

PERFORMANCE DATA:

MODEL 5310(I) • 1" (25) SLOT WIDTH

1 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	20	30	40	50	60	70	80	90
	Total Pressure	.008	.018	.032	.049	.071	.097	.126	.160
	Noise Criteria	–	–	17	23	27	31	34	37
	Throw	1-3-07	3-5-09	5-7-11	6-8-13	7-10-14	9-11-15	9-11-16	10-12-17
8" Round Inlet	Airflow, CFM	30	40	50	60	70	80	90	100
	Total Pressure	.015	.027	.042	.060	.082	.107	.136	.168
	Noise Criteria	–	–	17	23	27	30	32	35
	Throw	3-5-09	5-7-11	6-8-13	7-10-14	9-11-15	9-11-16	10-12-17	11-13-18
10" Oval Inlet	Airflow, CFM	40	50	60	70	80	90	100	110
	Total Pressure	.022	.034	.048	.066	.086	.109	.135	.163
	Noise Criteria	–	15	20	24	27	29	32	35
	Throw	5-7-11	6-8-13	7-10-14	9-11-15	9-11-16	10-12-17	11-13-18	12-13-19

1 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	50	65	80	95	110	125	140	155
	Total Pressure	.019	.033	.049	.070	.093	.121	.151	.185
	Noise Criteria	–	18	23	26	30	33	36	38
	Throw	2-6-12	5-8-14	7-10-16	8-12-18	10-13-20	11-14-21	12-15-22	13-16-23
8" Round Inlet	Airflow, CFM	65	80	95	110	125	140	155	170
	Total Pressure	.022	.033	.046	.062	.080	.101	.124	.149
	Noise Criteria	–	18	22	25	28	31	33	36
	Throw	5-8-14	7-10-16	8-12-18	10-13-20	11-14-21	12-15-22	13-16-23	14-17-24
10" Oval Inlet	Airflow, CFM	80	95	110	125	140	155	170	185
	Total Pressure	.026	.037	.050	.064	.081	.099	.119	.141
	Noise Criteria	16	20	24	27	30	32	34	36
	Throw	7-10-16	8-12-18	10-13-20	11-14-21	12-15-22	13-16-23	14-17-24	15-18-25
12" Oval Inlet	Airflow, CFM	95	110	125	140	155	170	185	200
	Total Pressure	.033	.044	.057	.071	.087	.105	.124	.145
	Noise Criteria	16	19	22	25	28	31	33	35
	Throw	8-12-18	10-13-20	11-14-21	12-15-22	13-16-23	14-17-24	15-18-25	16-18-26

1 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	80	95	110	125	140	155	170	185
	Total Pressure	.026	.037	.049	.064	.080	.098	.118	.140
	Noise Criteria	15	19	23	26	29	31	33	35
	Throw	5-9-16	7-11-18	8-12-19	10-14-21	11-15-22	12-16-23	13-17-24	14-18-25
10" Oval Inlet	Airflow, CFM	95	110	125	140	155	170	185	200
	Total Pressure	.031	.041	.054	.067	.082	.099	.117	.137
	Noise Criteria	15	19	23	25	28	30	32	35
	Throw	7-11-18	8-12-19	10-14-21	11-15-22	12-16-23	13-17-24	14-18-25	15-18-26
12" Oval Inlet	Airflow, CFM	110	125	140	155	170	185	200	215
	Total Pressure	.030	.038	.048	.059	.071	.084	.098	.113
	Noise Criteria	17	20	22	26	28	30	33	34
	Throw	8-12-19	10-14-21	11-15-22	12-16-23	13-17-24	14-18-25	15-18-26	16-19-27

Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10⁻¹² watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (–) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2006.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.030	.051
2	.060	.104
3	.090	.155
4	.120	.206

PERFORMANCE DATA:

MODEL 5310(I) • 1" (25) SLOT WIDTH

2 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	50	65	80	95	110	125	140	155
	Total Pressure	.020	.034	.052	.073	.098	.127	.159	.195
	Noise Criteria	–	17	23	27	31	34	37	40
	Throw	3-6-13	5-8-16	7-11-18	9-13-20	10-14-22	11-16-24	12-17-25	13-18-26
8" Round Inlet	Airflow, CFM	65	80	95	110	125	140	155	170
	Total Pressure	.026	.039	.055	.074	.095	.119	.146	.176
	Noise Criteria	15	19	22	26	29	32	35	38
	Throw	5-8-16	7-11-18	9-13-20	10-14-22	11-16-24	12-17-25	13-18-26	14-19-27
10" Oval Inlet	Airflow, CFM	80	95	110	125	140	155	170	185
	Total Pressure	.043	.060	.081	.104	.131	.160	.193	.229
	Noise Criteria	16	20	24	27	30	33	36	38
	Throw	7-11-18	9-13-20	10-14-22	11-16-24	12-17-25	13-18-26	14-19-27	14-20-28

