

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5810(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	.006	.014	.026	.040	.058	.078	.102	.130
	Noise Criteria	–	–	16	22	26	30	33	36
	Throw	1-2-4	2-3-5	2-4-6	3-5-7	4-6-8	4-6-9	5-6-9	5-7-10
8" Round Inlet	Airflow, CFM	30	40	50	60	70	80	90	100
	Total Pressure	.019	.033	.052	.074	.101	.132	.167	.207
	Noise Criteria	–	–	16	22	26	29	31	34
	Throw	2-3-5	2-4-6	3-5-7	4-6-8	4-6-9	5-6-9	5-7-10	6-7-10
10" Oval Inlet	Airflow, CFM	40	50	60	70	80	90	100	110
	Total Pressure	.040	.063	.090	.123	.160	.203	.250	.303
	Noise Criteria	–	–	19	23	26	28	31	34
	Throw	2-4-6	3-5-7	4-6-8	4-6-9	5-6-9	5-7-10	6-7-10	6-7-10

1 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	50	65	80	95	110	125	140	155
	Total Pressure	.016	.026	.040	.056	.076	.098	.123	.150
	Noise Criteria	–	17	22	25	29	32	35	37
	Throw	1-2-5	1-3-7	1-3-9	2-4-10	2-5-10	3-5-11	3-6-12	4-7-12
8" Round Inlet	Airflow, CFM	65	80	95	110	125	140	155	170
	Total Pressure	.018	.027	.038	.050	.065	.082	.100	.120
	Noise Criteria	–	18	22	25	28	31	33	36
	Throw	1-3-7	1-3-9	2-4-10	2-5-10	3-5-11	3-6-12	4-7-12	5-8-13
10" Oval Inlet	Airflow, CFM	80	95	110	125	140	155	170	185
	Total Pressure	.029	.041	.055	.071	.089	.109	.131	.155
	Noise Criteria	15	19	23	26	29	31	33	35
	Throw	1-3-9	2-4-10	2-5-10	3-5-11	3-6-12	4-7-12	5-8-13	6-9-14
12" Oval Inlet	Airflow, CFM	95	110	125	140	155	170	185	200
	Total Pressure	.045	.060	.077	.097	.119	.143	.169	.198
	Noise Criteria	15	18	21	24	27	30	32	34
	Throw	2-4-10	2-5-10	3-5-11	3-6-12	4-7-12	5-8-13	6-9-14	7-10-15

1 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	80	95	110	125	140	155	170	185
	Total Pressure	.021	.030	.040	.052	.065	.079	.096	.113
	Noise Criteria	15	19	23	26	29	31	33	35
	Throw	1-3-7	1-3-9	2-4-9	3-5-10	3-5-11	4-6-11	5-7-12	6-8-13
10" Oval Inlet	Airflow, CFM	95	110	125	140	155	170	185	200
	Total Pressure	.025	.034	.043	.054	.067	.080	.095	.111
	Noise Criteria	15	19	23	25	28	30	32	34
	Throw	1-3-9	2-4-9	3-5-10	3-5-11	4-6-11	5-7-12	6-8-13	6-9-14
12" Oval Inlet	Airflow, CFM	110	125	140	155	170	185	200	215
	Total Pressure	.033	.042	.053	.065	.078	.092	.107	.124
	Noise Criteria	16	19	21	25	27	29	31	33
	Throw	2-4-9	3-5-10	3-5-11	4-6-11	5-7-12	6-8-13	6-9-14	7-10-15

Performance Data Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. All pressures are in inches w.g..
3. 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.
4. Noise Criteria [NC] values based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (–) in space denotes a Noise Criteria level less than 15.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.025	.051
2	.045	.104
3	.060	.155
4	.082	.206

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5810(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	.016	.028	.042	.059	.080	.103	.129	.158
	Noise Criteria	–	16	22	26	30	33	36	39
	Throw	2-4-07	2-5-08	4-6-09	5-6-10	6-7-10	6-8-12	7-8-14	7-9-15
8" Round Inlet	Airflow, CFM	65	80	95	110	125	140	155	170
	Total Pressure	.021	.032	.045	.060	.077	.097	.119	.143
	Noise Criteria	–	19	22	26	29	32	35	38
	Throw	2-5-08	4-6-09	5-6-10	6-7-10	6-8-12	7-8-14	7-9-15	8-10-15
10" Oval Inlet	Airflow, CFM	80	95	110	125	140	155	170	185
	Total Pressure	.035	.049	.065	.085	.106	.130	.156	.185
	Noise Criteria	15	19	23	26	29	32	35	37
	Throw	4-6-09	5-6-10	6-7-10	6-8-12	7-8-14	7-9-15	8-10-15	8-10-16

