050	.078	.112	.152	.196	.310	.440	.600
5 Ø	Total Pressure (in. w.g.)		.030	.050	.078	.112	.152	.196	.310	.440	.600
	Flow Rate (cfm)		75	100	125	150	175	200	250	300	350
	Sound (NC)		-	25	30	35	39	43	49	54	58
	Throw (ft.)	4 Way	2-2-5	2-4-6	4-5-8	4-6-10	5-7-12	5-8-13	6-10-16	7-12-19	10-14-23
		3 Way	2-4-5	2-5-7	4-5-8	5-6-10	5-7-12	6-8-14	7-11-17	8-13-19	10-14-24
2 Way		2-4-6	4-5-8	4-6-10	5-7-12	6-8-14	6-10-16	8-12-19	10-14-23	11-17-28	
1 Way		4-5-7	4-6-10	5-7-12	6-10-14	7-11-17	8-12-19	10-16-24	12-18-29	13-20-34	
6 Ø	Total Pressure (in. w.g.)		.018	.031	.048	.069	.094	.121	.192	.272	.372
	Flow Rate (cfm)		75	100	125	150	175	200	250	300	350
	Sound (NC)		-	18	23	28	32	36	42	47	51
	Throw (ft.)	4 Way	2-2-4	2-3-6	3-4-8	3-6-9	4-7-11	4-8-12	6-9-14	7-11-18	9-13-21
		3 Way	2-3-4	2-4-7	3-4-8	4-6-9	4-7-11	6-8-13	7-10-15	8-12-18	9-13-22
2 Way		2-3-6	3-4-8	3-6-9	4-7-11	6-8-13	6-9-14	8-11-18	9-13-21	10-15-25	
1 Way		3-4-7	3-6-9	4-7-11	6-9-13	7-10-15	8-11-18	9-14-22	11-17-26	12-19-31	
6 x 6	Total Pressure (in. w.g.)		.015	.025	.039	.056	.076	.098	.155	.220	.300
	Flow Rate (cfm)		75	100	125	150	175	200	250	300	350
	Sound (NC)		-	-	19	24	28	32	38	43	47
	Throw (ft.)	4 Way	2-2-4	2-3-5	3-4-7	3-5-8	4-6-10	4-7-11	5-8-13	6-10-16	8-12-19
		3 Way	2-3-4	2-4-6	3-4-7	4-5-8	4-6-10	5-7-12	6-9-14	7-11-16	8-12-20
2 Way		2-3-5	3-4-7	3-5-8	4-6-10	5-7-12	5-8-13	7-10-16	8-12-19	9-14-23	
1 Way		3-4-6	3-5-8	4-6-10	5-8-12	6-9-14	7-10-16	8-13-20	10-15-24	11-17-28	
7 Ø	Total Pressure (in. w.g.)		.014	.024	.037	.053	.073	.094	.149	.211	.288
	Flow Rate (cfm)		75	100	125	150	175	200	250	300	350
	Sound (NC)		-	-	17	22	26	30	36	41	45
	Throw (ft.)	4 Way	2-2-4	2-3-5	3-4-7	3-5-8	4-6-10	4-7-11	5-8-13	6-10-16	8-12-19
		3 Way	2-3-4	2-4-6	3-4-7	4-5-8	4-6-10	5-7-12	6-9-14	7-11-16	8-12-20
2 Way		2-3-5	3-4-7	3-5-8	4-6-10	5-7-12	5-8-13	7-10-16	8-12-19	9-14-23	
1 Way		3-4-6	3-5-8	4-6-10	5-8-12	6-9-14	7-10-16	8-13-20	10-15-24	11-17-28	

