

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5850(I) • 1/2" (13) SLOT WIDTH

1 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	50	65	80	95	110	125	140
	Total Pressure	.120	.171	.228	.289	.356	.429	.506
	Static Pressure	.115	.164	.216	.274	.335	.401	.472
	Noise Criteria	19	25	29	33	37	40	42
	Throw	7-12-21	10-15-25	13-18-28	15-21-31	17-23-33	19-25-35	20-26-37
8" Round Inlet	Airflow, CFM	55	70	85	105	120	135	150
	Total Pressure	.133	.189	.251	.318	.390	.467	.550
	Static Pressure	.132	.187	.247	.312	.382	.457	.538
	Noise Criteria	18	24	28	33	36	39	41
	Throw	9-14-24	13-19-30	14-21-33	18-24-36	20-26-38	22-28-40	23-30-42

1 Slot • 36" (914) Long

6" Round Inlet	Airflow, CFM	55	75	90	110	125	145	160
	Total Pressure	.119	.169	.218	.272	.327	.385	.442
	Static Pressure	.114	.159	.204	.251	.299	.347	.397
	Noise Criteria	14	21	27	31	35	38	41
	Throw	6-10-20	9-14-24	11-17-28	13-20-31	15-22-33	16-24-35	17-26-37
8" Round Inlet	Airflow, CFM	65	85	100	120	135	155	170
	Total Pressure	.126	.165	.205	.245	.285	.328	.370
	Static Pressure	.123	.161	.199	.237	.276	.315	.354
	Noise Criteria	16	22	27	31	34	37	40
	Throw	8-13-23	11-16-27	13-19-30	15-22-33	17-24-35	18-25-37	20-27-39
10" Oval Inlet	Airflow, CFM	75	95	110	130	145	165	180
	Total Pressure	.132	.168	.205	.243	.281	.320	.359
	Static Pressure	.131	.166	.202	.239	.276	.314	.351
	Noise Criteria	16	21	26	30	33	36	39
	Throw	8-13-24	11-17-28	13-20-31	16-22-34	17-24-36	19-26-38	20-28-40

1 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	85	100	120	140	160	175	195
	Total Pressure	.074	.117	.157	.202	.248	.307	.361
	Static Pressure	.068	.107	.141	.178	.216	.267	.309
	Noise Criteria	23	30	33	36	38	40	43
	Throw	4-6-14	7-10-17	6-11-18	8-13-21	9-14-24	9-15-25	11-17-26
8" Round Inlet	Airflow, CFM	80	95	115	135	155	170	190
	Total Pressure	.091	.127	.165	.204	.244	.283	.324
	Static Pressure	.088	.123	.159	.195	.232	.270	.307
	Noise Criteria	16	22	27	31	35	37	40
	Throw	9-10-15	9-12-17	11-14-18	13-15-19	14-18-20	15-19-23	18-22-26
10" Oval Inlet	Airflow, CFM	110	125	145	165	185	200	220
	Total Pressure	.097	.129	.172	.209	.258	.299	.352
	Static Pressure	.095	.126	.169	.205	.252	.292	.343
	Noise Criteria	22	27	30	33	36	38	41
	Throw	10-11-14	11-12-16	12-13-18	12-14-20	13-15-21	14-17-23	15-18-25
12" Oval Inlet	Airflow, CFM	125	145	170	190	215	235	260
	Total Pressure	.107	.142	.192	.235	.292	.341	.406
	Static Pressure	.106	.141	.190	.232	.289	.337	.401
	Noise Criteria	21	25	30	33	36	38	41
	Throw	9-11-16	12-13-17	11-15-18	13-16-20	14-17-22	15-18-24	16-20-28

See page C32 for performance data notes.

