

## LINEAR SLOT DIFFUSER PLENUMS

- ADAPTORS FOR MODEL SERIES 5000 LINEAR SLOT CEILING DIFFUSERS

### Standard Models:

5350(I) 1/2" (13) Slot

5375(I) 3/4" (19) Slot

5310(I) 1" (25) Slot

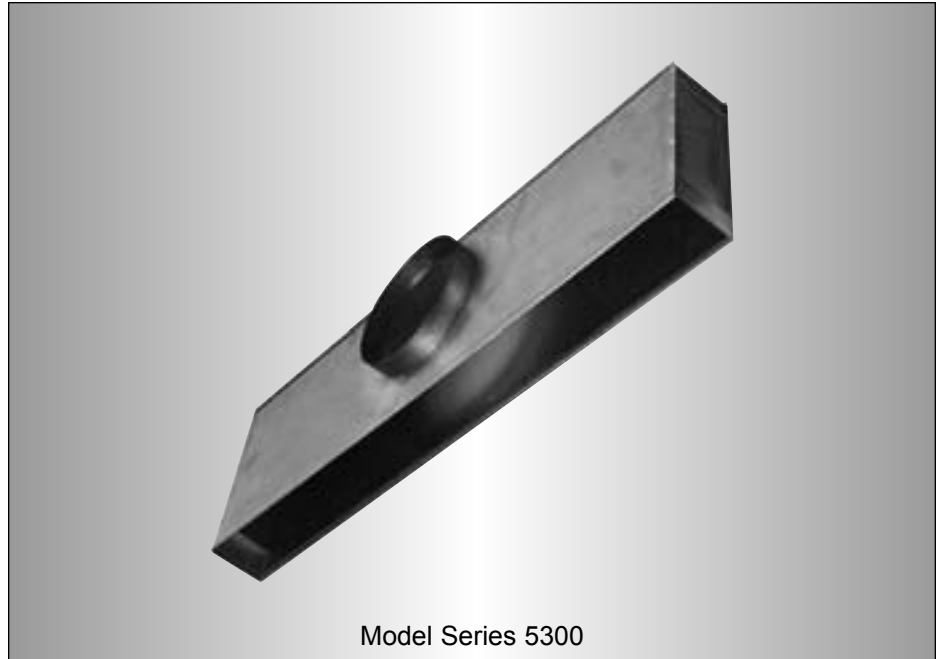
### Modified Performance Models:

5350(I)MP 1/2" (13) Slot

5375(I)MP 3/4" (19) Slot

5310(I)MP 1" (25) Slot

- Suffix 'I' adds internal insulation



B

LINEAR DIFFUSERS AND BAR GRILLES

The **Nailor Series 5300 Diffuser Plenums** are designed specifically to fit the **Series 5000 'Ice Tong' Linear Slot Diffusers**.

They have been designed for flexible duct connection with a model to suit each of the various frame/sub-frame **5000 Series** combinations available. For drywall ceiling mounted applications the plenums are installed separately. Unless there is access to the ceiling space, the plenum is intended to be installed during the drywall installation. Most applications of this type utilize concealed mounting straps on the **5000 Series**. The plenums may be supplied with a hemmed leg into which the mounting straps snap or they locate in extrusion slots on sub-frames as the linear is drawn up to the plenum from below the ceiling.

The **Series 5300 Plenums** save on-site fabrication and field labor. When room lay-out changes occur, the plenums can be simply relocated to satisfy the re-arrangement of air distribution requirements.

The **Series 5300 Plenums** maximize the **Series 5000's** performance. The airflow discharge maintains a horizontal pattern that is close and tight to the ceiling throughout the full range of cataloged air volumes. Excellent for variable air volume applications.

The **Series 5300MP Modified Performance Plenums** are fabricated in a similar manner to the **Series 5300** with the addition of internal sloping baffles for reduced throw and increased spread of the air pattern.

### FEATURES:

- Standard nominal lengths are 20", 24", 30", 36", 48" and 60" (500, 600, 750, 900, 1200 and 1500 mm).
- Widths available to fit **Model Series 5000** and **5000R** with 1, 2, 3 or 4 slots.

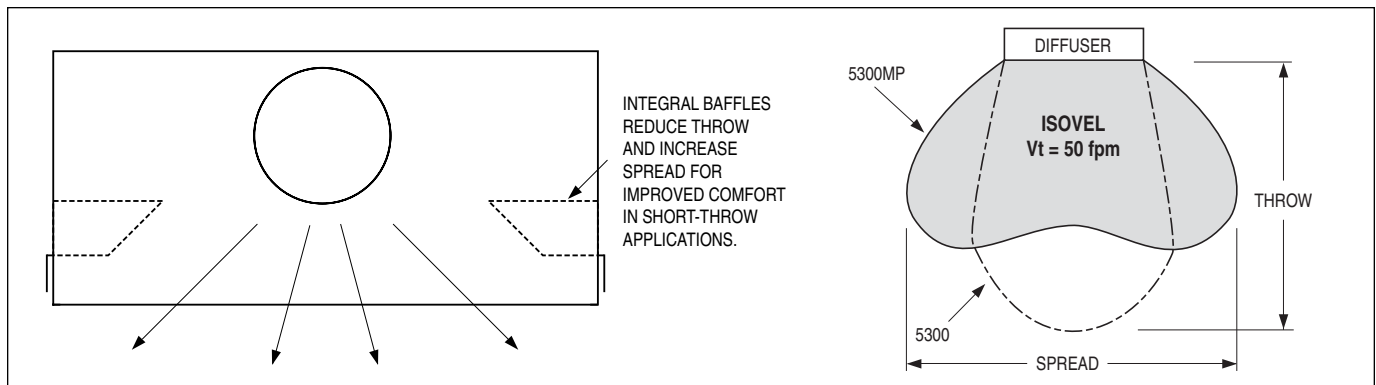
- Easily installed with flexible duct.
- End caps can be folded up to allow continuous runs with the plenums.