## PDS – 12 in. x 24 in., 36 in., 48 in. Module

Inlet Size			.027	.045	.071	.102	.139	.179	.283	.402	.549
5 Ø	Total Pressure (in. w.g.)		.027	.045	.071	.102	.139	.179	.283	.402	.549
	Flow Rate (cfm)		75	100	125	150	175	200	250	300	350
	Sound (NC)		-	25	30	35	39	43	49	54	58
	Throw (ft.)	4 Way	2-2-5	2-2-6	4-5-8	4-6-10	5-7-12	5-8-13	6-10-16	7-12-19	10-14-23
		3 Way	2-4-5	2-5-7	4-5-8	5-6-10	5-7-12	6-8-14	7-11-17	8-13-19	10-14-24
2 Way		2-4-6	4-5-8	4-6-10	5-7-12	6-8-14	6-10-16	8-12-19	10-14-23	11-17-28	
1 Way		4-5-7	4-6-10	5-7-12	6-10-14	7-11-17	8-12-19	10-16-24	12-18-29	13-20-34	
6 Ø	Total Pressure (in. w.g.)		.014	.024	.037	.054	.073	.095	.150	.213	.291
	Flow Rate (cfm)		75	100	125	150	175	200	250	300	350
	Sound (NC)		-	18	23	28	32	36	42	47	51
	Throw (ft.)	4 Way	2-2-4	2-3-6	3-4-8	3-6-9	4-7-11	4-8-12	6-9-14	7-11-18	9-13-21
		3 Way	2-3-4	2-4-7	3-4-8	4-6-9	4-7-11	6-8-13	7-10-15	8-12-18	9-13-22
2 Way		2-3-6	3-4-8	3-6-9	4-7-11	6-8-13	6-9-14	8-11-18	9-13-21	10-15-25	
1 Way		3-4-7	3-6-9	4-7-11	6-9-13	7-10-15	8-11-18	9-14-22	11-17-26	12-19-31	
6 x 6	Total Pressure (in. w.g.)		.010	.016	.025	.036	.049	.064	.101	.143	.195
	Flow Rate (cfm)		75	100	125	150	175	200	250	300	350
	Sound (NC)		-	-	19	24	28	32	38	43	47
	Throw (ft.)	4 Way	2-2-4	2-3-5	3-4-7	3-5-8	4-6-10	4-7-11	5-8-13	6-10-16	8-12-19
		3 Way	2-3-4	2-4-6	3-4-7	4-5-8	4-6-10	5-7-12	6-9-14	7-11-16	8-12-20
2 Way		2-3-5	3-4-7	3-5-8	4-6-10	5-7-12	5-8-13	7-10-16	8-12-19	9-14-23	
1 Way		3-4-6	3-5-8	4-6-10	5-8-12	6-9-14	7-10-16	8-13-20	10-15-24	11-17-28	
18 x 6	Total Pressure (in. w.g.)		.035	.059	.095	.135	.185	.240	.370	.530	.730
	Flow Rate (cfm)		225	300	375	450	525	600	750	900	1050
	Sound (NC)		17	25	31	36	40	44	50	55	60
	Throw (ft.)	4 Way	4-7-9	6-10-16	8-12-20	10-15-24	11-17-28	13-19-32	16-24-39	19-29-46	22-34-53
		3 Way	5-8-12	7-10-16	8-13-20	10-15-24	12-18-28	13-20-32	17-25-41	20-30-49	23-35-56
2 Way		5-8-13	7-11-18	9-13-22	11-16-27	13-19-32	15-22-35	19-29-44	21-32-51	25-37-60	
1 Way		8-12-19	11-16-26	13-19-33	16-23-39	19-27-46	21-31-51	26-39-62	31-47-74	37-55-89	
7 Ø	Total Pressure (in. w.g.)		.015	.025	.039	.056	.076	.098	.155	.220	.300
	Flow Rate (cfm)		75	100	125	150	175	200	250	300	350
	Sound (NC)		-	-	17	22	28	30	36	41	45
	Throw (ft.)	4 Way	2-2-4	2-3-5	3-4-7	3-5-8	4-6-10	4-7-11	5-8-13	6-10-16	8-12-19
		3 Way	2-3-4	2-4-6	3-4-7	4-5-8	4-6-10	5-7-12	6-9-14	7-11-16	8-12-20
2 Way		2-3-5	3-4-7	3-5-8	4-6-10	5-7-12	5-8-13	7-10-16	8-12-19	9-14-23	
1 Way		3-4-6	3-5-8	4-6-10	5-8-12	6-9-14	7-10-16	8-13-20	10-15-24	11-17-28	

For performance notes, see end of section.

