

## PERFORMANCE DATA:

### Models 4330, 4330A, 4330AA • Flush Face • 12 x 12 (300 x 300) Module Size

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	1400	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	.123	
	Total Pressure	.011	.019	.030	.044	.059	.076	.120	.171	.234	
	Flow Rate, CFM	<b>40</b>	<b>55</b>	<b>70</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>135</b>	<b>165</b>	<b>190</b>	
5" Dia.	Throw	4-Way	1-2-4	2-2-5	2-3-6	2-4-7	3-5-7	3-6-8	5-6-9	6-7-10	6-7-10
		3-Way	1-2-4	2-3-6	2-3-7	2-4-8	3-5-9	4-6-10	5-7-10	6-8-12	6-9-13
		2-Way	1-2-5	2-3-6	2-4-8	3-5-10	4-6-10	4-7-12	6-8-13	7-10-14	7-10-15
		1-Way	2-3-6	2-4-8	3-5-9	4-6-10	5-7-11	6-8-13	6-9-13	8-10-14	9-10-15
	Noise Criteria	—	—	15	20	24	28	34	39	43	
	Total Pressure	.015	.025	.040	.058	.078	.100	.158	.225	.308	
	Flow Rate, CFM	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>195</b>	<b>235</b>	<b>275</b>	
6" Dia.	Throw	4-Way	1-2-4	2-3-5	3-3-7	3-4-8	3-5-8	3-6-9	5-7-10	6-8-10	7-8-11
		3-Way	1-2-4	2-3-6	3-3-8	3-4-9	3-5-10	4-6-10	5-8-11	6-9-13	7-10-14
		2-Way	1-2-5	2-3-7	3-4-9	3-5-10	4-6-11	4-7-12	6-9-14	7-10-15	8-11-17
		1-Way	2-3-6	3-4-9	3-5-11	4-6-11	5-8-12	6-9-13	7-10-15	9-10-16	10-12-17
	Noise Criteria	—	—	17	22	26	30	36	41	45	
	Total Pressure	.016	.028	.040	.066	.092	.118	.187	.262	.36	
	Flow Rate, CFM	<b>80</b>	<b>105</b>	<b>135</b>	<b>160</b>	<b>190</b>	<b>215</b>	<b>270</b>	<b>320</b>	<b>375</b>	
7" Dia.	Throw	4-Way	1-2-5	2-3-6	3-4-9	3-5-10	4-6-10	4-8-11	6-9-12	8-10-13	9-10-14
		3-Way	1-2-5	2-4-7	3-4-10	3-5-11	4-6-12	5-8-13	6-10-14	7-11-16	9-12-17
		2-Way	1-2-6	2-4-9	3-5-11	4-6-12	5-8-14	5-9-15	7-11-17	9-13-18	10-14-20
		1-Way	2-4-8	3-5-11	4-6-12	5-8-13	6-10-14	8-11-15	9-12-17	11-13-18	12-14-20
	Noise Criteria	—	15	21	26	30	34	40	45	49	
	Total Pressure	.019	.034	.053	.077	.104	.136	.213	.306	.417	
	Flow Rate, CFM	<b>105</b>	<b>140</b>	<b>175</b>	<b>210</b>	<b>245</b>	<b>280</b>	<b>350</b>	<b>420</b>	<b>490</b>	
8" Dia.	Throw	4-Way	1-3-6	2-4-8	4-4-10	4-6-11	4-7-12	5-8-12	6-10-13	8-11-14	9-12-16
		3-Way	1-3-6	2-4-8	4-5-11	4-6-13	5-7-13	5-9-14	7-11-16	9-13-18	10-13-19
		2-Way	1-3-7	2-5-10	4-6-12	4-7-14	5-8-15	6-10-17	8-12-19	10-14-21	12-16-22
		1-Way	3-4-9	4-6-12	5-7-13	6-9-14	7-10-15	8-12-17	10-13-19	13-14-21	13-16-22
	Noise Criteria	—	17	23	28	32	36	42	47	51	
	Total Pressure	.018	.032	.051	.073	.099	.130	.200	.292	.395	
	Flow Rate, CFM	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>	
6" x 6"	Throw	4-Way	1-2-5	2-3-6	3-4-8	3-5-9	4-6-9	4-7-10	6-8-11	7-9-12	8-9-13
		3-Way	1-2-5	2-4-7	3-4-9	3-5-10	4-6-11	5-7-12	6-9-13	7-10-15	8-11-16
		2-Way	1-2-6	2-4-8	3-5-10	4-6-12	5-7-13	5-8-14	7-10-16	8-12-17	9-13-19
		1-Way	2-4-7	3-5-10	4-6-11	5-7-12	6-9-13	7-10-14	8-11-16	10-12-17	11-13-19
	Noise Criteria	—	13	19	24	28	32	38	43	47	

For performance notes, see page D211.