- ID Inlet dampers are available.
- EX External Foil Back insulation.

**Material:** Corrosion-resistant steel.

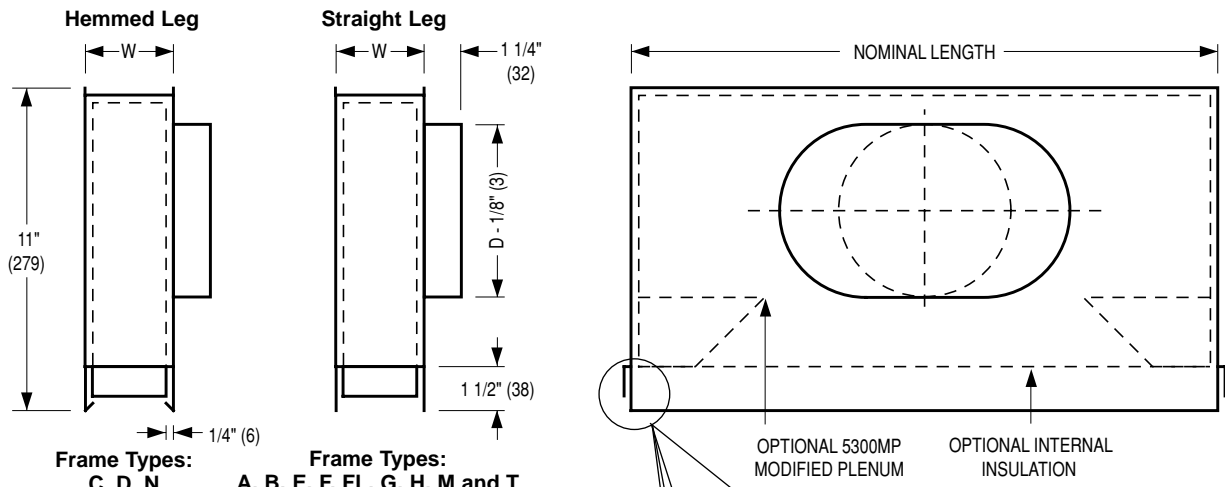
### Options:

- Optional internal insulation. **Model Series 5300I** and **5300IMP**.



## Dimensional Data

### Model Series 5300 and 5300MP Plenums for Series 5000 and 5000R Linear Slot Diffusers



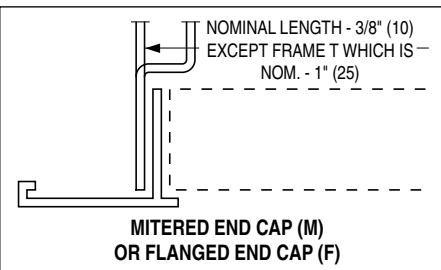
Frame Types:  
C, D, N

Frame Types:  
A, B, E, F, FL, G, H, M and T

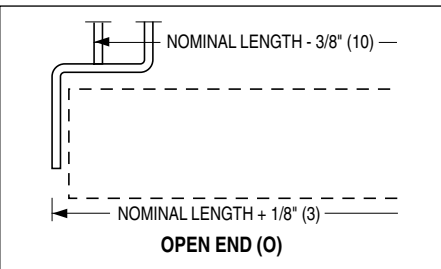
Nominal Length (N)		Standard Nominal Inlets (D)	
inches	mm	inches	mm
20	508	4, 5, 6, 8, 10	102, 127, 152, 203, 254
24	610		
30	762		
36	914		
48	1219	6, 8, 10, 12	152, 203, 254, 305
60	1524		

Inlets 4" thru' 8" are round and 10" thru' 12" are flat oval.

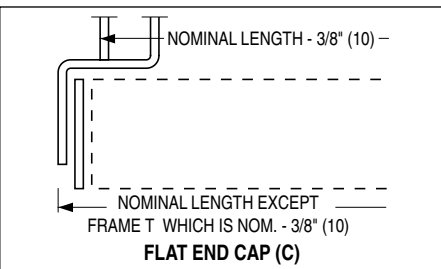
Model	No. of Slots	Plenum Width (W) For Various Frame Types							
		Imperial Units (inches)				Metric Units (mm)			
		A, B, FL, M, T	C, D, F, H, N	E	G	A, B, FL, M, T	C, D, F, H, N	E	G
5350	1	1 1/2	2	2 1/4	2 1/2	38	51	57	64
5375		1 3/4	2 1/4	2 1/2	2 3/4	44	57	64	70
5310		2	2 1/2	2 3/4	3	51	64	70	76
5350	2	2 3/4	3 1/4	3 1/2	3 3/4	70	83	89	95
5375		3 1/4	3 3/4	4	4 1/4	83	95	102	108
5310		3 3/4	4 1/4	4 1/2	4 3/4	95	108	114	121
5350	3	4	4 1/2	4 3/4	5	102	114	114	127
5375		4 3/4	5 1/4	5 1/2	5 3/4	121	133	140	146
5310		5 1/2	6	6 1/4	6 1/2	140	152	159	165
5350	4	5 1/4	5 3/4	6	6 1/4	133	146	152	159
5375		6 1/4	6 3/4	7	7 1/4	159	171	178	184
5310		7 1/4	7 3/4	8	8 1/4	184	197	203	210



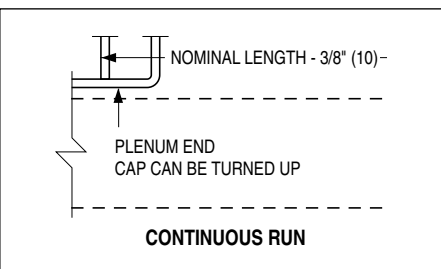
MITERED END CAP (M)  
OR FLANGED END CAP (F)



OPEN END (O)



FLAT END CAP (C)



CONTINUOUS RUN

B LINEAR DIFFUSERS AND BAR GRILLES

## HOW TO SPECIFY OR TO ORDER

(Show complete Model Number and Size, unless "Default" is desired).

