

PERFORMANCE DATA • MODEL SERIES 5700

MODEL: 5710(I) • 1" (25) SLOT WIDTH

1 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	20	40	60	80	100	120	140
	Total Pressure	.006	.025	.056	.099	.155	.223	.304
	Static Pressure	.005	.018	.041	.072	.113	.162	.221
	Noise Criteria	–	–	18	24	31	37	41
	Throw	1-2-8	5-7-13	7-10-16	10-13-19	12-15-21	13-16-23	14-17-25
8" Round Inlet	Airflow, CFM	30	55	80	105	130	155	180
	Total Pressure	.012	.039	.083	.144	.220	.313	.422
	Static Pressure	.011	.038	.080	.138	.211	.300	.404
	Noise Criteria	–	–	20	26	34	38	43
	Throw	3-6-11	7-10-16	10-13-19	12-16-22	13-16-23	14-17-25	16-19-28
10" Round Inlet	Airflow, CFM	50	75	100	125	150	175	200
	Total Pressure	.025	.057	.101	.158	.228	.311	.406
	Static Pressure	.025	.056	.099	.155	.222	.303	.396
	Noise Criteria	–	15	23	30	35	39	41
	Throw	6-8-14	9-12-18	12-15-21	13-16-23	14-17-25	16-19-28	18-21-30

1 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	50	75	100	125	150	175	200
	Total Pressure	.016	.036	.064	.100	.143	.195	.255
	Static Pressure	.012	.027	.047	.074	.107	.145	.190
	Noise Criteria	–	–	19	26	32	36	40
	Throw	4-7-13	7-11-16	9-13-18	12-15-20	13-16-23	14-17-25	15-18-26
8" Round Inlet	Airflow, CFM	70	100	130	160	190	220	250
	Total Pressure	.021	.042	.072	.108	.153	.205	.265
	Static Pressure	.018	.037	.063	.095	.135	.180	.233
	Noise Criteria	–	15	22	28	33	36	41
	Throw	7-11-16	9-13-18	12-13-21	13-16-23	15-18-26	16-19-27	17-20-28
10" Oval Inlet	Airflow, CFM	80	115	150	185	220	255	290
	Total Pressure	.025	.051	.087	.132	.186	.250	.323
	Static Pressure	.023	.048	.082	.124	.176	.236	.305
	Noise Criteria	–	15	23	30	34	38	42
	Throw	8-12-17	12-14-20	13-16-23	14-17-25	16-19-27	17-20-28	18-22-31
12" Oval Inlet	Airflow, CFM	110	150	190	230	270	310	350
	Total Pressure	.037	.069	.110	.162	.223	.294	.372
	Static Pressure	.035	.066	.105	.154	.212	.280	.357
	Noise Criteria	–	17	22	29	33	37	40
	Throw	11-14-17	13-16-23	15-18-26	16-20-28	17-21-30	18-23-32	20-24-34

1 Slot • 60" (1524) Long

6" Round Inlet	Airflow, CFM	70	100	130	160	190	220	250
	Total Pressure	.027	.054	.092	.139	.196	.263	.339
	Static Pressure	.019	.038	.064	.085	.138	.185	.238
	Noise Criteria	–	17	24	30	37	39	42
	Throw	5-8-13	6-11-16	10-13-18	11-14-20	12-15-22	13-16-23	14-17-25
8" Round Inlet	Airflow, CFM	80	115	150	185	220	255	290
	Total Pressure	.022	.045	.076	.116	.164	.221	.285
	Static Pressure	.018	.038	.065	.098	.139	.187	.242
	Noise Criteria	–	15	22	27	32	37	40
	Throw	6-9-13	9-12-16	11-13-19	12-15-21	13-16-23	14-17-25	15-19-26
10" Oval Inlet	Airflow, CFM	110	150	190	230	270	310	350
	Total Pressure	.033	.061	.098	.143	.197	.260	.331
	Static Pressure	.030	.055	.089	.130	.179	.236	.301
	Noise Criteria	–	18	25	30	35	38	42
	Throw	9-12-16	11-13-19	12-15-21	13-16-24	14-18-25	16-19-27	17-21-29
12" Oval Inlet	Airflow, CFM	160	200	240	280	320	360	400
	Total Pressure	.068	.107	.154	.209	.273	.346	.427
	Static Pressure	.065	.101	.146	.198	.259	.328	.405
	Noise Criteria	–	20	25	30	34	37	40
	Throw	11-14-19	13-16-22	14-17-24	15-18-26	16-19-28	17-21-30	18-22-32

See page C70 for performance data notes.