D

CEILING DIFFUSERS

## PERFORMANCE DATA:

Models 4330, 4330A, 4330AA • Flush Face • 24 x 12 (600 x 300) Module Size

Nominal Neck Size	Neck Velocity, FPM		300	400	500	600	700	800	1000	1200	1400
	Velocity Pressure		.006	.010	.016	.023	.031	.040	.063	.090	.123
5" Dia.	Total Pressure		.010	.018	.028	.040	.054	.070	.110	.157	.215
	Flow Rate, CFM		40	55	70	80	95	110	135	165	190
	Throw	4-Way	1-2-4	2-2-5	2-3-6	2-4-7	3-5-7	3-6-8	5-6-9	6-7-10	6-7-10
		3-Way	1-2-4	2-3-6	2-3-7	2-4-8	3-5-9	4-6-10	5-7-10	6-8-12	6-9-13
		2-Way	1-2-5	2-3-6	2-4-8	3-5-10	4-6-10	4-7-12	6-8-13	7-10-14	7-10-15
1-Way		2-3-6	2-4-8	3-5-9	4-6-10	5-7-11	6-8-13	6-9-13	8-10-14	9-10-15	
Noise Criteria		—	—	14	19	23	27	33	38	42	
6" Dia.	Total Pressure		.013	.021	.034	.048	.065	.084	.132	.189	.258
	Flow Rate, CFM		60	80	100	120	140	160	195	235	275
	Throw	4-Way	1-2-4	2-3-5	3-3-7	3-4-8	3-5-8	3-6-9	5-7-10	6-8-10	7-8-11
		3-Way	1-2-4	2-3-6	3-3-8	3-4-9	3-5-10	4-6-10	5-8-11	6-9-13	7-10-14
		2-Way	1-2-5	2-3-7	3-4-9	3-5-10	4-6-11	4-7-12	6-9-14	7-10-15	8-11-17
1-Way		2-3-6	3-4-9	3-5-11	4-6-11	5-8-12	6-9-13	7-10-15	9-10-16	10-12-17	
Noise Criteria		—	—	17	22	26	30	36	41	45	
7" Dia.	Total Pressure		.015	.025	.039	.057	.076	.098	.155	.221	.302
	Flow Rate, CFM		80	105	135	160	190	215	270	320	375
	Throw	4-Way	1-2-5	2-3-6	3-4-9	3-5-10	4-6-10	4-8-11	6-9-12	8-10-13	9-10-14
		3-Way	1-2-5	2-4-7	3-4-10	3-5-11	4-6-12	5-8-13	6-10-14	7-11-16	9-12-17
		2-Way	1-2-6	2-4-9	3-5-11	4-6-12	5-8-14	5-9-15	7-11-17	9-13-18	10-14-20
1-Way		2-4-8	3-5-11	4-6-12	5-8-13	6-10-14	8-11-15	9-12-17	11-13-18	12-14-20	
Noise Criteria		—	14	20	25	29	33	39	44	48	
8" Dia.	Total Pressure		.014	.026	.04	.058	.079	.103	.16	.231	.314
	Flow Rate, CFM		105	140	175	210	245	280	350	420	490
	Throw	4-Way	1-3-6	2-4-8	4-4-10	4-6-11	4-7-12	5-8-12	6-10-13	8-11-14	9-12-16
		3-Way	1-3-6	2-4-8	4-5-11	4-6-13	5-7-13	5-9-14	7-11-16	9-13-18	10-13-19
		2-Way	1-3-7	2-5-10	4-6-12	4-7-14	5-8-15	6-10-17	8-12-19	10-14-21	12-16-22
1-Way		3-4-9	4-6-12	5-7-13	6-9-14	7-10-15	8-12-17	10-13-19	13-14-21	13-16-22	
Noise Criteria		—	16	22	27	31	35	41	46	50	
6" x 6"	Total Pressure		.017	.030	.048	.069	.094	.122	.189	.274	.374
	Flow Rate, CFM		75	100	125	150	175	200	250	300	350
	Throw	4-Way	1-2-5	2-3-6	3-4-8	3-5-9	4-6-9	4-7-10	6-8-11	7-9-12	8-9-13
		3-Way	1-2-5	2-4-7	3-4-9	3-5-10	4-6-11	5-7-12	6-9-13	7-10-15	8-11-16
		2-Way	1-2-6	2-4-8	3-5-10	4-6-12	5-7-13	5-8-14	7-10-16	8-12-17	9-13-19
1-Way		2-4-7	3-5-10	4-6-11	5-7-12	6-9-13	7-10-14	8-11-16	10-12-17	11-13-19	
Noise Criteria		—	13	19	24	28	32	38	43	47	
18" x 6"	Total Pressure		.041	.068	.109	.157	.211	.273	.430	.613	.84
	Flow Rate, CFM		225	300	375	450	525	600	750	900	1050
	Throw	4-Way	5-7-15	6-10-17	8-12-19	10-15-21	11-16-22	13-17-24	16-19-27	17-21-30	19-23-32
		3-Way	5-7-15	7-10-17	8-13-19	10-15-21	12-16-22	13-17-24	16-19-27	17-21-30	19-23-32
		2-Way	5-8-15	7-11-17	9-13-19	11-15-21	13-16-22	14-17-24	16-19-27	17-21-30	19-23-32
1-Way		8-12-21	10-15-24	13-19-27	15-21-30	18-23-32	20-24-34	22-28-39	24-30-42	27-32-46	
Noise Criteria		17	25	31	36	40	44	50	55	59	