### Linear Slot Diffuser Plenums – Model Series 5300

5375 - 48" x 2 Slot - 8 - C - —

#### MODEL SERIES

- Standard Plenum 5300
- Modified Performance Plenum 5300MP

#### SLOT WIDTH / OPTIONAL INSULATION

- 1/2" (13) 50
- 3/4" (19) 75
- 1" (25) 10
- 1/2" (13) Internal Insulation 50I
- 3/4" (19) Internal Insulation 75I
- 1" (25) Internal Insulation 10I

#### NOM. LENGTH

##### Imperial Sizes

- 20, 24, 30, 36, 48, 60  
(508, 610, 762, 914, 1219, 1524)

##### Metric Sizes

- 500, 600, 750, 900, 1200, 1500

#### NO. OF SLOTS

- 1 thru 4

#### OPTIONS

- None (default) —
- Inlet Damper ID
- External Foil Back Insulation EX

#### LINEAR SLOT DIFFUSER 5000 SERIES FRAME OR FRAME/SUB-FRAME COMBINATION

- A, B, C, D, E, F, G, H, M, N,  
T or FL

#### PLENUM INLET SIZE

- 4" Round 4
- 5" Round 5
- 6" Round 6
- 7" Round 7
- 8" Round 8
- 10" Oval 10
- 12" Oval 12

#### Notes:

1. Plenums are shipped loose as standard for field installation.
2. Plenums for frame/sub-frame types A, B, E, F, G, H, M, N, T and FL are for direct attachment to diffuser neck or sub-frame.
3. Plenums for frame types C and D are hemmed for field attachment by use of concealed mounting straps.
4. End caps of plenums can be turned up for use on continuous runs.
5. For lay-in T-Bar installations, specify nominal T-Bar opening length.

#### SUGGESTED SPECIFICATION:

##### Models 5310, 5375, 5350

Furnish and install **Nailor Model** (select one) **5310/5310I** (1" (25) slot), **5375/5375I** (3/4" (19) slot), or **5350/5350I** (1/2" (13) slot) **Plenums for Linear Slot Diffusers** of the sizes and capacities as shown on the plans and air distribution schedules. The plenums shall be manufactured from corrosion-resistant steel and shall include a side inlet for connection to the duct. The width shall fit a 1, 2, 3, or 4 slot linear as specified and the length shall be in standard nominal lengths of 20", 24", 30", 36", 48" and 60" (508, 610, 762, 914, 1219 and 1524 mm). When continuous sections are required, the end caps shall be folded up for uninterrupted airflow. Models 5310I, 5375I and 5350I shall have internal insulation.

The manufacturer shall provide published performance data for the linear slot diffuser plenums, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.

##### Models 5310MP, 5375MP, 5350MP

Furnish and install **Nailor Model** (select one) **5310MP/5310MPI** (1" (25) slot), **5375MP/5375MPI** (3/4" (19) slot), or **5350MP/5350MPI** (1/2" (13) slot) **Modified Performance Plenums for Linear Slot Diffusers** of the sizes and capacities as shown on the plans and air distribution schedules. The plenums shall be manufactured from corrosion-resistant steel and shall include a side inlet for connection to the duct. The width shall fit a 1, 2, 3, or 4 slot linear as specified and the length shall be in standard nominal lengths of 20", 24", 30", 36", 48" and 60" (508, 610, 762, 914, 1219 and 1524 mm). When continuous sections are required, the end caps shall be folded up for uninterrupted airflow. Models 5310MPI, 5375MPI and 5350MPI shall have internal insulation.

The manufacturer shall provide published performance data for the linear slot diffuser plenums, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.

## Performance Data

Model 5350(I) • 1/2" (13) Slot Width

1 Slot • 24" (610) Long

<b>6" Round Inlet</b>	<b>Airflow, CFM</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
	TP	.017	.038	.068	.107	.154	.209	.273	.346
	NC	—	17	23	29	33	37	41	43
	T	1-1-6	1-3-7	3-6-9	4-7-9	5-7-10	6-7-10	7-8-12	7-9-13

1 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	<b>Airflow, CFM</b>	<b>35</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>
	TP	.013	.027	.045	.068	.096	.129	.167	.209
	NC	—	19	25	30	34	37	40	43
	T	1-2-7	2-3-9	2-5-10	4-8-12	6-9-13	7-10-14	7-10-15	7-11-15

<b>8" Round Inlet</b>	<b>Airflow, CFM</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>
	TP	.030	.051	.077	.109	.146	.188	.236	.290
	NC	15	21	26	30	33	36	39	42
	T	2-3-9	2-5-10	4-8-12	6-9-13	7-10-14	7-10-15	7-11-15	8-11-16

1 Slot • 60" (1524) Long

<b>6" Round Inlet</b>	<b>Airflow, CFM</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>
	TP	.025	.043	.064	.091	.122	.157	.198	.242
	NC	—	20	26	30	34	37	40	42
	T	1-3-8	1-4-9	2-4-10	3-6-11	4-8-12	6-10-13	7-10-14	8-11-16

<b>8" Round Inlet</b>	<b>Airflow, CFM</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>
	TP	.028	.048	.073	.102	.137	.177	.222	.272
	NC	—	17	22	26	30	34	37	39
	T	1-3-8	1-4-9	2-4-10	3-6-11	4-8-12	6-10-13	7-10-14	8-11-16

Performance Notes – see page B24.