# PERFORMANCE DATA

## PDS – 16 in. x 16 in. Module

Inlet Size											
5 Ø	Total Pressure (in. w.g.)	.028	.048	.075	.107	.146	.188	.297	.422	.576	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	25	30	35	39	43	49	54	58	
	Throw (ft.)	4 Way	2-2-4	2-3-5	3-4-7	3-5-8	4-6-10	4-7-11	5-8-13	6-10-16	8-12-19
		3 Way	2-3-4	2-4-6	3-4-7	4-5-8	4-6-10	5-7-12	6-9-14	7-11-16	8-12-20
2 Way		2-3-5	3-4-7	3-5-8	4-6-10	5-7-12	5-8-13	7-10-16	8-12-19	9-14-23	
1 Way		3-4-6	3-5-8	4-6-10	5-8-12	6-9-14	7-10-16	8-13-20	10-15-24	11-17-28	
6 Ø	Total Pressure (in. w.g.)	.016	.026	.041	.059	.079	.103	.163	.231	.315	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	18	23	28	32	36	42	47	51	
	Throw (ft.)	4 Way	2-2-4	2-3-5	3-4-7	3-5-7	4-6-9	4-7-10	5-7-12	6-9-15	7-11-18
		3 Way	2-3-4	2-4-6	3-4-7	4-5-7	4-6-9	5-7-11	6-8-13	7-10-15	7-11-19
2 Way		2-3-5	3-4-7	3-5-7	4-6-9	5-7-11	5-7-12	7-9-15	7-11-18	8-13-21	
1 Way		3-4-6	3-5-7	4-6-9	5-7-11	6-8-13	7-9-15	7-12-19	9-14-22	10-16-26	
6 x 6	Total Pressure (in. w.g.)	.011	.019	.029	.042	.057	.073	.116	.165	.225	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	-	19	24	28	32	38	43	47	
	Throw (ft.)	4 Way	2-2-3	2-3-4	3-3-6	3-4-7	3-5-9	3-6-10	4-7-11	5-9-14	7-10-17
		3 Way	2-3-3	2-3-5	3-3-6	3-4-7	3-5-9	4-6-10	5-8-12	6-10-14	7-10-17
2 Way		2-3-4	3-3-5	3-4-7	3-5-9	4-6-10	4-7-11	6-9-14	7-10-17	8-12-20	
1 Way		3-3-5	3-4-7	3-5-8	4-7-10	5-8-12	6-9-14	7-11-17	9-13-21	10-15-24	
7 Ø	Total Pressure (in. w.g.)	.010	.017	.026	.038	.051	.066	.105	.149	.204	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	-	17	22	26	30	36	41	45	
	Throw (ft.)	4 Way	2-2-3	2-3-4	3-3-6	3-4-7	3-5-9	3-6-9	4-7-11	5-9-14	7-10-16
		3 Way	2-3-3	2-3-5	3-3-6	3-4-7	3-5-9	4-6-10	5-8-12	6-9-14	7-10-17
2 Way		2-3-4	3-3-6	3-4-7	3-5-9	4-6-10	4-7-11	6-9-14	7-10-16	8-12-20	
1 Way		3-3-5	3-4-7	3-5-9	4-7-10	5-8-12	6-9-14	7-11-17	9-13-20	9-14-24	
8 Ø	Total Pressure (in. w.g.)	.023	.038	.059	.085	.115	.149	.235	.337	.462	
	Flow Rate (cfm)	135	180	220	265	310	355	445	535	620	
	Sound (NC)	-	22	28	34	38	41	47	53	57	
	Throw (ft.)	4 Way	2-3-6	3-4-8	4-7-10	4-8-12	6-9-14	7-10-15	8-12-20	10-14-23	11-17-28
		3 Way	2-3-7	3-6-8	4-7-11	6-8-13	7-9-15	7-10-17	9-13-21	10-15-25	11-18-29
2 Way		2-4-7	4-6-10	4-8-12	6-9-14	7-10-17	8-12-19	10-14-23	12-18-29	13-21-33	
1 Way		3-6-9	4-8-12	7-9-15	8-10-18	9-13-21	10-14-23	12-19-30	14-22-35	17-25-41	
8 x 8	Total Pressure (in. w.g.)	.017	.028	.044	.063	.085	.110	.173	.248	.340	
	Flow Rate (cfm)	135	180	220	265	310	355	445	535	620	
	Sound (NC)	-	17	23	29	33	36	42	48	52	
	Throw (ft.)	4 Way	2-3-5	3-4-7	4-6-9	4-7-11	5-8-13	6-9-14	7-11-18	9-13-21	10-15-25
		3 Way	2-3-6	3-5-7	4-6-10	5-7-12	6-8-14	6-9-15	8-12-19	9-14-23	10-16-26
2 Way		3-4-6	4-5-9	4-7-11	5-8-13	6-9-15	7-11-17	9-13-21	11-16-26	12-19-30	
1 Way		3-5-8	4-7-11	6-8-14	7-10-16	8-12-19	9-13-21	11-17-27	13-20-32	15-23-37	
10 Ø	Total Pressure (in. w.g.)	.031	.052	.083	.119	.161	.207	.328	.467	.640	
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975	
	Sound (NC)	17	25	31	36	40	44	50	55	60	
	Throw (ft.)	4 Way	4-5-8	5-6-11	6-8-13	7-10-16	7-12-18	8-13-22	11-17-26	13-19-31	16-23-36
		3 Way	4-5-8	5-7-12	6-8-14	7-11-17	8-12-16	10-14-18	12-18-29	14-22-34	17-24-40
2 Way		4-6-10	5-8-13	6-10-16	8-12-19	10-14-23	11-16-25	13-20-32	16-24-45	18-28-44	
1 Way		5-7-12	7-10-17	8-12-20	10-14-24	12-18-29	13-20-32	17-25-41	20-30-48	23-35-56	

For performance notes, see end of section.

