

## PERFORMANCE DATA:

### MODELS: 59BS(I) and 59BSR(I) • VERTICAL PATTERN

#### 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>
	Total Pressure	.018	.033	.051	.073	.100	.130	.165	.204
	Static Pressure	.012	.022	.035	.050	.068	.088	.112	.138
	Noise Criteria	–	–	–	–	–	20	25	29
	Vertical Throw	5	6	7	8	9	9	10	11

#### 36" (914) Long

<b>8" Round Inlet</b>	Airflow, CFM	<b>90</b>	<b>120</b>	<b>150</b>	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>
	Total Pressure	.016	.028	.043	.062	.085	.111	.140	.173
	Static Pressure	.011	.020	.032	.046	.062	.081	.103	.127
	Noise Criteria	–	–	–	–	–	20	23	27
	Vertical Throw	6	7	8	9	10	11	12	13

#### 48" (1219) Long

<b>8" Oval Inlet</b>	Airflow, CFM	<b>120</b>	<b>160</b>	<b>200</b>	<b>240</b>	<b>280</b>	<b>320</b>	<b>360</b>	<b>400</b>
	Total Pressure	.024	.042	.066	.094	.129	.168	.212	.262
	Static Pressure	.016	.029	.045	.065	.088	.115	.146	.180
	Noise Criteria	–	–	–	–	20	24	26	31
	Vertical Throw	7	9	10	11	12	13	14	15

#### 60" (1524) Long

<b>8" Oval 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>	<b>500</b>
	Total Pressure	.029	.051	.080	.115	.157	.205	.259	.320
	Static Pressure	.017	.031	.048	.069	.094	.123	.156	.192
	Noise Criteria	–	–	–	–	22	27	32	37
	Vertical Throw	8	10	11	12	13	14	15	17

#### Return Section

<b>R Models</b>	Airflow, CFM/Ft.	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>
	Negative Static Pressure	-.010	-.018	-.027	-.038	-.050	-.063	-.079	-.098

#### Performance Notes:

- Vertical throws are given at 50 fpm terminal velocities for a free jet under isothermal conditions.
- Throw correction factors for different  $\Delta T$ 's.  
 20°F cooling x 1.40  
 10°F heating x 0.85  
 15°F heating x 0.72  
 20°F heating x 0.60
- All pressures are in inches w.g..
- Tested with pattern controller set fully open for vertical discharge. Straight flexible duct connection.
- Noise Criteria [NC] values based on a room absorption of 10 dB, re 10<sup>-12</sup> watts. Dash (–) in space denotes an Noise Criteria level less than 15.
- Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.