

## PERFORMANCE DATA • MODEL SERIES 5700

### MODEL: 5715(I) • 1 1/2" (38) SLOT WIDTH

#### 1 Slot • 24" (610) Long

	Airflow, CFM	30	50	70	90	110	130	150
<b>6" Round Inlet</b>	Total Pressure	.014	.038	.075	.124	.185	.258	.344
	Static Pressure	.012	.034	.067	.111	.166	.232	.308
	Noise Criteria	–	–	–	22	28	33	38
	Throw	2-3-18	4-9-15	6-10-16	10-14-20	11-15-22	12-16-24	14-17-25
<b>8" Round Inlet</b>	Airflow, CFM	<b>50</b>	<b>70</b>	<b>90</b>	<b>110</b>	<b>130</b>	<b>150</b>	<b>170</b>
	Total Pressure	.028	.054	.089	.133	.186	.248	.318
	Static Pressure	.026	.051	.085	.127	.177	.236	.303
	Noise Criteria	–	16	17	23	29	33	37
<b>10" Round Inlet</b>	Airflow, CFM	<b>70</b>	<b>90</b>	<b>110</b>	<b>130</b>	<b>150</b>	<b>170</b>	<b>190</b>
	Total Pressure	.040	.067	.100	.140	.186	.239	.298
	Static Pressure	.039	.065	.097	.133	.181	.232	.290
	Noise Criteria	–	15	20	26	30	34	38
<b>Throw</b>		6-10-16	10-14-20	11-15-22	12-16-24	14-17-25	16-19-27	18-20-28

#### 1 Slot • 48" (1219) Long

	Airflow, CFM	75	100	125	150	175	200	225
<b>6" Round Inlet</b>	Total Pressure	.031	.055	.086	.124	.169	.220	.279
	Static Pressure	.022	.039	.061	.087	.119	.155	.196
	Noise Criteria	–	–	15	23	27	32	36
	Throw	3-6-15	5-11-20	8-13-21	10-15-24	12-18-25	14-20-28	15-21-29
<b>8" Round Inlet</b>	Airflow, CFM	<b>100</b>	<b>130</b>	<b>160</b>	<b>190</b>	<b>220</b>	<b>250</b>	<b>280</b>
	Total Pressure	.034	.057	.087	.122	.164	.211	.265
	Static Pressure	.029	.048	.073	.103	.139	.179	.224
	Noise Criteria	–	–	19	24	29	33	37
<b>10" Oval Inlet</b>	Airflow, CFM	<b>120</b>	<b>150</b>	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>
	Total Pressure	.035	.055	.080	.109	.142	.180	.222
	Static Pressure	.032	.051	.073	.099	.130	.164	.203
	Noise Criteria	–	–	19	24	28	32	35
<b>12" Oval Inlet</b>	Airflow, CFM	<b>140</b>	<b>180</b>	<b>220</b>	<b>260</b>	<b>300</b>	<b>340</b>	<b>380</b>
	Total Pressure	.036	.059	.088	.123	.164	.211	.264
	Static Pressure	.034	.056	.083	.116	.155	.199	.249
	Noise Criteria	–	16	22	28	32	36	40
<b>Throw</b>		9-14-23	12-18-26	14-20-29	18-24-34	19-26-36	20-27-38	21-28-40

#### 1 Slot • 60" (1524) Long

	Airflow, CFM	100	130	160	190	220	250	280
<b>6" Round Inlet</b>	Total Pressure	.044	.075	.113	.159	.214	.276	.346
	Static Pressure	.028	.047	.072	.101	.135	.175	.219
	Noise Criteria	–	–	20	25	30	32	38
	Throw	6-10-16	8-11-18	10-14-20	12-15-21	13-16-23	14-17-25	15-18-26
<b>8" Round Inlet</b>	Airflow, CFM	<b>125</b>	<b>160</b>	<b>195</b>	<b>230</b>	<b>265</b>	<b>300</b>	<b>335</b>
	Total Pressure	.041	.067	.099	.138	.183	.235	.293
	Static Pressure	.033	.054	.080	.111	.148	.189	.236
	Noise Criteria	–	–	20	25	30	34	38
<b>10" Oval Inlet</b>	Airflow, CFM	<b>140</b>	<b>180</b>	<b>220</b>	<b>260</b>	<b>300</b>	<b>340</b>	<b>380</b>
	Total Pressure	.038	.063	.094	.131	.174	.224	.280
	Static Pressure	.033	.055	.082	.114	.152	.195	.244
	Noise Criteria	–	–	20	25	30	34	37
<b>12" Oval Inlet</b>	Airflow, CFM	<b>180</b>	<b>230</b>	<b>280</b>	<b>330</b>	<b>380</b>	<b>430</b>	<b>480</b>
	Total Pressure	.047	.077	.114	.158	.210	.269	.335
	Static Pressure	.044	.071	.105	.146	.194	.248	.309
	Noise Criteria	–	18	24	30	34	38	42
<b>Throw</b>		12-15-21	14-17-24	15-18-26	16-20-28	18-21-30	19-23-32	20-24-34