For performance notes, see page D211.

## PERFORMANCE DATA:

### Models 4330, 4330A, 4330AA • Flush Face • 16 x 16 (400 x 400) Module Size

Nominal Neck Size	Neck Velocity, FPM		300	400	500	600	700	800	1000	1200	1400
	Velocity Pressure		.006	.010	.016	.023	.031	.040	.063	.090	.123
	Total Pressure		.010	.018	.028	.040	.054	.070	.110	.157	.215
	Flow Rate, CFM		<b>40</b>	<b>55</b>	<b>70</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>135</b>	<b>165</b>	<b>190</b>
5" Dia.	Throw	4-Way	1-2-4	2-2-5	2-3-6	2-4-7	3-5-7	3-6-8	5-6-9	6-7-10	6-7-10
		3-Way	1-2-4	2-3-6	2-3-7	2-4-8	3-5-9	4-6-10	5-7-10	6-8-12	6-9-13
		2-Way	1-2-5	2-3-6	2-4-8	3-5-10	4-6-10	4-7-12	6-8-13	7-10-14	7-10-15
		1-Way	2-3-6	2-4-8	3-5-9	4-6-10	5-7-11	6-8-13	6-9-13	8-10-14	9-10-15
	Noise Criteria		—	—	14	19	23	27	33	38	42
	Total Pressure		.013	.021	.034	.048	.065	.084	.132	.189	.258
	Flow Rate, CFM		<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>200</b>	<b>235</b>	<b>275</b>
6" Dia.	Throw	4-Way	1-2-4	2-3-5	3-3-7	3-4-8	3-5-8	3-6-9	5-7-10	6-8-10	7-8-11
		3-Way	1-2-4	2-3-6	3-3-8	3-4-9	3-5-10	4-6-10	5-8-11	6-9-13	7-10-14
		2-Way	1-2-5	2-3-7	3-4-9	3-5-10	4-6-11	4-7-12	6-9-14	7-10-15	8-11-17
		1-Way	2-3-6	3-4-9	3-5-11	4-6-11	5-8-12	6-9-13	7-10-15	9-10-16	10-12-17
	Noise Criteria		—	—	17	22	26	30	36	41	45
	Total Pressure		.015	.025	.039	.057	.076	.098	.155	.221	.302
	Flow Rate, CFM		<b>80</b>	<b>105</b>	<b>135</b>	<b>160</b>	<b>190</b>	<b>215</b>	<b>270</b>	<b>320</b>	<b>375</b>
7" Dia.	Throw	4-Way	1-2-5	2-3-6	3-4-9	3-5-10	4-6-10	4-8-11	6-9-12	8-10-13	9-10-14
		3-Way	1-2-5	2-4-7	3-4-10	3-5-11	4-6-12	5-8-13	6-10-14	7-11-16	9-12-17
		2-Way	1-2-6	2-4-9	3-5-11	4-6-12	5-8-14	5-9-15	7-11-17	9-13-18	10-14-20
		1-Way	2-4-8	3-5-11	4-6-12	5-8-13	6-10-14	8-11-15	9-12-17	11-13-18	12-14-20
	Noise Criteria		—	14	20	25	29	33	39	44	48
	Total Pressure		.017	.028	.045	.065	.088	.113	.179	.255	.35
	Flow Rate, CFM		<b>105</b>	<b>140</b>	<b>175</b>	<b>210</b>	<b>245</b>	<b>280</b>	<b>350</b>	<b>420</b>	<b>490</b>