PLENUM SLOT AND LIGHT TROFFER DIFFUSERS

PERFORMANCE DATA • MODEL SERIES 5700

MODEL: 5710(I) • 1" (25) SLOT WIDTH

2 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	50	75	100	125	150	175	200
	Total Pressure	.016	.036	.064	.100	.144	.196	.256
	Static Pressure	.012	.026	.046	.073	.105	.142	.186
	Noise Criteria	–	15	22	27	32	36	38
	Throw	2-6-13	6-10-19	9-13-21	11-17-24	14-19-26	16-20-28	18-21-30
8" Round Inlet	Airflow, CFM	70	100	130	160	190	220	250
	Total Pressure	.021	.043	.072	.109	.154	.207	.267
	Static Pressure	.018	.037	.063	.095	.135	.186	.233
	Noise Criteria	–	15	22	27	32	36	40
	Throw	5-9-18	9-13-21	11-17-24	14-19-26	16-20-28	18-21-30	19-23-32
10" Round Inlet	Airflow, CFM	90	125	160	195	230	265	300
	Total Pressure	.032	.061	.100	.149	.207	.274	.352
	Static Pressure	.030	.057	.094	.140	.194	.258	.330
	Noise Criteria	–	16	24	30	35	38	41
	Throw	8-12-19	11-16-23	14-19-26	16-20-28	18-22-30	20-24-32	22-25-33

2 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	80	115	150	185	220	255	290
	Total Pressure	.025	.051	.086	.131	.185	.249	.322
	Static Pressure	.014	.029	.050	.076	.107	.144	.186
	Noise Criteria	–	–	16	23	29	35	40
	Throw	3-6-14	4-10-20	8-14-25	11-18-28	13-20-30	16-23-33	19-25-36
8" Round Inlet	Airflow, CFM	85	110	140	175	220	285	360
	Total Pressure	.019	.033	.053	.083	.131	.219	.349
	Static Pressure	.015	.025	.041	.064	.101	.170	.271
	Noise Criteria	–	–	–	15	22	29	37
	Throw	3-6-16	4-10-20	7-13-24	11-16-27	14-20-30	18-24-34	22-27-38
10" Oval Inlet	Airflow, CFM	110	140	180	230	290	370	430
	Total Pressure	.021	.033	.055	.090	.143	.233	.315
	Static Pressure	.018	.029	.048	.079	.126	.205	.276
	Noise Criteria	–	–	–	20	27	35	40
	Throw	4-10-21	7-13-25	11-18-28	14-22-32	19-25-36	24-29-40	25-31-43
12" Oval Inlet	Airflow, CFM	110	140	180	225	285	365	465
	Total Pressure	.016	.025	.042	.066	.105	.172	.280
	Static Pressure	.014	.023	.039	.060	.097	.159	.258
	Noise Criteria	–	–	–	16	23	31	39
	Throw	5-11-22	7-14-25	12-18-28	13-20-30	19-25-36	23-28-37	25-31-44

2 Slot • 60" (1524) Long

6" Round Inlet	Airflow, CFM	70	115	160	205	250	295	340
	Total Pressure	.019	.050	.097	.159	.237	.329	.437
	Static Pressure	.010	.027	.052	.086	.127	.177	.235
	Noise Criteria	–	–	19	26	32	36	38
	Throw	3-5-12	6-9-17	9-12-19	11-16-22	14-18-25	15-19-27	16-20-28
8" Round Inlet	Airflow, CFM	90	150	210	270	330	390	450
	Total Pressure	.016	.044	.086	.142	.212	.297	.395
	Static Pressure	.011	.032	.062	.102	.153	.214	.284
	Noise Criteria	–	–	15	23	30	35	40
	Throw	4-7-15	8-12-19	12-16-23	15-18-26	16-20-28	18-22-31	19-23-33
10" Oval Inlet	Airflow, CFM	160	225	290	355	420	485	550
	Total Pressure	.031	.060	.100	.151	.211	.281	.361
	Static Pressure	.024	.048	.080	.120	.168	.224	.288
	Noise Criteria	–	15	22	29	34	39	43
	Throw	8-12-19	12-16-23	15-19-26	17-21-30	19-23-32	20-24-34	21-26-37
12" Oval Inlet	Airflow, CFM	220	300	380	460	540	620	700
	Total Pressure	.036	.066	.106	.155	.214	.282	.360
	Static Pressure	.029	.054	.087	.127	.175	.231	.294
	Noise Criteria	–	19	26	32	37	41	44
	Throw	12-16-23	15-19-26	18-22-31	19-23-33	21-25-36	22-27-38	24-29-41

See page C70 for performance data notes.