# PERFORMANCE DATA

## PDS – 20 in. x 20 in. Module

Inlet Size												
5 0	Total Pressure (in. w.g.)	.028	.047	.073	.105	.142	.184	.291	.414	.564		
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350		
	Sound (NC)	-	25	30	35	39	43	49	54	58		
	Throw (ft.)	4 Way	2-2-4	2-3-5	3-4-6	3-5-7	4-5-9	4-6-10	5-7-12	5-9-15	7-11-17	
		3 Way	2-3-4	2-4-5	3-4-6	4-5-7	4-5-9	5-6-11	5-8-13	6-10-15	7-11-18	
2 Way		2-3-5	3-4-6	3-5-7	4-5-9	5-6-11	5-7-12	6-9-15	7-11-17	8-13-21		
1 Way		3-4-5	3-5-7	4-5-9	5-7-11	5-8-13	6-9-15	7-12-18	9-14-22	10-15-25		
6 0	Total Pressure (in. w.g.)	.015	.025	.039	.057	.077	.099	.157	.222	.303		
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350		
	Sound (NC)	-	18	23	28	32	36	42	47	51		
	Throw (ft.)	4 Way	2-2-3	2-3-4	3-3-6	3-4-7	3-5-8	3-6-9	4-7-11	5-8-13	7-10-16	
		3 Way	2-3-3	2-3-5	3-3-6	3-4-7	3-5-8	4-6-10	5-7-11	6-9-13	7-10-16	
2 Way		2-3-4	3-3-6	3-4-7	3-5-8	4-6-10	4-7-11	6-8-13	7-10-16	7-11-19		
1 Way		3-3-5	3-4-7	3-5-8	4-7-9	5-7-11	6-8-13	7-11-16	8-12-20	9-14-23		
6 x 6	Total Pressure (in. w.g.)	.010	.017	.027	.039	.053	.086	.108	.154	.210		
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350		
	Sound (NC)	-	17	23	29	33	36	42	48	52		
	Throw (ft.)	4 Way	2-2-3	2-2-4	2-3-5	2-4-6	3-5-8	3-5-8	4-6-10	4-8-12	6-9-14	
		3 Way	2-2-3	2-3-5	2-3-5	3-4-6	3-5-8	4-5-9	4-7-11	5-8-12	6-9-15	
2 Way		2-2-4	2-3-5	2-4-6	3-5-8	4-5-9	4-6-10	5-8-12	6-9-14	7-11-17		
1 Way		2-3-5	2-4-6	3-5-8	4-6-9	5-7-11	5-8-12	6-10-15	8-11-18	8-13-21		
7 0	Total Pressure (in. w.g.)	.009	.015	.024	.035	.047	.062	.097	.138	.189		
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350		
	Sound (NC)	-	-	17	22	26	30	36	41	45		
	Throw (ft.)	4 Way	2-2-3	2-2-4	2-3-5	2-4-6	3-4-8	3-5-8	4-6-10	5-8-12	6-9-14	
		3 Way	2-2-3	2-3-5	2-3-5	3-4-6	3-4-8	4-5-9	5-7-11	5-8-12	8-9-15	
2 Way		2-2-4	2-3-5	2-4-6	3-4-8	4-5-9	4-6-10	5-8-12	6-9-14	7-11-17		
1 Way		2-3-5	2-4-6	3-4-8	4-6-9	5-7-11	5-8-12	6-10-15	8-11-18	8-13-21		
8 0	Total Pressure (in. w.g.)	.020	.033	.052	.075	.102	.132	.207	.297	.408		
	Flow Rate (cfm)	135	180	220	265	310	355	445	535	620		
	Sound (NC)	-	22	28	34	38	41	47	53	57		
	Throw (ft.)	4 Way	2-3-5	3-4-7	4-6-9	4-7-10	5-8-12	6-9-13	7-10-17	9-12-20	10-14-24	
		3 Way	2-3-6	3-5-7	4-6-10	5-7-11	6-8-13	6-9-14	8-11-18	9-13-22	10-15-25	
2 Way		3-4-6	4-5-9	4-7-10	5-8-12	6-9-14	7-10-16	9-12-20	10-15-25	11-18-29		
1 Way		3-5-8	4-7-10	6-8-13	7-10-15	8-11-18	9-12-20	10-16-26	12-19-30	14-22-35		
8 x 8	Total Pressure (in. w.g.)	.014	.024	.037	.053	.072	.093	.147	.210	.289		
	Flow Rate (cfm)	135	180	220	265	310	355	445	535	620		
	Sound (NC)	-	17	23	29	33	36	42	48	52		
	Throw (ft.)	4 Way	2-3-5	3-4-6	4-5-8	4-6-10	5-7-12	5-8-13	6-10-16	8-12-19	9-14-23	
		3 Way	2-3-5	3-5-6	4-5-9	5-6-11	5-7-13	5-8-14	7-11-17	8-13-21	9-14-23	
2 Way		3-4-5	4-5-8	4-6-10	5-7-12	5-8-14	6-10-15	8-12-19	10-14-23	11-17-27		
1 Way		3-5-7	4-6-10	5-7-13	6-9-14	7-11-17	8-12-19	10-15-26	12-18-29	14-21-33		
10 0	Total Pressure (in. w.g.)	.025	.042	.067	.097	.131	.169	.267	.380	.520		
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975		
	Sound (NC)	17	25	31	36	40	44	50	55	60		
	Throw ((ft.)(ft.))	4 Way	3-4-8	4-6-10	6-8-12	7-9-14	7-11-17	8-13-20	10-15-24	12-18-29	14-21-33	
		3 Way	3-4-8	4-7-11	6-8-13	7-10-15	8-11-19	9-13-21	11-17-26	13-20-31	15-22-36	
2 Way		3-6-9	4-8-12	6-9-14	8-11-18	9-13-21	10-14-23	12-19-30	14-22-35	17-25-41		
1 Way		4-7-11	7-9-15	8-11-19	9-13-22	11-17-26	12-19-30	15-23-37	19-18-44	21-32-52		
10 x 10	Total Pressure (in. w.g.)	.018	.030	.048	.069	.093	.120	.190	.270	.370		
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975		
	Sound (NC)	-	21	27	32	36	40	46	51	56		
	Throw (ft.)	4 Way	3-4-7	4-5-9	5-7-11	6-8-13	6-10-15	7-11-18	9-14-22	11-16-26	13-19-30	
		3 Way	3-4-7	4-6-10	5-7-12	6-9-14	7-10-17	8-12-19	10-15-24	12-18-28	14-20-33	
2 Way		3-5-8	4-7-11	5-8-13	7-10-16	8-12-19	9-13-21	11-17-27	13-20-32	15-23-37		
1 Way		4-6-10	6-8-14	7-10-17	8-12-20	10-15-24	11-17-27	14-21-34	17-25-40	19-29-47		
12 0	Total Pressure (in. w.g.)	.015	.025	.040	.057	.078	.101	.159	.226	.310		
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975		
	Sound (NC)	-	18	24	29	33	37	43	48	53		
	Throw (ft.)	4 Way	3-4-7	4-5-9	5-7-11	6-8-13	6-10-15	7-11-18	9-14-22	11-16-26	13-19-30	
		3 Way	3-4-7	4-6-10	5-7-12	6-9-14	7-10-17	8-12-19	10-15-24	12-18-28	14-20-33	
2 Way		3-5-8	4-7-11	5-8-113	7-10-16	8-12-19	9-13-21	11-17-27	13-20-32	15-23-37		
1 Way		4-6-10	6-8-14	7-10-17	8-12-20	10-15-24	11-17-27	14-21-34	17-25-40	19-29-47		

For performance notes, see end of section.