See page C70 for performance data notes.

PLENUM SLOT AND LIGHT TROFFER DIFFUSERS

## PERFORMANCE DATA • MODEL SERIES 5700

### MODEL: 5715(I) • 1 1/2" (38) SLOT WIDTH

#### 2 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>90</b>	<b>120</b>	<b>150</b>	<b>180</b>	<b>210</b>	<b>240</b>
	Total Pressure	.021	.046	.082	.129	.185	.252	.330
	Static Pressure	.015	.033	.059	.092	.133	.181	.236
	Noise Criteria	–	–	15	23	28	33	38
	Throw	2-4-13	5-10-20	8-13-23	11-17-28	13-19-27	15-21-30	18-29-32
<b>8" Round Inlet</b>	Airflow, CFM	<b>90</b>	<b>125</b>	<b>160</b>	<b>195</b>	<b>230</b>	<b>265</b>	<b>300</b>
	Total Pressure	.029	.056	.091	.136	.189	.251	.322
	Static Pressure	.025	.048	.079	.117	.162	.215	.276
	Noise Criteria	–	–	19	25	30	35	39
	Throw	4-9-17	9-13-23	11-17-25	13-20-28	17-22-32	19-25-34	23-29-38
<b>10" Round Inlet</b>	Airflow, CFM	<b>125</b>	<b>160</b>	<b>195</b>	<b>230</b>	<b>265</b>	<b>300</b>	<b>335</b>
	Total Pressure	.053	.087	.129	.179	.238	.305	.381
	Static Pressure	.050	.081	.121	.168	.223	.286	.357
	Noise Criteria	–	16	21	26	31	35	39
	Throw	9-13-23	11-17-25	13-20-28	17-22-32	19-25-34	23-29-38	24-30-40

#### 2 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>110</b>	<b>150</b>	<b>190</b>	<b>230</b>	<b>270</b>	<b>310</b>	<b>350</b>
	Total Pressure	.043	.081	.129	.190	.261	.345	.439
	Static Pressure	.024	.044	.071	.104	.143	.189	.241
	Noise Criteria	–	–	16	22	27	31	36
	Throw	3-7-17	4-9-21	8-14-28	11-18-31	13-20-33	16-23-36	18-27-38
<b>8" Round Inlet</b>	Airflow, CFM	<b>180</b>	<b>225</b>	<b>270</b>	<b>315</b>	<b>360</b>	<b>405</b>	<b>450</b>
	Total Pressure	.060	.093	.135	.183	.239	.303	.374
	Static Pressure	.045	.070	.101	.137	.179	.226	.280
	Noise Criteria	–	–	20	26	29	34	37
	Throw	7-13-27	11-18-31	13-20-33	16-23-36	19-28-39	20-28-40	23-30-42
<b>10" Oval Inlet</b>	Airflow, CFM	<b>230</b>	<b>280</b>	<b>330</b>	<b>380</b>	<b>430</b>	<b>480</b>	<b>530</b>
	Total Pressure	.064	.095	.132	.175	.224	.280	.341
	Static Pressure	.051	.076	.106	.140	.180	.224	.273
	Noise Criteria	–	17	22	27	31	34	37
	Throw	11-18-31	14-21-34	17-26-38	19-28-39	21-29-41	24-31-43	26-32-45
<b>12" Oval Inlet</b>	Airflow, CFM	<b>220</b>	<b>280</b>	<b>340</b>	<b>400</b>	<b>460</b>	<b>520</b>	<b>580</b>
	Total Pressure	.039	.063	.093	.128	.170	.217	.270
	Static Pressure	.032	.052	.077	.107	.141	.180	.224
	Noise Criteria	–	–	20	25	29	33	37
	Throw	9-16-30	14-21-34	17-26-38	20-28-40	23-30-42	26-32-45	29-34-48