PERFORMANCE DATA • MODEL SERIES 5700

MODEL: 5710(I) • 1" (25) SLOT WIDTH

3 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	90	120	150	180	210	240	270
	Total Pressure	.040	.071	.112	.161	.219	.286	.362
	Static Pressure	.028	.049	.077	.110	.150	.196	.248
	Noise Criteria	–	15	21	27	32	36	40
	Throw	4-8-15	6-10-20	8-12-24	10-14-28	12-18-30	14-20-32	15-21-34
8" Round Inlet	Airflow, CFM	120	160	200	240	280	320	360
	Total Pressure	.048	.073	.112	.154	.219	.277	.346
	Static Pressure	.036	.059	.087	.121	.165	.210	.278
	Noise Criteria	–	15	21	27	31	36	40
	Throw	5-9-18	8-13-24	10-16-30	12-19-32	14-22-35	17-25-37	19-27-40
10" Round Inlet	Airflow, CFM	160	210	260	310	360	410	460
	Total Pressure	.042	.072	.111	.158	.212	.276	.347
	Static Pressure	.037	.064	.098	.140	.189	.245	.308
	Noise Criteria	–	15	22	28	32	36	40
	Throw	8-12-25	10-16-29	12-20-33	14-24-37	16-28-40	18-30-42	22-32-45

3 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	80	120	160	200	240	280	320
	Total Pressure	.016	.037	.066	.103	.148	.202	.264
	Static Pressure	.008	.018	.032	.050	.072	.098	.128
	Noise Criteria	–	–	16	23	29	34	38
	Throw	1-2-6	2-3-11	3-6-15	4-10-19	6-11-22	8-13-24	10-15-26
8" Round Inlet	Airflow, CFM	175	225	275	325	375	425	475
	Total Pressure	.042	.071	.114	.153	.208	.260	.323
	Static Pressure	.038	.045	.076	.099	.127	.166	.209
	Noise Criteria	–	15	21	27	31	35	40
	Throw	3-7-17	5-11-21	8-13-23	10-16-25	12-18-27	14-20-29	15-22-31
10" Oval Inlet	Airflow, CFM	225	300	375	450	525	600	675
	Total Pressure	.044	.078	.121	.175	.238	.310	.393
	Static Pressure	.033	.059	.092	.132	.180	.235	.298
	Noise Criteria	–	16	23	29	34	38	42
	Throw	5-11-21	10-14-24	12-18-27	14-21-30	17-23-32	19-24-34	21-26-36
12" Oval Inlet	Airflow, CFM	280	360	440	520	600	680	760
	Total Pressure	.046	.076	.114	.159	.211	.272	.339
	Static Pressure	.038	.062	.093	.130	.173	.222	.277
	Noise Criteria	–	15	21	27	31	35	40
	Throw	9-14-23	12-18-27	14-22-30	16-24-32	19-26-34	22-28-36	25-30-39

3 Slot • 60" (1524) Long

6" Round Inlet	Airflow, CFM	80	120	180	240	280	340	390
	Total Pressure	.023	.051	.115	.204	.278	.410	.540
	Static Pressure	.012	.028	.063	.111	.152	.224	.294
	Noise Criteria	–	–	17	25	30	36	39
	Throw	2-3-11	4-9-17	8-13-21	11-16-24	13-18-26	16-20-29	17-22-31
8" Round Inlet	Airflow, CFM	140	200	260	320	380	440	500
	Total Pressure	.022	.045	.077	.116	.163	.219	.283
	Static Pressure	.012	.024	.041	.062	.088	.118	.152
	Noise Criteria	–	–	17	23	29	34	38
	Throw	4-7-15	6-9-19	9-12-22	11-15-25	14-18-28	17-20-31	20-23-34
10" Oval Inlet	Airflow, CFM	200	280	360	440	520	600	680
	Total Pressure	.028	.054	.090	.134	.188	.250	.321
	Static Pressure	.020	.038	.063	.095	.132	.176	.226
	Noise Criteria	–	–	18	25	30	35	39
	Throw	7-10-21	10-12-23	12-15-26	14-17-29	17-20-32	19-23-35	22-26-37
12" Oval Inlet	Airflow, CFM	250	350	430	520	610	700	800
	Total Pressure	.031	.061	.092	.135	.186	.245	.320
	Static Pressure	.025	.048	.073	.107	.147	.194	.253
	Noise Criteria	–	–	18	24	29	33	37
	Throw	11-17-25	16-21-29	19-23-32	21-25-36	22-27-39	24-29-41	25-31-44

See page C70 for performance data notes.