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5850(I) • 1/2" (13) SLOT WIDTH

1 Slot • 60" (1524) Long

6" Round Inlet	Airflow, CFM	65	85	110	130	155	175	200
	Total Pressure	.058	.100	.154	.203	.274	.350	.436
	Static Pressure	.050	.087	.132	.173	.231	.295	.365
	Noise Criteria	16	22	27	29	33	35	38
	Throw	3-5-10	5-7-14	7-10-17	8-11-18	9-13-20	9-14-22	10-15-23
8" Round Inlet	Airflow, CFM	75	100	125	145	170	195	220
	Total Pressure	.061	.099	.145	.196	.256	.323	.397
	Static Pressure	.058	.094	.136	.185	.240	.302	.370
	Noise Criteria	19	24	27	31	34	37	39
	Throw	6-8-15	8-11-18	9-13-21	10-14-23	12-16-25	12-17-27	13-19-29
10" Oval Inlet	Airflow, CFM	85	110	135	160	185	210	235
	Total Pressure	.065	.105	.152	.207	.269	.339	.416
	Static Pressure	.063	.102	.148	.201	.261	.328	.403
	Noise Criteria	18	24	28	32	36	39	41
	Throw	5-7-15	7-11-19	9-13-22	11-15-24	12-17-26	13-19-28	14-20-30
12" Oval Inlet	Airflow, CFM	110	140	170	200	230	260	290
	Total Pressure	.058	.094	.136	.184	.239	.301	.370
	Static Pressure	.057	.091	.132	.179	.232	.292	.358
	Noise Criteria	24	28	32	35	37	40	42
	Throw	5-8-16	7-11-20	10-14-23	11-16-26	13-18-28	14-20-30	15-22-32

2 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	50	70	90	110	130	150	170
	Total Pressure	.086	.123	.162	.204	.250	.298	.348
	Static Pressure	.090	.127	.167	.209	.252	.296	.342
	Noise Criteria	15	23	28	33	36	40	43
	Throw	8-13-22	11-17-26	14-20-30	16-23-33	18-25-36	20-27-38	21-28-40
8" Round Inlet	Airflow, CFM	80	100	120	140	160	180	200
	Total Pressure	.053	.088	.130	.178	.235	.298	.368
	Static Pressure	.050	.082	.121	.166	.218	.276	.341
	Noise Criteria	-	15	23	24	34	36	41
	Throw	9-15-25	13-19-30	16-22-33	19-25-37	21-27-39	23-29-42	25-31-44
10" Oval Inlet	Airflow, CFM	85	110	135	160	185	210	220
	Total Pressure	.050	.081	.119	.164	.215	.273	.337
	Static Pressure	.048	.078	.115	.158	.207	.262	.324
	Noise Criteria	15	22	26	31	34	37	40
	Throw	9-15-26	13-19-30	16-21-33	18-24-35	20-26-37	22-27-39	23-29-41

2 Slot • 36" (914) Long

6" Round Inlet	Airflow, CFM	90	120	150	180	210	240	270
	Total Pressure	.059	.100	.150	.209	.277	.355	.443
	Static Pressure	.045	.074	.110	.152	.200	.254	.315
	Noise Criteria	11	19	25	30	34	37	40
	Throw	7-12-22	9-16-26	11-19-30	13-22-32	15-24-35	16-26-37	17-28-38
8" Round Inlet	Airflow, CFM	105	135	165	200	235	265	300
	Total Pressure	.049	.082	.122	.169	.223	.284	.353
	Static Pressure	.043	.071	.105	.145	.191	.244	.302
	Noise Criteria	-	19	25	30	34	38	41
	Throw	8-13-22	11-17-26	13-19-29	15-22-32	17-24-34	19-25-36	20-27-38
10" Oval Inlet	Airflow, CFM	115	150	185	225	260	295	330
	Total Pressure	.076	.125	.171	.227	.279	.323	.371
	Static Pressure	.073	.120	.163	.215	.263	.302	.344
	Noise Criteria	14	21	26	31	35	38	41
	Throw	10-15-26	12-18-29	14-20-32	16-22-34	18-24-36	19-25-37	20-27-39
12" Oval Inlet	Airflow, CFM	120	160	200	240	280	320	360
	Total Pressure	.093	.139	.188	.234	.273	.316	.347
	Static Pressure	.091	.136	.183	.226	.263	.302	.330
	Noise Criteria	17	23	28	32	35	38	40
	Throw	9-15-25	13-19-30	16-23-34	18-25-37	20-28-40	22-30-42	23-32-44

See page C32 for performance data notes.