#### 2 Slot • 60" (1524) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>135</b>	<b>180</b>	<b>225</b>	<b>270</b>	<b>315</b>	<b>360</b>	<b>405</b>
	Total Pressure	.060	.107	.167	.241	.328	.428	.542
	Static Pressure	.031	.055	.085	.123	.167	.219	.277
	Noise Criteria	–	–	17	23	28	33	40
	Throw	3-7-17	4-8-20	7-13-27	11-17-30	12-19-32	14-22-35	17-26-38
<b>8" Round Inlet</b>	Airflow, CFM	<b>175</b>	<b>230</b>	<b>285</b>	<b>340</b>	<b>395</b>	<b>450</b>	<b>505</b>
	Total Pressure	.050	.086	.132	.188	.254	.329	.415
	Static Pressure	.034	.059	.090	.128	.173	.225	.283
	Noise Criteria	–	–	18	23	27	32	36
	Throw	3-7-20	7-13-27	11-18-31	13-20-33	16-23-36	19-28-39	20-29-41
<b>10" Oval Inlet</b>	Airflow, CFM	<b>215</b>	<b>280</b>	<b>345</b>	<b>410</b>	<b>475</b>	<b>540</b>	<b>585</b>
	Total Pressure	.051	.087	.131	.185	.249	.322	.378
	Static Pressure	.040	.068	.103	.145	.195	.252	.296
	Noise Criteria	–	–	19	25	29	33	36
	Throw	7-14-28	11-18-31	14-21-34	17-26-38	19-28-39	21-29-41	23-30-42
<b>12" Oval Inlet</b>	Airflow, CFM	<b>295</b>	<b>350</b>	<b>425</b>	<b>500</b>	<b>575</b>	<b>650</b>	<b>725</b>
	Total Pressure	.054	.075	.111	.154	.203	.260	.323
	Static Pressure	.045	.063	.093	.128	.170	.217	.270
	Noise Criteria	–	15	22	27	32	35	39
	Throw	9-16-30	14-21-34	17-26-38	20-28-40	23-30-42	26-32-45	27-33-46

See page C70 for performance data notes.

10-29-20

## PERFORMANCE DATA • MODEL SERIES 5700

### MODEL: 5715(I) • 1 1/2" (38) SLOT WIDTH

#### 3 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>110</b>	<b>140</b>	<b>170</b>	<b>200</b>	<b>230</b>	<b>260</b>	<b>290</b>
	Total Pressure	.043	.070	.103	.143	.189	.242	.301
	Static Pressure	.025	.041	.061	.084	.111	.142	.176
	Noise Criteria	–	15	21	26	31	35	40
	Throw	2-5-15	4-9-19	6-11-23	8-13-27	10-15-31	12-17-34	14-19-37
<b>8" Round Inlet</b>	Airflow, CFM	<b>150</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>	<b>400</b>	<b>450</b>
	Total Pressure	.042	.074	.115	.166	.226	.295	.374
	Static Pressure	.029	.052	.081	.116	.158	.206	.261
	Noise Criteria	–	15	22	28	33	37	41
	Throw	4-10-20	7-13-23	10-16-26	13-19-30	16-22-33	19-25-36	22-28-39
<b>10" Round Inlet</b>	Airflow, CFM	<b>225</b>	<b>275</b>	<b>325</b>	<b>375</b>	<b>425</b>	<b>475</b>	<b>525</b>
	Total Pressure	.057	.086	.120	.159	.204	.255	.312
	Static Pressure	.046	.068	.095	.127	.163	.204	.249
	Noise Criteria	–	17	23	28	32	36	40
	Throw	9-15-30	12-18-33	15-21-36	18-27-42	21-31-45	23-34-48	26-38-51