# PERFORMANCE DATA

## PDS – 24 in. x 24 in. Module

Inlet Size											
5 0	Total Pressure (in. w.g.)	.027	.045	.071	.102	.138	.178	.282	.400	.546	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	25	30	35	39	43	49	54	58	
	Throw (ft.)	4 Way	2-2-3	2-3-4	3-3-6	3-4-7	3-5-8	3-6-9	4-7-11	5-8-13	7-10-16
		3 Way	2-3-3	2-3-5	3-3-6	3-4-7	3-5-8	4-6-10	5-8-12	6-9-13	7-10-17
2 Way		2-3-4	3-3-6	3-4-7	3-5-8	4-6-10	4-7-11	6-8-13	7-10-16	8-12-19	
1 Way		3-3-5	3-4-7	3-5-8	4-7-10	5-8-12	6-8-13	7-11-17	8-13-20	9-14-24	
6 0	Total Pressure (in. w.g.)	.014	.024	.037	.053	.073	.094	.148	.211	.288	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	18	23	28	32	36	42	47	51	
	Throw (ft.)	4 Way	1-1-3	1-2-4	2-3-5	2-4-6	3-4-7	3-5-8	4-6-9	4-7-12	6-9-14
		3 Way	1-2-3	1-3-4	2-3-5	3-4-6	3-4-7	4-5-9	4-7-10	5-8-12	6-9-15
2 Way		1-2-4	2-3-5	2-4-6	3-4-7	4-5-9	4-6-9	5-7-12	6-9-14	7-10-17	
1 Way		2-3-4	2-4-6	3-4-7	4-6-9	4-7-10	5-7-12	6-9-15	7-11-18	8-12-20	
6 x 6	Total Pressure (in. w.g.)	.009	.016	.025	.036	.049	.063	.101	.143	.195	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	-	19	24	28	32	38	43	47	
	Throw (ft.)	4 Way	1-1-3	1-2-4	2-3-5	2-4-6	3-4-7	3-5-8	4-6-9	4-7-11	6-8-13
		3 Way	1-2-3	1-3-4	2-3-5	3-4-6	3-4-7	4-5-8	4-6-10	5-8-11	6-8-14
2 Way		1-2-4	2-3-5	3-4-7	4-5-8	4-5-8	4-6-9	5-7-11	6-8-13	6-10-16	
1 Way		2-3-4	2-4-6	3-4-7	4-6-8	4-6-10	5-7-11	6-9-14	7-11-17	8-12-20	
7 0	Total Pressure (in. w.g.)	.009	.015	.024	.035	.047	.062	.097	.138	.189	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	-	17	22	26	30	36	41	45	
	Throw (ft.)	4 Way	1-1-3	1-2-3	2-3-5	2-3-6	3-4-7	3-5-8	3-6-9	4-7-11	6-8-13
		3 Way	1-2-3	1-3-4	2-3-5	3-3-6	3-4-7	3-5-8	4-6-10	5-8-11	6-8-14
2 Way		1-2-3	2-3-5	2-3-6	3-4-7	3-5-8	3-6-9	4-7-11	6-8-13	6-10-16	
1 Way		2-3-4	2-3-6	3-4-7	3-6-8	4-6-10	5-7-11	6-9-14	7-10-17	8-12-19	
8 0	Total Pressure (in. w.g.)	.018	.031	.048	.069	.094	.122	.192	.275	.377	
	Flow Rate (cfm)	135	180	220	265	310	355	445	535	620	
	Sound (NC)	-	22	28	34	38	41	47	53	57	
	Throw (ft.)	4 Way	2-2-4	3-3-6	3-5-8	3-6-9	4-7-11	5-8-12	6-9-15	8-11-18	9-13-21
		3 Way	2-3-5	3-4-6	3-5-9	4-6-10	5-7-12	5-8-15	7-10-16	8-12-20	9-14-22
2 Way		3-3-5	3-4-8	3-6-9	4-7-11	5-8-13	6-9-15	8-11-18	9-14-22	10-16-26	
1 Way		3-4-7	3-6-9	5-7-12	6-9-14	7-10-16	8-11-18	9-15-23	10-17-28	13-20-32	
8 x 8	Total Pressure (in. w.g.)	.013	.022	.034	.049	.067	.087	.137	.196	.268	
	Flow Rate (cfm)	135	180	220	265	310	355	445	535	620	
	Sound (NC)	-	17	23	29	33	36	42	48	52	
	Throw (ft.)	4 Way	2-2-4	2-3-6	3-5-7	3-6-9	4-7-11	5-7-11	6-9-15	7-11-17	8-12-20
		3 Way	2-2-5	2-4-6	3-5-8	4-6-10	5-7-11	5-7-12	7-10-16	7-11-19	8-13-21