**B**

LINEAR DIFFUSERS AND BAR GRILLES

## Performance Data

### Model 5350(I) • 1/2" (13) Slot Width

#### 2 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	35	50	65	80	95	110	125	140
	TP	.021	.042	.072	.108	.153	.205	.265	.332
	NC	—	18	24	29	34	37	40	43
	T	1-3-7	2-5-8	3-7-9	5-8-11	6-8-12	7-9-13	8-10-14	8-10-15

#### 2 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	60	80	100	120	140	160	180	200
	TP	.025	.045	.070	.101	.137	.179	.227	.280
	NC	—	19	24	28	32	36	38	41
	T	1-3-9	2-4-11	3-6-12	4-8-13	5-9-14	6-10-15	7-11-16	8-13-17

8" Round Inlet	Airflow, CFM	80	100	120	140	160	180	200	220
	TP	.029	.046	.066	.089	.117	.148	.183	.221
	NC	17	21	25	29	32	35	38	40
	T	2-4-11	3-6-12	4-8-13	5-9-14	6-10-15	7-11-16	8-13-17	9-13-19

10" Oval Inlet	Airflow, CFM	100	120	140	160	180	200	220	240
	TP	.054	.077	.105	.137	.174	.214	.259	.309
	NC	18	22	26	29	32	35	37	39
	T	3-6-12	4-8-13	5-9-14	6-10-15	7-11-16	8-13-17	9-13-19	10-14-20

#### 2 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	120	140	160	180	200	220	240	260
	TP	.071	.097	.126	.160	.198	.239	.284	.334
	NC	21	25	28	31	34	36	38	40
	T	2-5-10	4-7-12	4-8-13	5-9-14	6-10-15	7-11-16	7-12-16	8-13-17

10" Oval Inlet	Airflow, CFM	140	160	180	200	220	240	260	280
	TP	.065	.085	.107	.133	.161	.191	.224	.260
	NC	22	25	28	31	33	35	37	39
	T	4-7-12	4-8-13	5-9-14	6-10-15	7-11-16	7-12-16	8-13-17	8-13-19

CFM - cubic feet per minute

TP - total pressure - inches w.g.

T - throw in feet

NC - Noise Criteria (values) based on 10 dB room absorption, re 10<sup>-12</sup> watts.

#### Performance Notes:

- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- 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.
- 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.
- Dash ( — ) in space indicates an NC level of less than 15.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.018	.033
2	.035	.066
3	.053	.099
4	.070	.132

## Performance Data

### Model 5375(I) • 3/4" (19) Slot Width

#### 1 Slot • 24" (610) Long

<b>6" Round Inlet</b>	<b>Airflow, CFM</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
	TP	.014	.031	.055	.085	.123	.168	.219	.277
	NC	—	15	21	27	31	35	38	41
	T	1-2-4	1-3-6	2-4-7	3-6-9	5-7-10	6-7-10	7-8-11	7-9-12

<b>8" Round Inlet</b>	<b>Airflow, CFM</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>
	TP	.038	.068	.107	.154	.209	.273	.346	.427
	NC	—	19	24	28	32	34	37	40
	T	1-3-6	2-4-7	3-6-9	5-7-10	6-7-10	7-8-11	7-9-12	8-10-13

<b>10" Oval Inlet</b>	<b>Airflow, CFM</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>110</b>
	TP	.088	.137	.198	.269	.351	.444	.549	.664
	NC	—	19	24	28	31	34	37	39
	T	2-4-7	3-6-9	5-7-10	6-7-10	7-8-11	7-9-12	8-10-13	8-10-14

#### 1 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	<b>Airflow, CFM</b>	<b>35</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>
	TP	.012	.024	.040	.061	.086	.115	.149	.187
	NC	—	18	23	28	31	34	37	40
	T	1-2-4	2-4-7	3-5-8	4-6-11	5-7-12	6-9-13	6-10-13	7-11-14

<b>8" Round Inlet</b>	<b>Airflow, CFM</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>
	TP	.020	.034	.052	.073	.098	.127	.159	.195
	NC	—	19	24	28	31	33	36	39
	T	2-4-7	3-5-8	4-6-11	5-7-12	6-9-13	6-10-13	7-11-14	7-11-15

<b>10" Oval Inlet</b>	<b>Airflow, CFM</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>
	TP	.038	.058	.081	.109	.141	.177	.217	.261
	NC	16	21	25	29	32	34	36	39
	T	3-5-8	4-6-11	5-7-12	6-9-13	6-10-13	7-11-14	7-11-15	8-12-16

<b>12" Oval Inlet</b>	<b>Airflow, CFM</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	TP	.064	.091	.122	.157	.198	.242	.291	.345
	NC	17	21	24	27	30	32	35	37
	T	4-6-11	5-7-12	6-9-13	6-10-13	7-11-14	7-11-15	8-12-16	8-13-18

#### 1 Slot • 60" (1524) Long

<b>8" Round Inlet</b>	<b>Airflow, CFM</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	TP	.039	.055	.074	.095	.119	.146	.176	.209
	NC	20	24	28	31	34	37	38	40
	T	3-5-8	4-6-10	5-7-11	5-8-12	6-9-14	7-10-15	7-11-16	8-12-17

<b>10" Oval Inlet</b>	<b>Airflow, CFM</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>
	TP	.050	.068	.087	.110	.134	.162	.191	.224
	NC	22	25	28	31	33	35	37	39
	T	4-6-10	5-7-11	5-8-12	6-9-14	7-10-15	7-11-16	8-12-17	8-13-18

<b>12" Oval Inlet</b>	<b>Airflow, CFM</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>	<b>215</b>
	TP	.077	.100	.125	.153	.184	.218	.255	.295
	NC	22	25	27	30	32	34	37	38
	T	5-7-11	5-8-12	6-9-14	7-10-15	7-11-16	8-12-17	8-13-18	9-14-19

Performance Notes – see page B28.