#### 3 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>120</b>	<b>150</b>	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>
	Total Pressure	.030	.047	.068	.092	.120	.152	.188
	Static Pressure	.024	.038	.055	.075	.098	.124	.153
	Noise Criteria	–	–	–	20	24	28	36
	Throw	3-5-16	4-8-20	6-13-25	8-14-26	10-16-28	13-19-31	14-20-32
<b>8" Round Inlet</b>	Airflow, CFM	<b>180</b>	<b>235</b>	<b>290</b>	<b>345</b>	<b>400</b>	<b>455</b>	<b>510</b>
	Total Pressure	.046	.078	.118	.167	.225	.291	.366
	Static Pressure	.029	.049	.075	.106	.143	.185	.232
	Noise Criteria	–	–	18	24	28	33	36
	Throw	6-11-23	11-15-28	14-19-31	18-23-35	19-25-38	22-27-40	29-29-41
<b>10" Oval Inlet</b>	Airflow, CFM	<b>270</b>	<b>330</b>	<b>390</b>	<b>450</b>	<b>510</b>	<b>570</b>	<b>630</b>
	Total Pressure	.045	.067	.094	.125	.160	.200	.244
	Static Pressure	.030	.044	.062	.082	.106	.132	.161
	Noise Criteria	–	–	19	23	27	31	35
	Throw	14-21-34	16-24-36	19-27-37	22-28-38	24-29-41	26-31-44	27-32-46
<b>12" Oval Inlet</b>	Airflow, CFM	<b>275</b>	<b>350</b>	<b>425</b>	<b>500</b>	<b>575</b>	<b>650</b>	<b>725</b>
	Total Pressure	.030	.048	.070	.098	.129	.165	.205
	Static Pressure	.022	.035	.052	.072	.096	.122	.152
	Noise Criteria	–	–	15	20	25	29	32
	Throw	14-21-34	18-23-35	21-27-37	24-29-41	26-31-44	27-33-46	28-35-48

#### 3 Slot • 60" (1524) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>170</b>	<b>200</b>	<b>230</b>	<b>260</b>	<b>290</b>	<b>320</b>	<b>350</b>
	Total Pressure	.053	.073	.096	.123	.153	.186	.223
	Static Pressure	.040	.055	.073	.094	.117	.142	.170
	Noise Criteria	–	15	21	25	30	35	40
	Throw	1-3-10	3-5-12	5-7-14	7-9-16	9-11-18	11-13-20	13-15-22
<b>8" Round Inlet</b>	Airflow, CFM	<b>230</b>	<b>280</b>	<b>330</b>	<b>380</b>	<b>430</b>	<b>480</b>	<b>530</b>
	Total Pressure	.046	.068	.095	.125	.161	.200	.244
	Static Pressure	.034	.051	.071	.094	.120	.149	.182
	Noise Criteria	–	15	20	24	28	32	36
	Throw	2-5-15	3-7-18	4-10-19	6-12-21	7-14-22	9-15-23	11-16-24
<b>10" Oval Inlet</b>	Airflow, CFM	<b>300</b>	<b>375</b>	<b>450</b>	<b>525</b>	<b>600</b>	<b>675</b>	<b>750</b>
	Total Pressure	.046	.072	.104	.141	.184	.233	.288
	Static Pressure	.034	.053	.076	.104	.136	.172	.212
	Noise Criteria	–	16	21	26	31	34	38
	Throw	4-8-18	6-12-21	8-14-23	11-17-24	13-18-26	14-19-28	16-21-29
<b>12" Oval Inlet</b>	Airflow, CFM	<b>375</b>	<b>475</b>	<b>575</b>	<b>675</b>	<b>775</b>	<b>875</b>	<b>975</b>
	Total Pressure	.046	.074	.108	.149	.197	.251	.312
	Static Pressure	.034	.054	.079	.109	.143	.183	.227
	Noise Criteria	–	15	21	26	31	36	40
	Throw	6-13-21	9-15-23	12-18-25	14-19-28	16-21-30	18-22-31	19-23-33

See page C70 for performance data notes.

## PERFORMANCE DATA • MODEL SERIES 5700

### MODEL: 5715(I) • 1 1/2" (38) SLOT WIDTH

#### 4 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>120</b>	<b>150</b>	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>
	Total Pressure	.041	.064	.093	.126	.165	.209	.258
	Static Pressure	.018	.028	.040	.055	.072	.091	.112
	Noise Criteria	–	15	20	26	31	35	39
	Throw	2-4-14	3-7-18	4-10-21	6-12-25	8-14-28	10-16-33	12-17-37
<b>8" Round Inlet</b>	Airflow, CFM	<b>175</b>	<b>225</b>	<b>275</b>	<b>325</b>	<b>375</b>	<b>425</b>	<b>475</b>
	Total Pressure	.044	.073	.109	.152	.203	.260	.325
	Static Pressure	.032	.052	.078	.109	.145	.186	.232
	Noise Criteria	–	15	21	27	31	35	40
	Throw	4-9-21	7-13-27	10-16-33	13-19-38	15-22-40	17-25-43	19-28-45
<b>10" Oval Inlet</b>	Airflow, CFM	<b>225</b>	<b>300</b>	<b>375</b>	<b>450</b>	<b>525</b>	<b>600</b>	<b>675</b>
	Total Pressure	.044	.078	.121	.175	.238	.310	.393
	Static Pressure	.033	.059	.092	.133	.181	.236	.299
	Noise Criteria	–	16	23	29	34	38	42
	Throw	7-13-27	12-18-36	15-22-40	18-27-44	21-31-48	24-36-51	27-38-54