8" Dia.	Throw	4-Way	1-3-6	2-4-8	4-4-10	4-6-11	4-7-12	5-8-12	6-10-13	8-11-14	9-12-16
		3-Way	1-3-6	2-4-8	4-5-11	4-6-13	5-7-13	5-9-14	7-11-16	9-13-18	10-13-19
		2-Way	1-3-7	2-5-10	4-6-12	4-7-14	5-8-15	6-10-17	8-12-19	10-14-21	12-16-22
		1-Way	3-4-9	4-6-12	5-7-13	6-9-14	7-10-15	8-12-17	10-13-19	13-14-21	13-16-22
	Noise Criteria		—	16	22	27	31	35	41	46	50
	Total Pressure		.023	.039	.062	.089	.120	.154	.243	.348	.475
	Flow Rate, CFM		<b>165</b>	<b>220</b>	<b>270</b>	<b>325</b>	<b>380</b>	<b>435</b>	<b>545</b>	<b>655</b>	<b>760</b>
10" Dia.	Throw	4-Way	1-3-8	2-6-10	4-6-12	4-8-13	6-9-14	7-10-14	8-12-17	10-13-18	11-14-20
		3-Way	1-3-8	2-6-10	4-7-13	6-8-15	7-9-17	7-11-18	9-13-20	11-15-22	12-17-23
		2-Way	1-3-9	2-7-12	4-8-14	6-9-18	7-10-19	8-12-21	10-14-23	12-18-25	14-20-28
		1-Way	3-6-11	4-8-14	7-9-17	8-11-18	9-12-19	10-14-21	12-17-23	15-18-25	15-20-28
	Noise Criteria		11	19	25	30	34	38	44	49	53
	Total Pressure		.015	.025	.039	.057	.076	.098	.155	.221	.302
	Flow Rate, CFM		<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>
6" x 6"	Throw	4-Way	1-2-5	2-3-6	3-4-9	3-5-10	4-6-10	4-8-11	6-9-12	8-10-13	9-10-14
		3-Way	1-2-5	2-4-7	3-4-10	3-5-11	4-6-12	5-8-13	6-10-14	7-11-16	9-12-17
		2-Way	1-2-6	2-4-9	3-5-11	4-6-12	5-8-14	5-9-15	7-11-17	9-13-18	10-14-20
		1-Way	2-4-8	3-5-11	4-6-12	5-8-13	6-10-14	8-11-15	9-12-17	11-13-18	12-14-20
	Noise Criteria		—	14	20	25	29	33	39	44	48
	Total Pressure		.020	.034	.054	.078	.105	.135	.213	.304	.415
	Flow Rate, CFM		<b>135</b>	<b>180</b>	<b>220</b>	<b>265</b>	<b>310</b>	<b>355</b>	<b>445</b>	<b>535</b>	<b>625</b>
8" x 8"	Throw	4-Way	1-3-7	2-5-9	4-5-11	4-7-12	5-8-13	6-9-13	7-11-15	9-12-16	10-13-18
		3-Way	1-3-7	2-5-9	4-6-12	5-7-14	6-8-15	6-10-16	8-12-18	10-14-20	11-15-21
		2-Way	1-3-8	2-6-11	4-7-13	5-8-16	6-9-17	7-11-19	9-13-21	11-16-23	13-18-25
		1-Way	3-5-10	4-7-13	6-8-15	7-10-16	8-11-17	9-13-19	11-15-21	14-16-23	14-18-25
	Noise Criteria		9	17	23	28	32	36	42	47	51

For performance notes, see page D211.