2 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	100	120	140	160	180	200	220	240
	Total Pressure	.043	.063	.085	.111	.141	.174	.210	.250
	Noise Criteria	17	21	25	28	31	34	36	38
	Throw	1-4-8	2-6-9	4-7-12	5-8-13	6-9-14	6-10-14	7-11-15	8-12-17
8" Round Inlet	Airflow, CFM	120	140	160	180	200	220	240	260
	Total Pressure	.033	.045	.059	.074	.092	.111	.132	.155
	Noise Criteria	17	21	24	27	30	32	34	36
	Throw	2-6-9	4-7-12	5-8-13	6-9-14	6-10-14	7-11-15	8-12-17	8-12-17
10" Oval Inlet	Airflow, CFM	140	160	180	200	220	240	260	280
	Total Pressure	.031	.040	.051	.063	.076	.090	.106	.123
	Noise Criteria	18	21	24	27	29	31	33	35
	Throw	4-7-12	5-8-13	6-9-14	6-10-14	7-11-15	8-12-17	8-12-17	9-13-19
12" Oval Inlet	Airflow, CFM	160	180	200	220	240	260	280	300
	Total Pressure	.026	.032	.040	.048	.058	.068	.078	.090
	Noise Criteria	17	21	23	25	27	29	31	33
	Throw	5-8-13	6-9-14	6-10-14	7-11-15	8-12-17	8-12-17	9-13-19	9-13-21

2 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	160	180	200	220	240	260	280	300
	Total Pressure	.048	.061	.075	.091	.108	.127	.147	.169
	Noise Criteria	21	24	26	28	30	32	34	36
	Throw	3-6-10	4-7-12	6-9-14	7-9-15	7-10-16	8-11-17	8-12-18	9-13-19
10" Oval Inlet	Airflow, CFM	180	200	220	240	260	280	300	320
	Total Pressure	.042	.052	.063	.074	.087	.101	.116	.132
	Noise Criteria	21	23	25	28	30	32	34	36
	Throw	4-7-12	6-9-14	7-9-15	7-10-16	8-11-17	8-12-18	9-13-19	9-14-21
12" Oval Inlet	Airflow, CFM	200	220	240	260	280	300	320	340
	Total Pressure	.036	.044	.052	.061	.071	.082	.093	.105
	Noise Criteria	20	23	25	27	29	31	33	35
	Throw	6-9-14	7-9-15	7-10-16	8-11-17	8-12-18	9-13-19	9-14-21	10-15-22

Performance Data Notes:

- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- All pressures are in inches w.g..
- 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.
- Noise Criteria [NC] values based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (-) in space denotes a Noise Criteria level less than 15.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.025	.051
2	.045	.104
3	.060	.155
4	.082	.206

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5810(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	.019	.035	.054	.078	.106	.138	.175	.216
	Noise Criteria	–	16	21	25	29	32	35	38
	Throw	2-4-8	3-5-9	4-6-10	5-7-11	6-8-12	7-9-14	7-10-15	8-10-16
8" Round Inlet	Airflow, CFM	80	100	120	140	160	180	200	220
	Total Pressure	.018	.028	.040	.054	.071	.090	.111	.134
	Noise Criteria	–	17	22	25	28	31	34	36
	Throw	3-5-9	4-6-10	5-7-11	6-8-12	7-9-14	7-10-15	8-10-16	8-11-17
10" Oval Inlet	Airflow, CFM	100	120	140	160	180	200	220	240
	Total Pressure	.024	.034	.046	.061	.077	.095	.115	.136
	Noise Criteria	15	19	22	25	28	31	33	35
	Throw	4-6-10	5-7-11	6-8-12	7-9-14	7-10-15	8-10-16	8-11-17	9-11-18

3 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	125	150	175	200	225	250	275	300
	Total Pressure	.058	.083	.113	.148	.187	.231	.280	.333
	Noise Criteria	16	20	24	27	30	33	35	37
	Throw	2-4-10	3-6-12	5-7-14	5-8-15	6-8-16	7-9-17	7-10-18	7-11-18
8" Round Inlet	Airflow, CFM	150	175	200	225	250	275	300	325
	Total Pressure	.039	.053	.069	.088	.108	.131	.156	.183
	Noise Criteria	17	20	23	26	29	31	33	35
	Throw	3-6-12	5-7-14	5-8-15	6-8-16	7-9-17	7-10-18	7-11-18	8-12-20
10" Oval Inlet	Airflow, CFM	175	200	225	250	275	300	325	350
	Total Pressure	.036	.047	.060	.074	.089	.106	.125	.145
	Noise Criteria	17	20	23	25	27	29	31	33
	Throw	5-7-14	5-8-15	6-8-16	7-9-17	7-10-18	7-11-18	8-12-20	8-13-22
12" Oval Inlet	Airflow, CFM	200	225	250	275	300	325	350	375
	Total Pressure	.026	.032	.040	.048	.058	.068	.078	.090
	Noise Criteria	16	19	22	24	26	28	30	32
	Throw	5-8-15	6-8-16	7-9-17	7-10-18	7-11-18	8-12-20	8-13-22	9-14-23