#### 4 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>160</b>	<b>200</b>	<b>240</b>	<b>280</b>	<b>320</b>	<b>360</b>	<b>400</b>
	Total Pressure	.036	.056	.080	.109	.143	.181	.223
	Static Pressure	.029	.045	.065	.089	.116	.147	.181
	Noise Criteria	–	15	21	26	31	36	41
	Throw	1-2-10	2-4-14	3-5-17	4-7-19	5-8-22	6-9-25	7-10-28
<b>8" Round Inlet</b>	Airflow, CFM	<b>230</b>	<b>290</b>	<b>350</b>	<b>410</b>	<b>470</b>	<b>530</b>	<b>590</b>
	Total Pressure	.042	.067	.097	.133	.175	.223	.276
	Static Pressure	.031	.049	.071	.098	.128	.163	.202
	Noise Criteria	–	15	21	27	32	36	40
	Throw	2-5-16	4-8-20	5-12-24	7-14-28	9-16-30	13-19-30	15-21-32
<b>10" Oval Inlet</b>	Airflow, CFM	<b>320</b>	<b>400</b>	<b>480</b>	<b>560</b>	<b>640</b>	<b>720</b>	<b>800</b>
	Total Pressure	.045	.071	.102	.139	.182	.230	.284
	Static Pressure	.038	.060	.086	.117	.153	.194	.239
	Noise Criteria	–	16	22	27	31	36	40
	Throw	4-10-22	7-14-28	10-17-31	13-20-33	15-22-35	17-25-38	19-28-40
<b>12" Oval Inlet</b>	Airflow, CFM	<b>400</b>	<b>500</b>	<b>600</b>	<b>700</b>	<b>800</b>	<b>900</b>	<b>1000</b>
	Total Pressure	.051	.080	.115	.156	.204	.258	.318
	Static Pressure	.038	.060	.086	.117	.153	.193	.239
	Noise Criteria	–	16	22	27	32	36	40
	Throw	7-14-28	10-17-31	14-21-34	16-24-37	19-28-40	21-30-42	23-31-44

#### 4 Slot • 60" (1524) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>
	Total Pressure	.060	.078	.099	.122	.148	.176	.206
	Static Pressure	.049	.064	.080	.099	.120	.143	.168
	Noise Criteria	15	18	22	25	26	31	33
	Throw	1-3-11	2-3-13	2-4-15	3-5-17	4-6-19	5-7-21	6-8-22
<b>8" Round Inlet</b>	Airflow, CFM	<b>320</b>	<b>370</b>	<b>420</b>	<b>470</b>	<b>520</b>	<b>570</b>	<b>620</b>
	Total Pressure	.066	.089	.114	.143	.175	.211	.249
	Static Pressure	.054	.072	.093	.116	.142	.171	.202
	Noise Criteria	15	21	24	28	32	34	37
	Throw	3-6-18	4-9-21	5-11-22	6-13-23	7-15-24	8-17-25	9-19-27
<b>10" Oval Inlet</b>	Airflow, CFM	<b>340</b>	<b>420</b>	<b>500</b>	<b>580</b>	<b>660</b>	<b>740</b>	<b>820</b>
	Total Pressure	.044	.067	.095	.128	.166	.208	.256
	Static Pressure	.037	.056	.079	.107	.138	.173	.213
	Noise Criteria	–	15	20	25	30	34	39
	Throw	3-7-19	5-11-22	7-14-24	9-16-26	12-18-27	14-20-29	16-22-31
<b>12" Oval Inlet</b>	Airflow, CFM	<b>525</b>	<b>625</b>	<b>725</b>	<b>825</b>	<b>925</b>	<b>1025</b>	<b>1125</b>
	Total Pressure	.067	.095	.128	.165	.208	.255	.307
	Static Pressure	.063	.090	.120	.156	.196	.241	.290
	Noise Criteria	15	20	25	29	33	36	40
	Throw	7-15-24	10-17-27	13-20-29	15-22-30	17-23-32	19-24-34	21-25-36

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.