

PERFORMANCE DATA:

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

24" (610) Long

| | | | | | | | | | |
|-----------------------|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 6" Round Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | 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

| | | | | | | | | | |
|-----------------------|-----------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 8" Round Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | 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

| | | | | | | | | | |
|----------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | 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

| | | | | | | | | | |
|----------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | 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

| | | | | | | | | | |
|-----------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| R Models | Airflow, CFM/Ft. | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| | 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 ΔT '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 10⁻¹² watts. Dash (–) in space denotes an Noise Criteria level less than 15.
- Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.