PLENUM SLOT AND LIGHT TROFFER DIFFUSERS

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5850(I) • 1/2" (13) SLOT WIDTH

2 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	100	135	170	210	245	280	315
	Total Pressure	.061	.103	.155	.221	.294	.377	.470
	Static Pressure	.041	.068	.101	.141	.187	.240	.298
	Noise Criteria	17	24	28	33	36	39	42
	Throw	5-9-18	8-13-22	10-16-25	11-18-27	13-20-29	14-22-31	15-23-33
8" Round Inlet	Airflow, CFM	120	160	200	240	280	320	360
	Total Pressure	.045	.076	.113	.159	.211	.271	.338
	Static Pressure	.036	.060	.089	.125	.165	.211	.263
	Noise Criteria	12	19	25	30	35	38	42
	Throw	7-11-19	10-14-22	11-16-25	13-18-27	14-20-29	15-21-30	16-22-32
10" Oval Inlet	Airflow, CFM	135	180	225	265	310	355	400
	Total Pressure	.043	.072	.107	.149	.198	.254	.317
	Static Pressure	.038	.063	.094	.131	.173	.222	.276
	Noise Criteria	15	22	27	31	35	39	42
	Throw	8-13-20	11-15-23	13-16-26	15-18-28	16-20-30	17-20-31	18-22-33
12" Oval Inlet	Airflow, CFM	165	220	275	335	390	430	450
	Total Pressure	.043	.073	.109	.153	.204	.261	.326
	Static Pressure	.040	.066	.099	.138	.183	.235	.292
	Noise Criteria	20	28	30	34	37	41	43
	Throw	9-14-23	11-17-27	14-20-30	15-22-33	17-23-35	18-25-37	19-26-38

2 Slot • 60" (1524) Long

6" Round Inlet	Airflow, CFM	135	170	205	245	280	315	350
	Total Pressure	.118	.167	.227	.283	.346	.417	.487
	Static Pressure	.084	.109	.141	.162	.186	.211	.229
	Noise Criteria	17	22	27	30	33	36	41
	Throw	4-7-13	5-10-16	6-12-19	7-14-21	8-16-23	9-17-24	9-18-26
8" Round Inlet	Airflow, CFM	140	180	220	260	300	340	370
	Total Pressure	.053	.079	.112	.150	.194	.243	.298
	Static Pressure	.037	.055	.078	.104	.134	.168	.206
	Noise Criteria	15	21	26	30	33	37	40
	Throw	6-9-15	7-11-18	8-12-19	9-14-21	10-15-22	11-16-24	11-17-25
10" Oval Inlet	Airflow, CFM	150	200	250	310	350	400	440
	Total Pressure	.044	.067	.094	.127	.164	.206	.251
	Static Pressure	.035	.053	.074	.099	.128	.160	.196
	Noise Criteria	18	23	28	31	34	37	39
	Throw	7-10-18	9-13-22	11-16-25	13-18-28	14-20-30	15-22-32	16-23-34
12" Oval Inlet	Airflow, CFM	190	240	290	340	390	420	520
	Total Pressure	.039	.059	.083	.111	.144	.181	.229
	Static Pressure	.034	.051	.072	.096	.124	.155	.190
	Noise Criteria	22	26	30	32	35	37	38
	Throw	7-11-19	10-16-25	12-19-29	14-22-33	16-24-36	17-26-39	18-28-41

See page C32 for performance data notes.