## PERFORMANCE DATA:

### Models 4330, 4330A, 4330AA • Flush Face • 20 x 20 (500 x 500) Module Size

Nominal Neck Size	Neck Velocity, FPM		300	400	500	600	700	800	1000	1200	1400
	Velocity Pressure		.006	.010	.016	.023	.031	.040	.063	.090	.123
5" Dia.	Total Pressure		.010	.018	.028	.040	.054	.070	.110	.157	.215
	Flow Rate, CFM		40	55	70	80	95	110	135	165	190
	Throw	4-Way	1-2-4	2-2-5	2-3-6	2-4-7	3-5-7	3-6-8	5-6-9	6-7-10	6-7-10
		3-Way	1-2-4	2-3-6	2-3-7	2-4-8	3-5-9	4-6-10	5-7-10	6-8-12	6-9-13
		2-Way	1-2-5	2-3-6	2-4-8	3-5-10	4-6-10	4-7-12	6-8-13	7-10-14	7-10-15
1-Way		2-3-6	2-4-8	3-5-9	4-6-10	5-7-11	6-8-13	6-9-13	8-10-14	9-10-15	
Noise Criteria		—	—	14	19	23	27	33	38	42	
6" Dia.	Total Pressure		.013	.021	.034	.048	.065	.084	.132	.189	.258
	Flow Rate, CFM		60	80	100	120	140	160	200	235	275
	Throw	4-Way	1-2-4	2-3-5	3-3-7	3-4-8	3-5-8	3-6-9	5-7-10	6-8-10	7-8-11
		3-Way	1-2-4	2-3-6	3-3-8	3-4-9	3-5-10	4-6-10	5-8-11	6-9-13	7-10-14
		2-Way	1-2-5	2-3-7	3-4-9	3-5-10	4-6-11	4-7-12	6-9-14	7-10-15	8-11-17
1-Way		2-3-6	3-4-9	3-5-11	4-6-11	5-8-12	6-9-13	7-10-15	9-10-16	10-12-17	
Noise Criteria		—	—	17	22	26	30	36	41	45	
7" Dia.	Total Pressure		.014	.023	.037	.053	.071	.092	.145	.207	.283
	Flow Rate, CFM		80	105	135	160	190	215	270	320	375
	Throw	4-Way	1-2-5	2-3-6	3-4-9	3-5-10	4-6-10	4-8-11	6-9-12	8-10-13	9-10-14
		3-Way	1-2-5	2-4-7	3-4-10	3-5-11	4-6-12	5-8-13	6-10-14	7-11-16	9-12-17
		2-Way	1-2-6	2-4-9	3-5-11	4-6-12	5-8-14	5-9-15	7-11-17	9-13-18	10-14-20
1-Way		2-4-8	3-5-11	4-6-12	5-8-13	6-10-14	8-11-15	9-12-17	11-13-18	12-14-20	
Noise Criteria		—	13	19	24	28	32	38	43	47	
8" Dia.	Total Pressure		.014	.024	.038	.055	.075	.096	.151	.216	.295
	Flow Rate, CFM		105	140	175	210	245	280	350	420	490
	Throw	4-Way	1-3-6	2-4-8	4-4-10	4-6-11	4-7-12	5-8-12	6-10-13	8-11-14	9-12-16
		3-Way	1-3-6	2-4-8	4-5-11	4-6-13	5-7-13	5-9-14	7-11-16	9-13-18	10-13-19
		2-Way	1-3-7	2-5-10	4-6-12	4-7-14	5-8-15	6-10-17	8-12-19	10-14-21	12-16-22
1-Way		3-4-9	4-6-12	5-7-13	6-9-14	7-10-15	8-12-17	10-13-19	13-14-21	13-16-22	
Noise Criteria		—	16	22	27	31	35	41	46	50	
10" Dia.	Total Pressure		.019	.031	.050	.071	.096	.124	.195	.279	.381
	Flow Rate, CFM		165	220	270	325	380	435	545	655	760
	Throw	4-Way	1-3-8	2-6-10	4-6-12	4-8-13	6-9-14	7-10-14	8-12-17	10-13-18	11-14-20
		3-Way	1-3-8	2-6-10	4-7-13	6-8-15	7-9-17	7-11-18	9-13-20	11-15-22	12-17-23
		2-Way	1-3-9	2-7-12	4-8-14	6-9-18	7-10-19	8-12-21	10-14-23	12-18-25	14-20-28
1-Way		3-6-11	4-8-14	7-9-17	8-11-18	9-12-19	10-14-21	12-17-23	15-18-25	15-20-28	
