

Performance Data

Models 59BS and 59BSR • Vertical Pattern

24" (610) Long

6" Round Inlet	Air Flow, 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
	NC	—	—	—	—	—	20	25	29
	Vertical Throw	3	4	5	6	6	7	8	8

36" (914) Long

8" Round Inlet	Air Flow, 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
	NC	—	—	—	—	—	20	23	27
	Vertical Throw	5	6	8	9	9	10	11	12

48" (1219) Long

8" Round Inlet	Air Flow, 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
	NC	—	—	—	—	20	24	26	31
	Vertical Throw	7	9	10	11	12	13	14	15

60" (1524) Long

8" Round Inlet	Air Flow, 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
	NC	—	—	—	—	22	27	32	37
	Vertical Throw	10	11	12	14	15	17	19	21

Return Section

R Models	Air Flow, CFM/FT.	30	40	50	60	70	80	90	100
	Negative Static Pressure	-.01	-.018	-.027	-.038	-.050	-.063	-.079	-.098

Performance Notes:

- Vertical throws are given at 50 fpm terminal velocity 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
- NC values (Noise Criteria) are based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (-) in space denotes an NC level less than 20.
- Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.