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5850(I) • 1/2" (13) SLOT WIDTH

3 Slot • 24" (1219) Long

6" Round Inlet	Airflow, CFM	85	115	140	170	195	225	250
	Total Pressure	.108	.155	.199	.253	.301	.362	.417
	Static Pressure	.095	.132	.164	.202	.234	.273	.307
	Noise Criteria	19	25	30	34	37	40	42
	Throw	10-16-25	13-19-28	15-21-30	17-23-32	18-24-33	19-26-35	20-27-36
8" Round Inlet	Airflow, CFM	100	130	160	190	220	240	265
	Total Pressure	.084	.137	.187	.235	.289	.320	.368
	Static Pressure	.079	.128	.173	.215	.263	.289	.330
	Noise Criteria	15	22	27	31	35	37	40
	Throw	11-17-26	14-20-30	17-22-32	19-24-34	21-26-36	22-27-37	23-28-39
10" Oval Inlet	Airflow, CFM	105	135	160	190	215	245	270
	Total Pressure	.070	.116	.160	.213	.261	.303	.348
	Static Pressure	.068	.112	.154	.204	.250	.289	.330
	Noise Criteria	13	20	25	30	34	37	40
	Throw	11-16-26	14-19-29	16-21-32	18-23-34	20-25-36	22-27-37	23-28-39

3 Slot • 36" (914) Long

6" Round Inlet	Airflow, CFM	105	140	175	210	245	280	315
	Total Pressure	.100	.107	.159	.222	.293	.373	.463
	Static Pressure	.044	.072	.105	.144	.187	.235	.288
	Noise Criteria	14	21	27	31	35	38	41
	Throw	6-10-20	9-15-25	12-18-29	14-21-32	16-24-34	17-26-36	18-28-38
8" Round Inlet	Airflow, CFM	115	155	195	235	275	315	355
	Total Pressure	.038	.064	.096	.135	.179	.230	.288
	Static Pressure	.031	.051	.075	.105	.138	.176	.219
	Noise Criteria	8	17	23	29	33	37	41
	Throw	6-10-19	9-14-24	12-17-27	14-20-30	16-22-33	18-24-35	19-26-37
10" Oval Inlet	Airflow, CFM	135	180	225	265	310	355	400
	Total Pressure	.045	.074	.107	.141	.184	.230	.282
	Static Pressure	.041	.066	.095	.124	.161	.200	.243
	Noise Criteria	17	24	28	32	35	38	41
	Throw	11-17-28	14-20-31	16-22-34	18-24-36	19-26-38	20-27-40	21-29-41
12" Oval Inlet	Airflow, CFM	145	195	245	290	340	390	440
	Total Pressure	.045	.075	.112	.156	.206	.264	.328
	Static Pressure	.042	.070	.104	.144	.191	.243	.302
	Noise Criteria	19	24	28	31	34	37	39
	Throw	10-15-26	13-19-30	16-23-34	19-25-37	21-27-39	22-29-41	24-31-43

3 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	130	180	200	255	290	340	375
	Total Pressure	.076	.133	.200	.286	.375	.482	.588
	Static Pressure	.045	.075	.110	.151	.198	.251	.309
	Noise Criteria	13	21	26	31	35	38	40
	Throw	4-8-17	7-13-22	9-16-25	12-19-28	13-21-29	15-23-31	16-24-33
8" Round Inlet	Airflow, CFM	155	200	245	290	335	380	425
	Total Pressure	.046	.075	.111	.154	.203	.258	.320
	Static Pressure	.032	.053	.079	.108	.141	.179	.221
	Noise Criteria	10	18	24	30	34	38	41
	Throw	7-11-20	9-14-24	12-17-27	13-20-29	15-21-31	16-23-33	18-25-35
10" Oval Inlet	Airflow, CFM	175	230	290	345	405	450	500
	Total Pressure	.039	.067	.102	.144	.193	.250	.313
	Static Pressure	.030	.052	.079	.112	.149	.193	.241
	Noise Criteria	16	22	28	32	35	38	40
	Throw	7-12-22	10-16-26	13-19-30	15-21-32	17-23-35	18-25-37	19-26-37
12" Oval Inlet	Airflow, CFM	185	250	315	380	445	510	575
	Total Pressure	.033	.059	.093	.135	.184	.241	.306
	Static Pressure	.028	.051	.080	.115	.157	.206	.262
	Noise Criteria	8	17	24	29	34	38	41
	Throw	9-13-22	12-17-26	15-20-30	17-22-32	19-24-35	21-26-37	22-28-38