Noise Criteria		11	19	25	30	34	38	44	49	53	
12" Dia.	Total Pressure		.023	.038	.060	.087	.117	.150	.237	.338	.462
	Flow Rate, CFM		235	315	390	470	550	630	785	945	1100
	Throw	4-Way	2-4-8	3-5-12	5-7-14	5-8-16	6-9-17	7-12-18	9-14-20	12-16-21	14-17-23
		3-Way	2-4-10	3-6-13	5-7-16	6-9-18	7-11-20	8-13-21	11-16-23	13-18-27	15-20-28
		2-Way	2-4-11	3-7-15	5-8-18	7-11-20	8-13-23	9-15-25	12-18-28	15-21-31	17-23-33
1-Way		3-6-14	5-8-18	7-11-20	8-13-21	11-16-23	12-18-25	15-20-28	18-21-31	19-23-33	
Noise Criteria		14	22	28	33	37	41	47	52	56	
14" Dia.	Total Pressure		.029	.049	.079	.113	.152	.196	.309	.440	.603
	Flow Rate, CFM		320	425	530	635	740	850	1060	1270	1480
	Throw	4-Way	2-5-10	4-6-13	6-8-16	6-10-18	7-11-19	8-13-20	11-16-23	13-18-24	16-19-26
		3-Way	2-3-11	4-7-14	6-8-18	7-11-20	8-12-23	10-14-24	12-18-26	14-20-30	17-23-31
		2-Way	3-5-12	4-8-17	6-10-20	8-12-23	10-14-26	11-17-29	13-20-31	17-24-35	19-26-37
1-Way		4-7-16	6-10-20	8-12-23	10-14-24	12-18-26	13-20-29	17-23-31	20-24-35	22-26-37	
Noise Criteria		19	27	33	38	42	46	52	57	61	
6" x 6"	Total Pressure		.014	.023	.037	.053	.071	.092	.145	.207	.283
	Flow Rate, CFM		75	100	125	150	175	200	250	300	350
	Throw	4-Way	1-2-5	2-3-6	3-4-9	3-5-10	4-6-10	4-8-11	6-9-12	8-10-13	9-10-14
		3-Way	1-2-5	2-4-7	3-4-10	3-5-11	4-6-12	5-8-13	6-10-14	7-11-16	9-12-17
		2-Way	1-2-6	2-4-9	3-5-11	4-6-12	5-8-14	5-9-15	7-11-17	9-13-18	10-14-20
1-Way		2-4-8	3-5-11	4-6-12	5-8-13	6-10-14	8-11-15	9-12-17	11-13-18	12-14-20	
Noise Criteria		—	13	19	24	28	32	38	43	47	
8" x 8"	Total Pressure		.019	.031	.050	.071	.096	.124	.195	.279	.381
	Flow Rate, CFM		135	180	220	265	310	355	445	535	625
	Throw	4-Way	1-3-8	2-6-10	4-6-12	4-8-13	6-9-14	7-10-14	8-12-17	10-13-18	11-14-20
		3-Way	1-3-8	2-6-10	4-7-13	6-8-15	7-9-17	7-11-18	9-13-20	11-15-22	12-17-23
		2-Way	1-3-9	2-7-12	4-8-14	6-9-18	7-10-19	8-12-21	10-14-23	12-18-25	14-20-28
1-Way		3-6-11	4-8-14	7-9-17	8-11-18	9-12-19	10-14-21	12-17-23	15-18-25	15-20-28	
Noise Criteria		11	19	25	30	34	38	44	49	53	
10" x 10"	Total Pressure		.021	.035	.057	.082	.110	.142	.223	.318	.435
	Flow Rate, CFM		210	280	350	415	485	555	695	835	975
	Throw	4-Way	2-4-8	3-5-11	5-7-13	5-8-15	6-9-16	7-11-17	9-13-19	11-15-20	13-16-22
		3-Way	2-4-9	3-6-12	5-7-15	6-9-17	7-10-19	8-12-20	10-15-22	12-17-22	14-19-26
		2-Way	2-4-10	3-7-14	5-8-17	7-10-19	8-12-22	9-14-24	11-17-26	14-20-29	16-22-31
1-Way		3-6-13	5-8-17	7-10-19	8-12-20	10-15-22	11-17-24	14-19-26	17-20-29	18-22-31	
Noise Criteria		13	21	27	32	36	40	46	51	55	