2 Way		2-3-5	3-4-7	3-6-9	4-7-11	5-7-12	6-9-14	7-11-17	9-13-21	10-16-25	
1 Way		2-4-7	3-6-9	5-7-11	6-8-13	7-9-16	7-11-17	9-14-22	11-16-26	12-19-30	
10 0	Total Pressure (in. w.g.)	.023	.038	.061	.087	.118	.152	.241	.342	.470	
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975	
	Sound (NC)	17	25	31	36	40	44	50	55	60	
	Throw (ft.)	4 Way	3-4-7	4-5-9	5-7-11	6-8-13	6-10-15	7-11-17	9-14-21	11-16-25	13-18-29
		3 Way	3-4-7	4-6-10	5-7-12	6-9-14	7-10-16	8-12-18	10-15-23	12-17-27	14-19-32
2 Way		3-5-8	4-7-11	5-8-13	7-10-16	8-12-18	9-13-20	11-16-26	13-19-31	15-22-36	
1 Way		4-6-10	6-8-14	7-10-16	8-12-19	10-15-23	11-16-26	14-20-33	16-24-39	18-28-46	
10 x 10	Total Pressure (in. w.g.)	.016	.026	.042	.061	.082	.106	.169	.240	.329	
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975	
	Sound (NC)	-	21	27	32	36	40	46	51	56	
	Throw (ft.)	4 Way	3-4-6	4-5-8	5-6-10	5-7-12	5-9-14	6-10-16	8-13-20	10-15-24	12-17-27
		3 Way	3-4-6	4-5-9	5-6-11	5-8-13	6-9-15	7-10-17	9-14-22	11-16-25	13-18-30
2 Way		3-5-7	4-6-9	5-7-12	6-9-15	7-11-17	8-12-19	10-15-25	12-18-29	14-21-34	
1 Way		4-5-9	5-7-13	6-9-15	7-11-18	9-13-22	10-15-25	13-19-31	15-23-36	17-26-43	
12 0	Total Pressure (in. w.g.)	.013	.021	.035	.051	.069	.089	.141	.200	.274	
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975	
	Sound (NC)	-	18	24	29	33	37	43	48	53	
	Throw (ft.)	4 Way	3-4-6	4-4-8	4-6-10	5-7-11	5-9-13	6-10-16	8-12-19	10-14-23	11-17-26
		3 Way	3-4-6	4-5-9	4-7-11	5-8-12	6-9-15	7-11-17	9-13-21	11-16-25	12-18-2
2 Way		3-4-7	4-6-10	4-7-11	6-9-14	7-11-17	8-11-18	10-15-24	11-18-28	13-20-32	
1 Way		4-5-9	5-7-12	6-9-15	7-11-18	9-13-21	10-15-24	12-18-30	15-22-35	17-26-41	
12 x 12	Total Pressure (in. w.g.)	.019	.032	.051	.074	.099	.128	.200	.290	.390	
	Flow Rate (cfm)	300	400	500	600	700	800	1000	1200	1400	
	Sound (NC)	16	24	30	35	39	43	49	54	58	
	Throw (ft.)	4 Way	3-5-8	4-7-11	6-8-14	7-10-16	8-12-19	9-13-22	11-17-27	13-20-32	15-23-38
		3 Way	4-5-8	5-7-12	6-9-15	7-11-17	8-12-20	9-14-23	12-18-28	14-21-34	16-25-39
2 Way		4-6-10	5-8-13	7-10-16	8-12-19	9-14-23	10-16-26	13-20-32	16-24-38	18-28-45	
1 Way		5-8-12	7-10-16	8-13-20	10-15-25	12-18-29	13-20-32	17-25-40	20-30-49	23-35-57	
14 0	Total Pressure (in. w.g.)	.017	.029	.047	.068	.091	.118	.184	.267	.359	
	Flow Rate (cfm)	300	400	500	600	700	800	1000	1200	1400	
	Sound (NC)	16	22	28	33	37	41	47	52	56	
	Throw (ft.)	4 Way	3-5-8	4-7-11	6-8-14	7-10-16	8-12-19	9-13-22	11-17-27	13-20-32	15-23-28
		3 Way	4-5-8	5-7-12	6-9-15	7-11-17	8-12-20	9-14-23	12-18-28	14-21-34	16-25-39
2 Way		4-6-10	5-8-13	7-10-16	8-12-19	9-14-23	10-16-26	13-20-32	16-24-38	18-28-45	
1 Way		5-8-12	7-10-16	8-13-20	10-15-25	12-18-29	13-20-32	17-25-40	20-30-49	23-35-57	