PLENUM SLOT AND LIGHT TROFFER DIFFUSERS

PERFORMANCE DATA • MODEL SERIES 5700

MODEL: 5710(I) • 1" (25) SLOT WIDTH

4 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	60	100	140	180	220	260	300
	Total Pressure	.014	.039	.077	.127	.190	.265	.353
	Static Pressure	.008	.023	.045	.074	.111	.155	.207
	Noise Criteria	–	–	16	24	31	36	38
	Throw	2-3-12	2-5-14	4-10-20	7-13-25	10-15-31	12-18-34	13-20-35
8" Round Inlet	Airflow, CFM	150	200	250	300	350	400	450
	Total Pressure	.046	.081	.127	.183	.249	.326	.412
	Static Pressure	.034	.061	.095	.137	.187	.244	.309
	Noise Criteria	–	16	23	29	34	38	42
	Throw	5-10-20	8-13-27	11-17-32	13-20-35	15-23-38	17-26-40	19-29-43
10" Round Inlet	Airflow, CFM	175	250	325	400	450	500	550
	Total Pressure	.038	.078	.132	.199	.252	.311	.377
	Static Pressure	.032	.066	.111	.169	.213	.264	.319
	Noise Criteria	–	16	24	31	34	38	41
	Throw	7-12-24	12-18-33	16-25-39	19-28-42	21-31-44	23-33-47	26-35-49

4 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	140	170	200	230	260	290	320
	Total Pressure	.053	.078	.108	.143	.182	.227	.276
	Static Pressure	.044	.066	.091	.120	.153	.191	.232
	Noise Criteria	–	–	20	24	28	31	35
	Throw	2-5-13	3-7-16	4-10-19	6-11-21	7-12-23	8-14-25	9-16-27
8" Round Inlet	Airflow, CFM	200	250	300	350	400	450	500
	Total Pressure	.046	.073	.105	.142	.186	.235	.290
	Static Pressure	.025	.040	.057	.078	.102	.129	.159
	Noise Criteria	–	15	21	26	30	34	37
	Throw	3-7-17	5-10-21	7-13-24	9-15-26	11-17-28	13-19-30	15-21-32
10" Oval Inlet	Airflow, CFM	250	330	410	490	570	650	730
	Total Pressure	.041	.072	.111	.158	.214	.278	.351
	Static Pressure	.028	.048	.075	.107	.144	.188	.237
	Noise Criteria	–	15	22	28	33	37	40
	Throw	5-10-21	8-14-25	12-17-28	14-21-31	16-24-34	18-25-36	20-27-38
12" Oval Inlet	Airflow, CFM	275	375	475	575	675	775	875
	Total Pressure	.034	.063	.101	.148	.204	.269	.343
	Static Pressure	.025	.047	.075	.110	.152	.200	.255
	Noise Criteria	–	15	20	26	31	36	40
	Throw	7-13-25	12-17-28	14-21-32	17-24-34	20-26-37	22-28-39	24-30-42

4 Slot • 60" (1524) Long

6" Round Inlet	Airflow, CFM	100	160	200	265	315	370	425
	Total Pressure	.020	.051	.080	.140	.198	.273	.360
	Static Pressure	.004	.009	.015	.026	.037	.051	.067
	Noise Criteria	–	–	17	26	29	34	38
	Throw	1-3-10	1-3-11	2-4-13	3-7-17	5-11-19	6-12-20	8-14-22
8" Round Inlet	Airflow, CFM	200	250	300	350	400	450	500
	Total Pressure	.036	.057	.082	.111	.145	.184	.227
	Static Pressure	.016	.025	.036	.048	.063	.080	.099
	Noise Criteria	–	–	18	23	27	30	33
	Throw	2-4-13	3-7-17	4-9-18	6-12-20	7-13-21	10-16-23	12-18-25
10" Oval Inlet	Airflow, CFM	225	325	425	525	625	725	825
	Total Pressure	.023	.049	.084	.128	.181	.243	.315
	Static Pressure	.015	.031	.053	.081	.114	.154	.199
	Noise Criteria	–	15	20	27	33	37	41
	Throw	2-5-16	6-12-20	9-15-22	12-17-24	14-19-26	16-21-28	18-23-30
12" Oval Inlet	Airflow, CFM	300	400	500	600	700	800	900
	Total Pressure	.032	.057	.089	.128	.174	.228	.288
	Static Pressure	.023	.041	.063	.091	.124	.162	.206
	Noise Criteria	–	–	18	24	29	34	37
	Throw	4-10-19	7-13-21	11-17-24	13-18-26	16-20-28	17-21-30	18-23-32

See page C70 for performance data notes.

PERFORMANCE DATA NOTES:

Model Series 5700

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 are based on a room absorption of 10 dB, re 10^{-12} watts. Dash (-) in space denotes an Noise Criteria level less than 15.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Models 59ND(I),59NDR(I)

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. Tested with one-way fixed horizontal discharge in the direction of the inlet and center down-blow deflector full open. Straight flexible duct connection.
4. Noise Criteria [NC] values are based on a room absorption of 10 dB, re 10^{-12} watts. Dash (-) in space denotes an Noise Criteria level less than 15.
5. Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.