**B**

**LINEAR DIFFUSERS AND BAR GRILLES**

## Performance Data

### Model 5375(I) • 3/4" (19) Slot Width

#### 2 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>
	TP	.027	.045	.068	.096	.129	.167	.209	.257
	NC	17	22	27	31	35	38	41	44
	T	1-3-8	2-5-9	3-7-10	5-9-12	6-9-13	7-10-14	8-10-15	8-11-17

<b>8" Round Inlet</b>	Airflow, CFM	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>
	TP	.036	.055	.077	.103	.134	.168	.205	.247
	NC	19	24	28	31	34	37	40	43
	T	2-5-9	3-7-10	5-9-12	6-9-13	7-10-14	8-10-15	8-11-17	9-11-19

<b>10" Oval Inlet</b>	Airflow, CFM	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	TP	.061	.086	.115	.149	.187	.229	.275	.326
	NC	18	24	28	32	35	38	41	43
	T	3-7-10	5-9-12	6-9-13	7-10-14	8-10-15	8-11-17	9-11-19	10-12-20

#### 2 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>
	TP	.022	.039	.061	.088	.119	.156	.198	.244
	NC	—	17	22	26	30	33	36	39
	T	1-4-10	2-5-12	2-6-13	3-6-13	4-7-14	4-10-14	5-11-16	6-12-17

<b>8" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>
	TP	.022	.034	.049	.067	.088	.111	.137	.166
	NC	—	18	22	26	30	33	36	39
	T	2-5-12	2-6-13	3-6-13	4-7-14	4-10-14	5-11-16	6-12-17	7-13-18

<b>10" Oval Inlet</b>	Airflow, CFM	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>
	TP	.025	.036	.049	.064	.082	.101	.122	.145
	NC	16	20	24	27	30	33	36	38
	T	2-6-13	3-6-13	4-7-14	4-10-14	5-11-16	6-12-17	7-13-18	8-14-20

<b>12" Oval Inlet</b>	Airflow, CFM	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>
	TP	.038	.052	.068	.087	.107	.129	.154	.180
	NC	16	19	22	27	30	33	36	38
	T	3-6-13	4-7-14	4-10-14	5-11-16	6-12-17	7-13-18	8-14-20	9-15-21

#### 2 Slot • 60" (1524) Long

<b>8" Round Inlet</b>	Airflow, CFM	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>	<b>280</b>
	TP	.054	.070	.089	.110	.133	.158	.186	.216
	NC	23	26	29	31	34	36	38	40
	T	2-6-13	3-7-14	5-8-15	5-8-16	6-9-17	6-10-18	7-11-19	8-13-20

<b>10" Oval Inlet</b>	Airflow, CFM	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>	<b>280</b>	<b>300</b>
	TP	.049	.063	.077	.093	.111	.130	.151	.174
	NC	23	26	28	31	33	35	37	39
	T	3-7-14	5-8-15	5-8-16	6-9-17	6-10-18	7-11-19	8-13-20	8-15-21

<b>12" Oval Inlet</b>	Airflow, CFM	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>	<b>280</b>	<b>300</b>	<b>320</b>
	TP	.044	.055	.066	.079	.092	.107	.123	.140
	NC	22	25	27	29	31	33	35	37
	T	5-8-15	5-8-16	6-9-17	6-10-18	7-11-19	8-13-20	8-15-21	9-16-22

Performance Notes – see page B28.

**B**

**LINEAR DIFFUSERS AND BAR GRILLES**

## Performance Data

### Model 5375(I) • 3/4" (19) Slot Width

#### 3 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>
	TP	.026	.047	.073	.106	.144	.188	.238	.294
	NC	15	21	27	31	35	38	41	44
	T	2-5-10	3-6-11	4-7-12	5-8-13	6-9-16	7-10-18	9-12-20	10-13-21
<b>8" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>
	TP	.030	.047	.068	.093	.122	.154	.190	.230
	NC	17	22	27	31	34	37	39	41
	T	3-6-11	4-7-12	5-8-13	6-9-16	7-10-18	9-12-20	10-13-21	10-14-22
<b>10" Oval Inlet</b>	Airflow, CFM	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>
	TP	.049	.071	.097	.126	.160	.198	.239	.284
	NC	20	24	28	31	34	36	38	40
	T	4-7-12	5-8-13	6-9-16	7-10-18	9-12-20	10-13-21	10-14-22	11-14-23

#### 3 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>
	TP	.074	.107	.145	.190	.240	.297	.359	.427
	NC	21	25	29	33	36	38	40	42
	T	2-6-14	3-7-15	5-9-16	6-10-17	6-11-18	7-12-19	7-13-20	8-14-21
<b>8" Round Inlet</b>	Airflow, CFM	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>
	TP	.057	.077	.101	.128	.157	.191	.227	.266
	NC	21	25	28	31	34	36	38	40
	T	3-7-15	5-9-16	6-10-17	6-11-18	7-12-19	7-13-20	8-14-21	9-15-23
<b>10" Oval Inlet</b>	Airflow, CFM	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>	<b>350</b>
	TP	.051	.067	.085	.104	.126	.150	.176	.204
	NC	23	26	28	31	33	35	37	39
	T	5-9-16	6-10-17	6-11-18	7-12-19	7-13-20	8-14-21	9-15-23	10-16-25
<b>12" Oval Inlet</b>	Airflow, CFM	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>	<b>350</b>	<b>375</b>
	TP	.041	.052	.064	.077	.092	.108	.125	.143
	NC	21	24	27	29	31	33	35	39
	T	6-10-17	6-11-18	7-12-19	7-13-20	8-14-21	9-15-23	10-16-25	11-17-27