For performance notes, see end of section.

# PERFORMANCE DATA

## PDS – 24 in. x 36 in., 48 in. Module

Inlet Size											
5 Ø	Total Pressure (in. w.g.)	.026	.044	.068	.098	.133	.171	.271	.385	.525	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	25	30	35	39	43	49	54	58	
	Throw (ft.)	4 Way	2-2-3	2-3-4	3-3-6	3-4-7	3-5-8	3-6-9	4-7-11	5-8-13	7-10-16
		3 Way	2-3-3	2-3-5	3-3-6	3-4-7	3-5-8	4-6-10	5-8-12	6-9-13	7-10-17
1 Way	2 Way	2-3-4	3-3-6	3-4-7	3-5-8	4-6-10	4-7-11	6-8-13	7-10-16	8-12-19	
	1 Way	3-3-5	3-4-7	3-5-8	4-7-10	5-8-12	6-8-13	7-11-17	8-13-20	9-14-24	
6 Ø	Total Pressure (in. w.g.)	.013	.022	.035	.050	.068	.088	.139	.198	.270	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	18	23	28	32	36	42	47	51	
	Throw (ft.)	4 Way	1-1-4	1-3-5	3-4-6	3-5-7	4-5-9	4-6-10	5-7-12	5-9-14	7-11-17
		3 Way	1-3-4	1-4-5	3-4-6	4-5-7	4-5-9	5-6-11	5-8-13	6-10-14	7-11-18
1 Way	2 Way	1-3-5	3-4-6	3-5-7	4-5-9	5-6-11	5-7-12	6-9-14	7-11-17	8-13-21	
	1 Way	3-4-5	3-5-7	4-5-9	5-7-11	5-8-13	6-9-14	7-12-18	9-14-22	10-15-25	
6 x 6	Total Pressure (in. w.g.)	.009	.015	.023	.033	.045	.058	.091	.129	.177	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	-	19	24	28	32	38	43	47	
	Throw (ft.)	4 Way	1-1-3	1-2-4	2-3-5	2-4-6	3-4-7	3-5-8	4-6-9	4-7-11	6-8-13
		3 Way	1-2-3	1-3-4	2-3-5	3-4-6	3-4-7	4-5-8	4-6-10	5-8-11	6-8-14
1 Way	2 Way	1-2-4	2-3-5	2-3-6	3-4-7	4-5-8	4-6-9	5-7-11	6-10-13	6-10-16	
	1 Way	2-3-4	2-4-6	3-4-7	4-6-8	4-6-10	5-7-11	6-9-14	7-11-17	8-12-20	
7 Ø	Total Pressure (in. w.g.)	.009	.015	.023	.033	.044	.057	.089	.127	.174	
	Flow Rate (cfm)	75	100	125	150	175	200	250	300	350	
	Sound (NC)	-	12	17	22	26	30	36	41	45	
	Throw (ft.)	4 Way	1-1-3	1-2-3	2-3-5	2-3-6	3-4-7	3-5-8	3-6-9	4-7-11	6-8-13
		3 Way	1-2-3	1-3-4	2-3-5	3-3-6	3-4-7	3-5-8	4-6-10	5-8-11	6-8-14
1 Way	2 Way	1-2-3	2-3-5	2-3-6	3-4-7	3-5-8	3-6-9	5-7-11	6-8-13	6-10-16	
	1 Way	2-3-4	2-3-6	3-4-7	3-6-8	4-6-10	5-7-11	6-9-14	7-10-17	8-12-19	
8 Ø	Total Pressure (in. w.g.)	.017	.029	.045	.065	.088	.115	.180	.258	.354	
	Flow Rate (cfm)	135	180	220	265	310	355	445	535	620	
	Sound (NC)	-	22	28	34	38	41	47	53	57	
	Throw (ft.)	4 Way	2-3-4	3-3-6	3-5-8	3-6-9	4-7-11	5-8-12	6-9-15	8-11-18	9-13-22
		3 Way	2-3-5	3-4-6	3-5-9	4-6-10	5-7-12	5-8-13	7-10-16	8-12-20	9-14-22
1 Way	2 Way	3-3-5	3-4-8	3-6-9	4-7-11	5-8-13	6-9-15	8-11-18	9-14-22	10-16-26	
	1 Way	3-4-7	3-6-9	5-7-12	6-9-14	7-10-16	8-11-18	9-15-23	11-17-2	13-20-32	
8 x 8	Total Pressure (in. w.g.)	.012	.019	.031	.045	.060	.078	.123	.176	.241	
	Flow Rate (cfm)	135	180	220	265	310	355	445	535	620	
	Sound (NC)	-	17	23	29	33	36	42	48	52	
	Throw (ft.)	4 Way	2-2-4	2-3-6	3-5-7	3-6-9	4-7-11	5-7-11	6-9-15	7-11-17	8-12-20
		3 Way	2-2-5	2-4-6	3-5-8	4-6-9	5-7-11	5-7-12	7-10-16	7-11-19	8-13-21
1 Way	2 Way	2-3-5	3-4-7	3-6-9	4-7-11	5-7-12	6-9-14	7-11-17	9-13-21	10-16-25	
	1 Way	2-4-7	3-6-9	5-7-11	6-8-13	7-10-16	7-11-17	9-14-22	11-16-26	12-19-30	

For performance notes, see end of section.