2 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	100	120	140	160	180	200	220	240
	Total Pressure	.054	.077	.105	.137	.174	.214	.259	.309
	Noise Criteria	18	22	26	29	33	35	37	39
	Throw	4-8-19	7-11-22	9-13-24	10-15-26	12-17-28	13-19-30	14-20-32	15-22-33
8" Round Inlet	Airflow, CFM	120	140	160	180	200	220	240	260
	Total Pressure	.041	.056	.073	.092	.113	.137	.163	.192
	Noise Criteria	17	21	24	27	30	32	34	36
	Throw	7-11-22	9-13-24	10-15-26	12-17-28	13-19-30	14-20-32	15-22-33	16-23-34
10" Oval Inlet	Airflow, CFM	140	160	180	200	220	240	260	280
	Total Pressure	.038	.049	.063	.077	.093	.111	.130	.151
	Noise Criteria	18	21	24	27	29	31	33	35
	Throw	9-13-24	10-15-26	12-17-28	13-19-30	14-20-32	15-22-33	16-23-34	17-24-36
12" Oval Inlet	Airflow, CFM	160	180	200	220	240	260	280	300
	Total Pressure	.032	.040	.049	.060	.071	.083	.097	.111
	Noise Criteria	17	21	23	25	27	29	31	33
	Throw	10-15-26	12-17-28	13-19-30	14-20-32	15-22-33	16-23-34	17-24-36	18-25-37

2 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	160	180	200	220	240	260	280	300
	Total Pressure	.059	.075	.093	.112	.133	.157	.182	.209
	Noise Criteria	20	23	25	27	29	31	33	35
	Throw	8-13-25	10-15-28	11-17-30	13-19-31	14-20-33	15-22-34	16-23-36	17-24-37
10" Oval Inlet	Airflow, CFM	180	200	220	240	260	280	300	320
	Total Pressure	.052	.064	.077	.092	.108	.125	.143	.163
	Noise Criteria	19	21	23	26	28	30	32	34
	Throw	10-15-28	11-17-30	13-19-31	14-20-33	15-22-34	16-23-36	17-24-37	18-26-38
12" Oval Inlet	Airflow, CFM	200	220	240	260	280	300	320	340
	Total Pressure	.045	.054	.064	.076	.088	.101	.115	.129
	Noise Criteria	19	22	24	26	28	30	32	34
	Throw	11-17-30	13-19-31	14-20-33	15-22-34	16-23-36	17-24-37	18-26-38	19-27-39

Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10⁻¹² watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.

6. Dash (–) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2006.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.030	.051
2	.060	.104
3	.090	.155
4	.120	.206

B LINEAR DIFFUSERS AND BAR GRILLES

PERFORMANCE DATA:

MODEL 5310(I) • 1" (25) SLOT WIDTH

3 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	60	80	100	120	140	160	180	200
	Total Pressure	.024	.043	.067	.096	.131	.171	.216	.267
	Noise Criteria	–	18	23	27	31	34	37	40
	Throw	2-6-13	5-9-17	7-11-20	9-13-23	11-15-25	12-16-27	13-17-28	14-18-30
8" Round Inlet	Airflow, CFM	80	100	120	140	160	180	200	220
	Total Pressure	.034	.053	.077	.104	.136	.173	.213	.258
	Noise Criteria	–	18	23	26	29	32	35	37
	Throw	5-9-17	7-11-20	9-13-23	11-15-25	12-16-27	13-17-28	14-18-30	15-19-31
10" Oval Inlet	Airflow, CFM	100	120	140	160	180	200	220	240
	Total Pressure	.029	.042	.057	.075	.095	.117	.141	.168
	Noise Criteria	16	20	23	26	29	32	34	36
	Throw	7-11-20	9-13-23	11-15-25	12-16-27	13-17-28	14-18-30	15-19-31	16-20-32

3 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	125	150	175	200	225	250	275	300
	Total Pressure	.071	.103	.140	.183	.231	.285	.345	.411
	Noise Criteria	17	21	25	28	31	34	36	38
	Throw	4-9-19	7-12-23	9-14-26	11-16-29	12-18-31	14-19-33	15-21-35	17-22-37
8" Round Inlet	Airflow, CFM	150	175	200	225	250	275	300	325
	Total Pressure	.048	.065	.085	.108	.134	.162	.192	.226
	Noise Criteria	18	21	24	27	30	32	34	36
	Throw	7-12-38	9-14-38	11-16-38	12-18-38	14-19-38	15-21-38	17-22-38	18-23-38
10" Oval Inlet	Airflow, CFM	175	200	225	250	275	300	325	350
	Total Pressure	.045	.058	.074	.091	.110	.131	.154	.179
	Noise Criteria	19	22	25	27	29	31	33	35
	Throw	9-14-26	11-16-29	12-18-31	14-19-33	15-21-35	17-22-37	18-23-38	19-24-40
12" Oval Inlet	Airflow, CFM	200	225	250	275	300	325	350	375
	Total Pressure	.032	.040	.049	.060	.071	.083	.097	.111
	Noise Criteria	17	20	23	25	27	29	31	33
	Throw	11-16-29	12-18-31	14-19-33	15-21-35	17-22-37	18-23-38	19-24-40	20-25-41