#### 3 Slot • 60" (1524) Long

<b>8" Round Inlet</b>	Airflow, CFM	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>
	TP	.069	.094	.123	.156	.192	.233	.277	.325
	NC	22	26	29	32	35	37	39	41
	T	3-8-15	5-10-16	6-11-18	7-12-19	7-13-20	8-14-21	8-15-22	9-16-23
<b>10" Oval 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>	<b>420</b>
	TP	.064	.084	.106	.131	.159	.189	.222	.257
	NC	24	27	29	32	34	36	38	40
	T	5-10-16	6-11-18	7-12-19	7-13-20	8-14-21	8-15-22	9-16-23	9-17-24
<b>12" Oval Inlet</b>	Airflow, CFM	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>	<b>420</b>	<b>450</b>
	TP	.049	.063	.077	.093	.111	.130	.151	.174
	NC	23	25	28	30	32	34	36	38
	T	6-11-18	7-12-19	7-13-20	8-14-21	8-15-22	9-16-23	9-17-24	10-17-25

Performance Notes – see page B28.

## Performance Data

### Model 5375(I) • 3/4" (19) Slot Width

#### 4 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>
	TP	.033	.058	.091	.131	.179	.233	.295	.365
	NC	17	22	28	32	36	39	42	45
	T	2-6-11	3-7-13	5-8-14	7-10-15	8-11-17	9-12-20	9-13-21	10-14-23

<b>8" Round Inlet</b>	Airflow, CFM	<b>100</b>	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>
	TP	.031	.049	.070	.095	.124	.157	.194	.235
	NC	18	23	27	32	35	38	40	42
	T	3-7-13	5-8-14	7-10-15	8-11-17	9-12-20	9-13-21	10-14-23	11-16-24

<b>10" Oval Inlet</b>	Airflow, CFM	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>
	TP	.042	.060	.082	.107	.135	.167	.202	.240
	NC	22	25	28	32	35	37	39	41
	T	5-8-14	7-10-15	8-11-17	9-12-20	9-13-21	10-14-23	11-16-24	13-19-26

#### 4 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>160</b>	<b>190</b>	<b>220</b>	<b>250</b>	<b>280</b>	<b>310</b>	<b>340</b>	<b>370</b>
	TP	.074	.159	.213	.275	.345	.422	.508	.602
	NC	23	27	30	33	35	38	40	42
	T	3-8-15	4-10-16	5-12-18	6-13-20	7-14-21	9-15-22	10-16-24	11-17-26

<b>8" Round Inlet</b>	Airflow, CFM	<b>190</b>	<b>220</b>	<b>250</b>	<b>280</b>	<b>310</b>	<b>340</b>	<b>370</b>	<b>400</b>
	TP	.071	.096	.124	.155	.190	.229	.271	.317
	NC	23	26	29	32	34	37	39	41
	T	4-10-16	5-12-18	6-13-20	7-14-21	9-15-22	10-16-24	11-17-26	12-17-28

<b>10" Oval Inlet</b>	Airflow, CFM	<b>220</b>	<b>250</b>	<b>280</b>	<b>310</b>	<b>340</b>	<b>370</b>	<b>400</b>	<b>430</b>
	TP	.064	.082	.103	.126	.152	.180	.210	.243
	NC	23	26	29	32	34	36	38	40
	T	5-12-18	6-13-20	7-14-21	9-15-22	10-16-24	11-17-26	12-17-28	12-18-29

<b>12" Oval Inlet</b>	Airflow, CFM	<b>250</b>	<b>280</b>	<b>310</b>	<b>340</b>	<b>370</b>	<b>400</b>	<b>430</b>	<b>460</b>
	TP	.046	.057	.070	.084	.100	.117	.135	.155
	NC	22	25	28	30	32	34	36	38
	T	6-13-20	7-14-21	9-15-22	10-16-24	11-17-26	12-17-28	12-18-29	13-19-30

#### 4 Slot • 60" (1524) Long

<b>8" Round Inlet</b>	Airflow, CFM	<b>220</b>	<b>260</b>	<b>300</b>	<b>340</b>	<b>380</b>	<b>420</b>	<b>460</b>	<b>500</b>
	TP	.089	.124	.165	.212	.265	.324	.389	.459
	NC	23	27	30	33	36	38	40	42
	T	3-10-16	4-11-18	6-12-20	8-13-22	10-15-24	11-16-26	12-17-28	13-19-31

<b>10" Oval Inlet</b>	Airflow, CFM	<b>260</b>	<b>300</b>	<b>340</b>	<b>380</b>	<b>420</b>	<b>460</b>	<b>500</b>	<b>540</b>
	TP	.077	.103	.132	.165	.201	.242	.285	.333
	NC	24	27	30	33	36	38	40	42
	T	4-11-18	6-12-20	8-13-22	10-15-24	11-16-26	12-17-28	13-19-31	14-20-32

<b>12" Oval Inlet</b>	Airflow, CFM	<b>300</b>	<b>340</b>	<b>380</b>	<b>420</b>	<b>460</b>	<b>500</b>	<b>540</b>	<b>580</b>
	TP	.053	.068	.085	.104	.124	.147	.171	.198
	NC	23	26	29	31	34	36	38	40
	T	6-12-20	8-13-22	10-15-24	11-16-26	12-17-28	13-19-31	14-20-32	14-21-34

**CFM** - cubic feet per minute

**TP** - total pressure - inches w.g.

**T** - throw in feet

**NC** - Noise Criteria (values) based on 10 dB room absorption, re 10<sup>-12</sup> watts.

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. 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.