# PERFORMANCE DATA

## PDS – 24 in. x 36 in., 48 in. Module (continued)

Inlet Size											
10 Ø	Total Pressure (in. w.g.)	.021	.034	.055	.078	.106	.137	.216	.308	.422	
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975	
	Sound (NC)	17	25	31	36	40	44	50	55	60	
	Throw (ft.)	4 Way	3-4-7	4-5-9	5-7-11	6-8-13	6-10-15	7-11-17	9-14-21	11-16-25	13-18-29
		3 Way	3-4-7	4-6-10	5-7-12	6-9-14	7-10-16	8-12-18	10-15-23	12-17-27	14-19-32
2 Way		3-5-8	4-7-11	5-8-13	7-10-16	8-12-18	9-13-20	11-16-26	13-19-31	14-19-3	
1 Way		4-6-10	6-8-14	7-10-16	8-12-19	10-15-23	11-16-26	14-20-33	16-24-39	18-28-46	
10 x 10	Total Pressure (in. w.g.)	.014	.024	.038	.055	.073	.095	.150	.213	.292	
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975	
	Sound (NC)	-	21	27	32	36	40	46	51	56	
	Throw (ft.)	4 Way	3-4-6	4-5-8	5-6-10	5-7-12	5-9-14	6-10-16	8-13-20	10-15-24	12-17-27
		3 Way	3-4-6	4-5-9	5-6-11	5-8-13	6-9-15	7-11-17	9-13-22	11-16-25	13-18-30
2 Way		3-5-7	4-6-9	5-7-12	6-9-15	7-11-17	8-12-19	10-15-25	12-18-29	14-21-34	
1 Way		4-5-9	5-7-13	6-9-15	7-11-18	9-14-22	10-15-25	13-19-31	15-23-36	17-26-43	
12 Ø	Total Pressure (in. w.g.)	.012	.019	.030	.043	.058	.075	.119	.170	.233	
	Flow Rate (cfm)	210	280	345	415	485	555	695	825	975	
	Sound (NC)	-	18	24	29	33	37	43	48	53	
	Throw (ft.)	4 Way	3-4-6	4-4-8	4-6-10	5-7-11	5-9-13	6-10-16	8-12-19	10-14-23	11-17-26
		3 Way	3-4-6	4-5-9	4-6-11	5-8-12	6-9-15	7-11-17	9-13-21	11-16-25	12-18-29
2 Way		3-4-7	4-6-10	4-7-11	6-9-14	7-11-17	8-11-18	10-15-24	11-18-28	13-20-33	
1 Way		4-5-9	5-7-12	6-9-15	7-11-18	9-13-21	10-15-24	12-18-30	15-22-35	17-26-41	
12 x 12	Total Pressure (in. w.g.)	.016	.027	.049	.062	.083	.107	.168	.243	.327	
	Flow Rate (cfm)	300	400	500	600	700	800	1000	1200	1400	
	Sound (NC)	16	24	30	35	39	43	49	54	58	
	Throw (ft.)	4 Way	3-5-8	4-7-11	6-8-14	7-10-16	8-12-19	9-13-22	11-17-27	13-20-32	15-23-38
		3 Way	3-5-8	4-7-11	6-8-14	7-10-16	8-12-19	9-13-22	11-17-27	13-20-32	15-23-38
2 Way		4-6-10	5-8-13	7-10-16	8-12-19	9-14-23	10-16-26	13-20-32	16-24-38	18-28-45	
1 Way		5-8-12	7-10-16	8-13-20	10-15-25	12-18-29	13-20-32	17-25-40	20-30-49	23-35-57	
14 Ø	Total Pressure (in. w.g.)	.014	.024	.038	.055	.073	.095	.150	.213	.292	
	Flow Rate (cfm)	300	400	500	600	700	800	1000	1200	1400	
	Sound (NC)	-	22	28	33	37	41	47	52	56	
	Throw (ft.)	4 Way	3-5-8	4-7-11	6-8-14	7-10-16	8-12-19	9-13-22	11-17-27	13-20-32	15-23-38
		3 Way	4-5-8	5-7-12	6-9-15	7-11-17	8-12-20	9-14-23	12-18-28	14-21-34	16-25-39
2 Way		4-5-8	5-7-12	6-9-15	7-11-17	8-12-20	9-14-23	12-18-28	14-21-34	16-25-39	
1 Way		5-8-12	7-10-16	8-13-20	10-15-25	12-18-29	13-20-32	17-25-40	20-30-49	23-35-57	

**Performance Notes:**

1. Tested in accordance with ASHRAE Standard 70 – 2023 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<sup>-12</sup> 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)

# PERFORMANCE DATA

## PDR

Neck Size	Face Module	Neck Velocity (fpm)	200	300	400	500	600	700	800	900	1000
		Neg. Static Pressure (in. w.g.)	.008	.019	.033	.051	.074	.101	.132	.167	.206
		Velocity Pressure (in. w.g.)	.002	.006	.010	.016	.022	.031	.040	.050	.062
10 x 10	12 x 12	Flow Rate (cfm)	139	208	278	347	416	486	555	625	694
		Sound (NC)	-	-	-	-	18	22	26	29	31
14 x 14	16 x 16	Flow Rate (cfm)	272	408	554	681	817	953	1089	1225	1361
		Sound (NC)	-	-	-	15	20	24	27	30	33
18 x 18	20 x 20	Flow Rate (cfm)	450	675	900	1125	1350	1575	1800	2025	2250
		Sound (NC)	-	-	-	16	21	25	28	31	34
22 x 10	24 x 12	Flow Rate (cfm)	306	458	611	764	917	1069	1222	1375	1528
		Sound (NC)	-	-	-	15	20	24	27	30	33
22 x 22	24 x 24	Flow Rate (cfm)	672	1008	1344	1681	2017	2353	2689	3025	3361
		Sound (NC)	-	-	-	17	22	26	29	32	35
34 x 10	36 x 12	Flow Rate (cfm)	472	708	944	1181	1417	1653	1889	2125	2361
		Sound (NC)	-	-	-	16	21	25	28	31	34
34 x 22	36 x 24	Flow Rate (cfm)	1039	1558	2078	2597	3117	3636	4156	4675	5194
		Sound (NC)	-	-	-	18	23	27	30	33	36
46 x 10	48 x 12	Flow Rate (cfm)	639	958	1278	1597	1917	2236	2556	2875	3194
		Sound (NC)	-	-	-	17	22	26	29	32	35
46 x 22	48 x 24	Flow Rate (cfm)	1406	2108	2811	3514	4217	4919	5622	6325	7028
		Sound (NC)	-	-	-	19	24	28	31	34	37

### Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2023 Method of Testing for Rating the Performance of Air Outlets and Inlets.
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. NC values are based on room absorption of 10 dB re 10<sup>-12</sup> Watts and one diffuser.
5. Blanks "-" indicate an NC level below 15.



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