## PERFORMANCE DATA:

### Models 4330, 4330A, 4330AA • Flush Face • 24 x 24 (600 x 600) Module Size • Round Neck

Nominal Neck Size	Neck Velocity, FPM		300	400	500	600	700	800	1000	1200	1400
	VP		.006	.010	.016	.023	.031	.040	.063	.090	.123
	Total Pressure		.013	.021	.034	.048	.065	.084	.132	.189	.258
	Flow Rate, CFM		<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>195</b>	<b>235</b>	<b>275</b>
6" Dia.	Throw	4-Way	1-2-4	2-3-5	3-3-7	3-4-8	3-5-8	3-6-9	5-7-10	6-8-10	7-8-11
		3-Way	1-2-4	2-3-6	3-3-8	3-4-9	3-5-10	4-6-10	5-8-11	6-9-13	7-10-14
		2-Way	1-2-5	2-3-7	3-4-9	3-5-10	4-6-11	4-7-12	6-9-14	7-10-15	8-11-17
		1-Way	2-3-6	3-4-9	3-5-11	4-6-11	5-8-12	6-9-13	7-10-15	9-10-16	10-12-17
	Noise Criteria		—	—	17	22	26	30	36	41	45
	Total Pressure		.014	.024	.038	.055	.075	.096	.151	.216	.295
	Flow Rate, CFM		<b>105</b>	<b>140</b>	<b>175</b>	<b>210</b>	<b>245</b>	<b>280</b>	<b>350</b>	<b>420</b>	<b>490</b>
8" Dia.	Throw	4-Way	1-3-6	2-4-8	4-4-10	4-6-11	4-7-12	5-8-12	6-10-13	8-11-14	9-12-16
		3-Way	1-3-6	2-4-8	4-5-11	4-6-13	5-7-13	5-9-14	7-11-16	9-13-18	10-13-19
		2-Way	1-3-7	2-5-10	4-6-12	4-7-14	5-8-15	6-10-17	8-12-19	10-14-21	12-16-22
		1-Way	3-4-9	4-6-12	5-7-13	6-9-14	7-10-15	8-12-17	10-13-19	13-14-21	13-16-22
	Noise Criteria		—	16	22	27	31	35	41	46	50
	Total Pressure		.016	.027	.043	.062	.084	.109	.171	.244	.333
	Flow Rate, CFM		<b>165</b>	<b>220</b>	<b>270</b>	<b>325</b>	<b>380</b>	<b>435</b>	<b>545</b>	<b>655</b>	<b>760</b>
10" Dia.	Throw	4-Way	1-3-8	2-6-10	4-6-12	4-8-13	6-9-14	7-10-14	8-12-17	10-13-18	11-14-20
		3-Way	1-3-8	2-6-10	4-7-13	6-8-15	7-9-17	7-11-18	9-13-20	11-15-22	12-17-23
		2-Way	1-3-9	2-7-12	4-8-14	6-9-18	7-10-19	8-12-21	10-14-23	12-18-25	14-20-28
		1-Way	3-6-11	4-8-14	7-9-17	8-11-18	9-12-19	10-14-21	12-17-23	15-18-25	15-20-28
	Noise Criteria		11	19	25	30	34	38	44	49	53
	Total Pressure		.020	.033	.053	.076	.103	.132	.208	.298	.407
	Flow Rate, CFM		<b>235</b>	<b>315</b>	<b>390</b>	<b>470</b>	<b>550</b>	<b>630</b>	<b>785</b>	<b>945</b>	<b>1100</b>
12" Dia.	Throw	4-Way	2-4-8	3-5-12	5-7-14	5-8-16	6-9-17	7-12-18	9-14-20	12-16-21	14-17-23
		3-Way	2-4-10	3-6-13	5-7-16	6-9-18	7-11-20	8-13-21	11-16-23	13-18-27	15-20-28
		2-Way	2-4-11	3-7-15	5-8-18	7-11-20	8-13-23	9-15-25	12-18-28	15-21-31	17-23-33
		1-Way	3-6-14	5-8-18	7-11-20	8-13-21	11-16-23	12-18-25	15-20-28	18-21-31	19-23-33
	Noise Criteria		14	22	28	33	37	41	47	52	56
	Total Pressure		.023	.038	.061	.088	.119	.153	.241	.345	.47
	Flow Rate, CFM		<b>320</b>	<b>425</b>	<b>530</b>	<b>635</b>	<b>740</b>	<b>850</b>	<b>1060</b>	<b>1270</b>	<b>1480</b>
14" Dia.	Throw	4-Way	2-5-10	4-6-13	6-8-16	6-10-18	7-11-19	8-13-20	11-16-23	13-18-24	16-19-26
		3-Way	2-5-11	4-7-14	6-8-18	7-11-20	8-12-23	10-14-24	12-18-26	14-20-30	17-23-31
		2-Way	3-5-12	4-8-17	6-10-20	8-12-23	10-14-26	11-17-29	13-20-31	17-24-35	19-26-37
		1-Way	4-8-16	6-10-20	8-12-23	10-14-24	12-18-26	13-20-29	17-23-31	20-24-35	22-26-37
	Noise Criteria		16	24	30	35	39	43	49	54	58
	Total Pressure		.029	.048	.076	.110	.148	.191	.300	.430	.587
	Flow Rate, CFM		<b>420</b>	<b>560</b>	<b>700</b>	<b>840</b>	<b>980</b>	<b>1120</b>	<b>1400</b>	<b>1680</b>	<b>1960</b>
16" Dia.	Throw	4-Way	2-5-12	5-8-15	6-9-19	8-12-20	9-13-21	11-15-24	13-19-26	15-20-28	18-22-31
		3-Way	3-5-12	5-8-17	6-11-20	8-12-25	9-14-26	11-17-28	14-20-32	17-25-34	19-26-38
		2-Way	4-5-14	5-9-19	6-12-24	9-14-28	11-17-31	13-19-33	15-24-37	19-28-40	21-31-44
		1-Way	5-8-18	8-12-24	9-14-26	12-18-28	13-20-31	15-24-33	19-26-37	24-28-40	25-31-44
	Noise Criteria		19	27	33	38	42	46	52	57	61

For performance notes, see page D211.