3. 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.

4. Dash ( — ) in space indicates an NC level of less than 15.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.

Number of Slots	Ak Factor per foot	
	Supply	Return
<b>1</b>	.024	.039
<b>2</b>	.049	.078
<b>3</b>	.073	.117
<b>4</b>	.098	.156

## Performance Data

### Model 5310(I) • 1" (25) Slot Width

#### 1 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
	TP	.008	.018	.032	.049	.071	.097	.126	.160
	NC	—	—	19	25	29	33	36	39
	T	1-2-4	2-3-5	2-4-6	3-5-7	4-6-8	4-6-9	5-6-9	5-7-10

<b>8" Round Inlet</b>	Airflow, CFM	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>
	TP	.023	.041	.064	.092	.125	.163	.207	.255
	NC	—	—	19	25	29	32	34	37
	T	2-3-5	2-4-6	3-5-7	4-6-8	4-6-9	5-6-9	5-7-10	6-7-10

<b>10" Oval Inlet</b>	Airflow, CFM	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>110</b>
	TP	.049	.077	.111	.151	.198	.250	.309	.373
	NC	—	17	22	26	29	31	34	37
	T	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

<b>6" Round Inlet</b>	Airflow, CFM	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>
	TP	.019	.033	.049	.070	.093	.121	.151	.185
	NC	16	20	25	28	32	35	38	40
	T	1-2-5	1-3-7	1-3-9	2-4-10	2-5-10	3-5-11	3-6-12	4-7-12

<b>8" Round Inlet</b>	Airflow, CFM	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>
	TP	.022	.033	.046	.062	.080	.101	.124	.149
	NC	17	21	25	28	31	34	36	39
	T	1-3-7	1-3-9	2-4-10	2-5-10	3-5-11	3-6-12	4-7-12	5-8-13

<b>10" Oval Inlet</b>	Airflow, CFM	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	TP	.036	.050	.068	.087	.110	.134	.162	.191
	NC	18	22	26	29	32	34	36	38
	T	1-3-9	2-4-10	2-5-10	3-5-11	3-6-12	4-7-12	5-8-13	6-9-14

<b>12" Oval Inlet</b>	Airflow, CFM	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>
	TP	.055	.074	.095	.119	.146	.176	.209	.244
	NC	18	21	24	27	30	33	35	37
	T	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

<b>8" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	TP	.026	.037	.049	.064	.080	.098	.118	.140
	NC	18	22	26	29	32	34	36	38
	T	1-3-7	1-3-9	2-4-9	3-5-10	3-5-11	4-6-11	5-7-12	6-8-13

<b>10" Oval Inlet</b>	Airflow, CFM	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>
	TP	.031	.041	.054	.067	.082	.099	.117	.137
	NC	18	22	26	28	31	33	35	37
	T	1-3-9	2-4-9	3-5-10	3-5-11	4-6-11	5-7-12	6-8-13	6-9-14

<b>12" Oval Inlet</b>	Airflow, CFM	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>	<b>215</b>
	TP	.040	.052	.065	.080	.096	.114	.133	.153
	NC	19	22	24	28	30	32	34	36
	T	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 Notes – see page B32.

**B**

LINEAR DIFFUSERS AND BAR GRILLES

## Performance Data

Model 5310(I) • 1" (25) Slot Width

2 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>
	TP	.020	.034	.052	.073	.098	.127	.159	.195
	NC	—	19	25	29	33	36	39	42
	T	2-4-7	2-5-8	4-6-9	5-6-10	6-7-10	6-8-12	7-8-14	7-9-15

<b>8" Round Inlet</b>	Airflow, CFM	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>
	TP	.026	.039	.055	.074	.095	.119	.146	.176
	NC	18	22	25	29	32	35	38	41
	T	2-5-8	4-6-9	5-6-10	6-7-10	6-8-12	7-8-14	7-9-15	8-10-15

<b>10" Oval Inlet</b>	Airflow, CFM	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	TP	.043	.060	.081	.104	.131	.160	.193	.229
	NC	18	22	26	29	32	35	38	40
	T	4-6-9	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

<b>6" Round Inlet</b>	Airflow, CFM	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>
	TP	.054	.077	.105	.137	.174	.214	.259	.309
	NC	20	24	28	31	34	37	39	41
	T	1-4-8	2-6-9	4-7-12	5-8-13	6-9-14	6-10-14	7-11-15	8-12-17

<b>8" Round Inlet</b>	Airflow, CFM	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>
	TP	.041	.056	.073	.092	.113	.137	.163	.192
	NC	20	24	27	30	33	35	37	39
	T	2-6-9	4-7-12	5-8-13	6-9-14	6-10-14	7-11-15	8-12-17	8-12-17

<b>10" Oval Inlet</b>	Airflow, CFM	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>	<b>280</b>
	TP	.038	.049	.063	.077	.093	.111	.130	.151
	NC	21	24	27	30	32	34	36	38
	T	4-7-12	5-8-13	6-9-14	6-10-14	7-11-15	8-12-17	8-12-17	9-13-19

<b>12" Oval Inlet</b>	Airflow, CFM	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>	<b>280</b>	<b>300</b>
	TP	.032	.040	.049	.060	.071	.083	.097	.111
	NC	20	24	26	28	30	32	34	36
	T	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