See page C32 for performance data notes.

PLENUM SLOT AND LIGHT TROFFER DIFFUSERS

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5850(I) • 1/2" (13) SLOT WIDTH

3 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	180	235	285	340	390	445	495
	Total Pressure	.053	.083	.118	.162	.211	.268	.330
	Static Pressure	.035	.053	.074	.099	.128	.160	.196
	Noise Criteria	13	20	25	30	33	36	39
	Throw	3-5-12	5-9-17	7-12-20	9-14-23	10-16-25	11-18-28	12-19-29
10" Oval Inlet	Airflow, CFM	200	265	325	385	445	510	580
	Total Pressure	.044	.071	.102	.140	.184	.235	.292
	Static Pressure	.032	.050	.071	.096	.125	.158	.194
	Noise Criteria	15	19	26	30	33	36	39
	Throw	5-8-16	8-12-21	10-15-25	12-17-28	14-19-31	16-21-33	17-22-35
12" Oval Inlet	Airflow, CFM	220	290	360	430	500	570	665
	Total Pressure	.036	.058	.086	.119	.157	.201	.254
	Static Pressure	.030	.047	.068	.093	.122	.155	.192
	Noise Criteria	15	21	26	30	34	37	39
	Throw	6-10-18	9-13-23	11-16-26	13-19-29	15-21-32	16-23-34	18-24-36

4 Slot • 24" (1219) Long

6" Round Inlet	Airflow, CFM	100	125	155	180	205	215	240
	Total Pressure	.100	.127	.178	.226	.279	.302	.361
	Static Pressure	.071	.099	.136	.169	.205	.220	.259
	Noise Criteria	18	24	29	33	36	37	40
	Throw	10-15-25	13-18-28	15-21-31	17-23-33	18-25-35	18-26-35	20-27-37
8" Round Inlet	Airflow, CFM	110	145	175	205	230	260	280
	Total Pressure	.100	.115	.154	.195	.232	.280	.314
	Static Pressure	.070	.104	.137	.172	.203	.243	.271
	Noise Criteria	18	25	30	34	37	40	42
	Throw	13-18-28	16-21-32	18-24-34	19-26-36	20-27-37	22-28-39	22-29-40
10" Oval Inlet	Airflow, CFM	125	155	190	225	260	290	325
	Total Pressure	.100	.115	.145	.174	.204	.231	.263
	Static Pressure	.087	.109	.136	.162	.188	.211	.238
	Noise Criteria	20	24	29	32	35	37	40
	Throw	14-19-29	17-22-32	19-24-34	21-26-37	22-28-38	23-29-40	25-31-41