3 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	180	210	240	270	300	330	360	390
	Total Pressure	.051	.069	.090	.114	.141	.170	.203	.238
	Noise Criteria	17	20	24	27	30	32	34	36
	Throw	3-7-13	4-8-15	6-9-17	6-10-18	7-11-19	7-12-20	8-13-22	8-14-23
10" Oval Inlet	Airflow, CFM	210	240	270	300	330	360	390	420
	Total Pressure	.044	.058	.073	.090	.109	.130	.152	.176
	Noise Criteria	19	21	24	26	29	31	33	35
	Throw	4-8-15	6-9-17	6-10-18	7-11-19	7-12-20	8-13-22	8-14-23	9-15-24
12" Oval Inlet	Airflow, CFM	240	270	300	330	360	390	420	450
	Total Pressure	.029	.037	.046	.056	.066	.078	.090	.103
	Noise Criteria	18	20	22	25	27	29	31	33
	Throw	6-9-17	6-10-18	7-11-19	7-12-20	8-13-22	8-14-23	9-15-24	10-16-26

Performance Data Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. All pressures are in inches w.g..
3. 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.
4. Noise Criteria [NC] values based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (-) in space denotes a Noise Criteria level less than 15.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.025	.051
2	.045	.104
3	.060	.155
4	.082	.206

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5810(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	.024	.043	.068	.098	.133	.174	.220	.271
	Noise Criteria	–	17	22	26	30	33	36	38
	Throw	3-5-10	4-7-11	6-8-12	6-8-13	7-9-15	7-10-16	8-11-18	8-11-19
8" Round Inlet	Airflow, CFM	100	125	150	175	200	225	250	275
	Total Pressure	.022	.034	.049	.066	.087	.109	.135	.164
	Noise Criteria	–	18	22	26	30	32	34	37
	Throw	4-7-11	6-8-12	6-8-13	7-9-15	7-10-16	8-11-18	8-11-19	9-13-21
10" Round Inlet	Airflow, CFM	125	150	175	200	225	250	275	300
	Total Pressure	.023	.033	.046	.059	.075	.093	.112	.134
	Noise Criteria	16	20	23	27	29	32	34	36
	Throw	6-8-12	6-8-13	7-9-15	7-10-16	8-11-18	8-11-19	9-13-21	9-14-22

4 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	160	190	220	250	280	310	340	370
	Total Pressure	.085	.119	.160	.207	.259	.318	.382	.453
	Noise Criteria	17	21	25	28	31	33	35	37
	Throw	3-6-14	5-7-15	6-8-16	7-10-17	7-11-18	8-12-19	8-13-20	9-14-21
8" Round Inlet	Airflow, CFM	190	220	250	280	310	340	370	400
	Total Pressure	.052	.070	.091	.114	.139	.168	.199	.232
	Noise Criteria	18	21	24	27	29	31	33	35
	Throw	5-7-15	6-8-16	7-10-17	7-11-18	8-12-19	8-13-20	9-14-21	9-14-22
10" Oval Inlet	Airflow, CFM	220	250	280	310	340	370	400	430
	Total Pressure	.044	.057	.071	.087	.105	.124	.145	.168
	Noise Criteria	18	21	24	26	28	30	32	34
	Throw	6-8-16	7-10-17	7-11-18	8-12-19	8-13-20	9-14-21	9-14-22	10-15-24
12" Oval Inlet	Airflow, CFM	250	280	310	340	370	400	430	460
	Total Pressure	.032	.040	.049	.059	.070	.082	.094	.108
	Noise Criteria	17	20	23	25	27	29	31	33
	Throw	7-10-17	7-11-18	8-12-19	8-13-20	9-14-21	9-14-22	10-15-24	10-16-26

4 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	220	260	300	340	380	420	460	500
	Total Pressure	.069	.096	.128	.164	.205	.250	.300	.354
	Noise Criteria	17	21	25	28	30	32	35	37
	Throw	4-6-13	6-8-15	7-10-17	8-12-19	9-13-21	9-14-22	10-15-23	10-16-24
10" Oval Inlet	Airflow, CFM	260	300	340	380	420	460	500	540
	Total Pressure	.058	.077	.099	.124	.151	.181	.214	.250
	Noise Criteria	19	22	25	28	30	32	34	36
	Throw	6-8-15	7-10-17	8-12-19	9-13-21	9-14-22	10-15-23	10-16-24	11-18-26
12" Oval Inlet	Airflow, CFM	300	340	380	420	460	500	540	580
	Total Pressure	.035	.045	.056	.069	.083	.098	.114	.131
	Noise Criteria	18	21	24	26	28	30	32	34
	Throw	7-10-17	8-12-19	9-13-21	9-14-22	10-15-23	10-16-24	11-18-26	12-19-28

Performance Data Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. All pressures are in inches w.g..
3. 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.
4. Noise Criteria [NC] values based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (–) in space denotes a Noise Criteria level less than 15.
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	Supply	Return
1	.025	.051
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