<b>8" Round Inlet</b>	Airflow, CFM	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>	<b>280</b>	<b>300</b>
	TP	.059	.075	.093	.112	.133	.157	.182	.209
	NC	24	27	29	31	33	35	37	39
	T	3-6-10	4-7-12	6-9-14	7-9-15	7-10-16	8-11-17	8-12-18	9-13-19

<b>10" Oval Inlet</b>	Airflow, CFM	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>	<b>280</b>	<b>300</b>	<b>320</b>
	TP	.052	.064	.077	.092	.108	.125	.143	.163
	NC	24	26	28	31	33	35	37	39
	T	4-7-12	6-9-14	7-9-15	7-10-16	8-11-17	8-12-18	9-13-19	9-14-21

<b>12" Oval Inlet</b>	Airflow, CFM	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>	<b>280</b>	<b>300</b>	<b>320</b>	<b>340</b>
	TP	.045	.054	.064	.076	.088	.101	.115	.129
	NC	23	26	28	30	32	34	36	38
	T	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 Notes – see page B32.

**B**

LINEAR DIFFUSERS AND BAR GRILLES

## Performance Data

Model 5310(I) • 1" (25) Slot Width

3 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>
	TP	.024	.043	.067	.096	.131	.171	.216	.267
	NC	—	19	24	28	32	35	38	41
	T	2-4-8	3-5-9	4-6-10	5-7-11	6-8-12	7-9-14	7-10-15	8-10-16
<b>8" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>
	TP	.022	.034	.049	.067	.088	.111	.137	.166
	NC	15	20	25	28	31	34	37	39
	T	3-5-9	4-6-10	5-7-11	6-8-12	7-9-14	7-10-15	8-10-16	8-11-17
<b>10" Oval Inlet</b>	Airflow, CFM	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>
	TP	.029	.042	.057	.075	.095	.117	.141	.168
	NC	18	22	25	28	31	34	36	38
	T	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

<b>6" Round Inlet</b>	Airflow, CFM	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>
	TP	.071	.103	.140	.183	.231	.285	.345	.411
	NC	19	23	27	30	33	36	38	40
	T	2-4-10	3-6-12	5-7-14	5-8-15	6-8-16	7-9-17	7-10-18	7-11-18
<b>8" Round Inlet</b>	Airflow, CFM	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>
	TP	.048	.065	.085	.108	.134	.162	.192	.226
	NC	20	23	26	29	32	34	36	38
	T	3-6-12	5-7-14	5-8-15	6-8-16	7-9-17	7-10-18	7-11-18	8-12-20
<b>10" Oval Inlet</b>	Airflow, CFM	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>	<b>350</b>
	TP	.045	.058	.074	.091	.110	.131	.154	.179
	NC	20	23	26	28	30	32	34	36
	T	5-7-14	5-8-15	6-8-16	7-9-17	7-10-18	7-11-18	8-12-20	8-13-22
<b>12" Oval Inlet</b>	Airflow, CFM	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>	<b>350</b>	<b>375</b>
	TP	.032	.040	.049	.060	.071	.083	.097	.111
	NC	19	22	25	27	29	31	33	35
	T	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

<b>8" Round Inlet</b>	Airflow, CFM	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>
	TP	.063	.085	.111	.141	.174	.210	.250	.293
	NC	20	23	27	30	33	35	37	39
	T	3-7-13	4-8-15	6-9-17	6-10-18	7-11-19	7-12-20	8-13-22	8-14-23
<b>10" Oval 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>	<b>420</b>
	TP	.054	.071	.090	.111	.134	.160	.188	.218
	NC	22	24	27	29	32	34	36	38
	T	4-8-15	6-9-17	6-10-18	7-11-19	7-12-20	8-13-22	8-14-23	9-15-24
<b>12" Oval Inlet</b>	Airflow, CFM	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>	<b>420</b>	<b>450</b>
	TP	.036	.046	.057	.069	.082	.096	.111	.128
	NC	21	23	25	28	30	32	34	36
	T	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 Notes – see page B32.

## 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
	TP	.030	.054	.084	.121	.164	.214	.271	.335
	NC	16	20	25	29	33	36	39	41
	T	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
	TP	.027	.042	.060	.082	.107	.135	.167	.202
	NC	17	21	25	29	33	35	37	40
	T	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" Oval Inlet	Airflow, CFM	125	150	175	200	225	250	275	300
	TP	.029	.041	.056	.073	.093	.115	.139	.165
	NC	19	23	26	30	32	35	37	39
	T	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
	TP	.104	.147	.198	.255	.320	.392	.472	.559
	NC	20	24	28	31	34	36	38	40
	T	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
	TP	.065	.087	.112	.140	.172	.207	.245	.287
	NC	21	24	27	30	32	34	36	38
	T	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
	TP	.054	.070	.088	.108	.129	.153	.179	.207
	NC	21	24	27	29	31	33	35	37
	T	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
	TP	.039	.049	.061	.073	.086	.101	.116	.133
	NC	20	23	26	28	30	32	34	36
	T	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
	TP	.085	.118	.157	.202	.253	.309	.370	.437
	NC	20	24	28	31	33	35	38	40
	T	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
	TP	.072	.095	.122	.153	.187	.224	.265	.309
	NC	22	25	28	31	33	35	37	39
	T	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
	TP	.043	.056	.070	.085	.102	.121	.141	.162
	NC	21	24	27	29	31	33	35	37
	T	7-10-17	8-12-19	9-13-21	9-14-22	10-15-23	10-16-24	11-18-26	12-19-28

CFM - cubic feet per minute

TP - total pressure - inches w.g.

T - throw in feet

NC - Noise Criteria (values) based on 10 dB room absorption, re 10<sup>-12</sup> watts.

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. 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.

3. 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.

4. Dash ( — ) in space indicates an NC level of less than 15.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.

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