3 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	180	210	240	270	300	330	360	390
	Total Pressure	.063	.085	.111	.141	.174	.210	.250	.293
	Noise Criteria	18	21	25	29	31	33	35	37
	Throw	7-13-25	9-15-28	11-17-31	13-19-34	15-21-36	16-23-38	18-24-40	19-25-42
10" Oval Inlet	Airflow, CFM	210	240	270	300	330	360	390	420
	Total Pressure	.054	.071	.090	.111	.134	.160	.188	.218
	Noise Criteria	20	22	25	27	30	32	34	36
	Throw	9-15-28	11-17-31	13-19-34	15-21-36	16-23-38	18-24-40	19-25-42	20-26-44
12" Oval Inlet	Airflow, CFM	240	270	300	330	360	390	420	450
	Total Pressure	.036	.046	.057	.069	.082	.096	.111	.128
	Noise Criteria	19	21	23	26	28	30	32	34
	Throw	11-17-31	13-19-34	15-21-36	16-23-38	18-24-40	19-25-42	20-26-44	21-28-45

Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10⁻¹² watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (–) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2006.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.030	.051
2	.060	.104
3	.090	.155
4	.120	.206

PERFORMANCE DATA:

MODEL 5310(I) • 1" (25) SLOT WIDTH

4 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	75	100	125	150	175	200	225	250
	Total Pressure	.030	.054	.084	.121	.164	.214	.271	.335
	Noise Criteria	15	19	24	28	32	35	38	40
	Throw	4-6-15	7-10-20	9-13-23	11-15-26	12-18-29	14-20-31	15-21-33	16-23-34
8" Round Inlet	Airflow, CFM	100	125	150	175	200	225	250	275
	Total Pressure	.035	.054	.078	.106	.138	.175	.216	.261
	Noise Criteria	15	19	23	27	31	33	35	38
	Throw	7-10-20	9-13-23	11-15-26	12-18-29	14-20-31	15-21-33	16-23-34	17-24-36
10" Oval Inlet	Airflow, CFM	125	150	175	200	225	250	275	300
	Total Pressure	.029	.041	.056	.073	.093	.115	.139	.165
	Noise Criteria	17	21	24	28	30	33	35	37
	Throw	9-13-23	11-15-26	12-18-29	14-20-31	15-21-33	16-23-34	17-24-36	18-25-37

4 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	160	190	220	250	280	310	340	370
	Total Pressure	.104	.147	.198	.255	.320	.392	.472	.559
	Noise Criteria	19	23	27	30	33	35	37	39
	Throw	7-10-23	9-13-27	11-16-31	13-18-33	14-21-36	16-23-38	17-25-40	18-26-42
8" Round Inlet	Airflow, CFM	190	220	250	280	310	340	370	400
	Total Pressure	.065	.087	.112	.140	.172	.207	.245	.287
	Noise Criteria	19	22	25	28	30	32	34	36
	Throw	9-13-27	11-16-31	13-18-33	14-21-36	16-23-38	17-25-40	18-26-42	19-28-44
10" Oval Inlet	Airflow, CFM	220	250	280	310	340	370	400	430
	Total Pressure	.054	.070	.088	.108	.129	.153	.179	.207
	Noise Criteria	19	23	25	27	29	31	33	35
	Throw	11-16-1931	13-18-33	14-21-36	16-23-38	17-25-40	18-26-42	19-28-44	20-29-45
12" Oval Inlet	Airflow, CFM	250	280	310	340	370	400	430	460
	Total Pressure	.039	.049	.061	.073	.086	.101	.116	.133
	Noise Criteria	17	20	23	25	27	29	31	33
	Throw	13-18-33	14-21-36	16-23-38	17-25-40	18-26-42	19-28-44	20-29-45	21-31-47

4 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	220	260	300	340	380	420	460	500
	Total Pressure	.085	.118	.157	.202	.253	.309	.370	.437
	Noise Criteria	19	22	27	29	31	33	36	38
	Throw	9-13-29	12-17-33	14-20-36	16-23-39	17-25-42	19-27-45	20-29-47	22-31-49
10" Oval Inlet	Airflow, CFM	260	300	340	380	420	460	500	540
	Total Pressure	.072	.095	.122	.153	.187	.224	.265	.309
	Noise Criteria	21	24	27	30	32	34	36	38
	Throw	12-17-33	14-20-36	16-23-39	17-25-42	19-27-45	20-29-47	22-31-49	23-33-51
12" Oval Inlet	Airflow, CFM	300	340	380	420	460	500	540	580
	Total Pressure	.043	.056	.070	.085	.102	.121	.141	.162
	Noise Criteria	20	23	26	28	30	32	34	36
	Throw	14-20-36	16-23-39	17-25-42	19-27-45	20-29-47	22-31-49	23-33-51	24-35-53

Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10⁻¹² watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

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5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (–) in space indicates an Noise Criteria level of less than 15.

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Number of Slots	Ak Factor per foot	
	Supply	Return
1	.030	.051
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4	.120	.206