4 Slot • 36" (914) Long

6" Round Inlet	Airflow, CFM	115	155	195	235	275	315	355
	Total Pressure	.064	.109	.164	.231	.307	.393	.490
	Static Pressure	.040	.066	.097	.132	.172	.216	.265
	Noise Criteria	12	19	25	30	34	37	40
	Throw	6-10-20	9-15-25	12-18-28	14-21-31	16-24-33	17-26-35	19-28-37
8" Round Inlet	Airflow, CFM	125	170	210	255	295	340	380
	Total Pressure	.038	.064	.096	.135	.179	.231	.287
	Static Pressure	.029	.048	.072	.099	.131	.168	.208
	Noise Criteria	10	18	24	29	33	37	40
	Throw	8-12-22	11-16-26	13-19-30	15-22-32	17-24-34	19-26-37	20-28-38
10" Oval Inlet	Airflow, CFM	145	195	240	290	335	385	430
	Total Pressure	.044	.072	.104	.138	.180	.226	.276
	Static Pressure	.039	.063	.091	.118	.153	.190	.231
	Noise Criteria	12	19	25	29	33	36	40
	Throw	9-14-25	12-17-28	14-20-31	16-22-34	18-24-36	19-26-38	20-27-39
12" Oval Inlet	Airflow, CFM	170	220	270	320	370	420	470
	Total Pressure	.044	.073	.109	.151	.200	.255	.317
	Static Pressure	.040	.067	.099	.137	.181	.231	.287
	Noise Criteria	17	23	28	32	35	38	40
	Throw	10-16-26	14-20-31	17-23-35	20-26-38	22-29-41	24-31-43	26-33-45

See page C32 for performance data notes.

PERFORMANCE DATA • MODEL SERIES 5800

MODEL: 5850(I) • 1/2" (13) SLOT WIDTH

4 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	155	200	245	290	335	380	425
	Total Pressure	.086	.142	.209	.287	.377	.478	.591
	Static Pressure	.044	.070	.102	.137	.177	.220	.269
	Noise Criteria	13	20	25	29	33	36	39
	Throw	5-10-19	8-14-22	10-17-24	12-19-27	14-21-28	15-23-30	17-24-31
8" Round Inlet	Airflow, CFM	180	230	280	330	380	430	480
	Total Pressure	.047	.076	.110	.151	.197	.248	.305
	Static Pressure	.029	.047	.068	.091	.118	.147	.179
	Noise Criteria	11	18	24	29	33	37	40
	Throw	4-8-17	6-11-21	8-14-24	10-16-27	11-18-29	12-19-31	13-21-33
10" Oval Inlet	Airflow, CFM	195	255	310	370	420	480	520
	Total Pressure	.040	.064	.093	.126	.164	.206	.253
	Static Pressure	.030	.049	.071	.096	.124	.154	.188
	Noise Criteria	12	20	26	31	35	39	41
	Throw	7-11-20	10-15-25	13-19-29	15-21-33	17-23-35	19-26-38	20-27-39
12" Oval Inlet	Airflow, CFM	225	290	355	420	485	550	615
	Total Pressure	.039	.063	.091	.124	.161	.202	.248
	Static Pressure	.032	.052	.074	.100	.129	.162	.197
	Noise Criteria	15	21	26	31	34	37	40
	Throw	8-13-23	12-18-28	15-21-32	18-24-36	20-27-39	22-29-41	24-31-44

4 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	200	260	320	380	440	500	560
	Total Pressure	.046	.078	.118	.167	.224	.289	.362
	Static Pressure	.025	.041	.062	.088	.118	.152	.191
	Noise Criteria	17	21	24	29	34	38	42
	Throw	3-7-13	6-10-17	8-13-21	10-16-24	11-18-26	13-20-28	14-21-30
10" Oval Inlet	Airflow, CFM	225	300	375	450	525	600	675
	Total Pressure	.036	.062	.094	.134	.181	.234	.295
	Static Pressure	.024	.040	.061	.085	.114	.148	.185
	Noise Criteria	14	21	26	31	35	38	41
	Throw	6-9-18	8-13-22	10-15-25	12-18-28	13-19-30	14-21-32	15-22-33
12" Oval Inlet	Airflow, CFM	250	340	430	520	610	700	790
	Total Pressure	.034	.058	.089	.126	.171	.221	.279
	Static Pressure	.025	.042	.064	.090	.120	.155	.195
	Noise Criteria	12	16	23	28	33	37	40
	Throw	6-10-18	9-14-22	12-16-25	13-19-27	15-21-29	16-22-31	18-24-32

Performance Data Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total and Static Pressure are in in. w.g..
3. 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.
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. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.