## PERFORMANCE DATA:

### Models 4330, 4330A, 4330AA • Flush Face • 24 x 24 (600 x 600) Module Size • Square Neck

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	1400	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	.123	
	Total Pressure	.014	.023	.037	.053	.071	.092	.145	.207	.283	
	Flow Rate, CFM	75	100	125	150	175	200	250	300	350	
6" x 6"	Throw	4-Way	1-2-5	2-3-6	3-4-9	3-5-10	4-6-10	4-8-11	6-9-12	8-10-13	9-10-14
		3-Way	1-2-5	2-4-7	3-4-10	3-5-11	4-6-12	5-8-13	6-10-14	7-11-16	9-12-17
		2-Way	1-2-6	2-4-9	3-5-11	4-6-12	5-8-14	5-9-15	7-11-17	9-13-18	10-14-20
		1-Way	2-4-8	3-5-11	4-6-12	5-8-13	6-10-14	8-11-15	9-12-17	11-13-18	12-14-20
	Noise Criteria	—	13	19	24	28	32	38	43	47	
8" x 8"	Total Pressure	.016	.027	.043	.062	.084	.109	.171	.244	.333	
	Flow Rate, CFM	135	180	220	265	310	355	445	535	625	
	Throw	4-Way	1-3-8	2-6-10	4-6-12	4-8-13	6-9-14	7-10-14	8-12-17	10-13-18	11-14-20
		3-Way	1-3-8	2-6-10	4-7-13	6-8-15	7-9-17	7-11-18	9-13-20	11-15-22	12-17-23
		2-Way	1-3-9	2-7-12	4-8-14	6-9-18	7-10-19	8-12-21	10-14-23	12-18-25	14-20-28
1-Way		3-6-11	4-8-14	7-9-17	8-11-18	9-12-19	10-14-21	12-17-23	15-18-25	15-20-28	
Noise Criteria	11	19	25	30	34	38	44	49	53		
10" x 10"	Total Pressure	.020	.033	.053	.076	.103	.132	.208	.298	.407	
	Flow Rate, CFM	235	315	390	470	550	630	785	945	1100	
	Throw	4-Way	2-4-8	3-5-11	5-7-13	5-8-15	6-9-16	7-11-17	9-13-19	11-15-20	13-16-22
		3-Way	2-4-9	3-6-12	5-7-15	6-9-17	7-10-19	8-12-20	10-15-22	12-17-22	14-19-26
		2-Way	2-4-10	3-7-14	5-8-17	7-10-19	8-12-22	9-14-24	11-17-26	14-20-29	16-22-31
1-Way		3-6-13	5-8-17	7-10-19	8-12-20	10-15-22	11-17-24	14-19-26	17-20-29	18-22-31	
Noise Criteria	14	22	28	33	37	41	47	52	56		
12" x 12"	Total Pressure	.021	.037	.058	.083	.115	.148	.230	.333	.450	
	Flow Rate, CFM	300	400	500	600	700	800	1000	1200	1400	
	Throw	4-Way	2-4-10	4-7-13	5-8-16	7-10-17	8-11-18	9-13-20	11-16-22	13-17-24	15-19-26
		3-Way	2-4-10	4-7-14	5-9-17	7-10-21	8-12-22	9-14-24	12-17-27	14-21-29	16-22-32
		2-Way	2-4-12	4-8-16	5-10-20	8-12-24	9-14-26	11-16-28	13-20-31	16-24-34	18-26-37
1-Way		4-7-15	7-10-20	8-12-22	10-15-24	11-17-26	13-20-28	16-22-31	20-24-34	21-26-37	
Noise Criteria	16	24	30	35	39	43	49	54	58		

#### Performance Notes:

- All pressures are in inches w.g..
- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Listed throws for the 18" x 6" neck/24" x 12" module are for the long side of the diffuser. Throws for the narrow side are approximately x 0.6 listed values.

- Noise Criteria (NC) values are based upon 10 dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in space indicates an Noise Criteria of less than 10.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

#### Balancing:

It is recommended that a commercially available 'Flow Hood' is used for field balancing. The airflow meter directly reads average flow rate with great accuracy at all volumes. It is a much faster and more accurate alternative to time consuming multiple velocity readings, eliminating the use of Ak factors and the calculations required to convert the average velocity into airflow.