# Performance Data

**500CB Series**

| Duct Size | Core Eff. Area ($ft^2$) | Neck Velocity (FPM) / Velocity Pressure | 300 / .007 | | | 400 / .011 | | | 500 / .017 | | | 600 / .024 | | | 700 / .032 | | | 800 / .044 | | | 900 / .056 | | | 1000 / .067 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6x6 | 0.111 | CFM | 33 | | | 45 | | | 56 | | | 67 | | | 78 | | | 89 | | | 100 | | | 111 | | |
| | | NC | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 20 | | | 25 | | |
| | | Throw | 1 | 2 | 4 | 2 | 3 | 5 | 3 | 4 | 6 | 5 | 6 | 8 | 6 | 8 | 12 | 7 | 8.5 | 13 | 7 | 9 | 13 | 8 | 10 | 15 |
| 8x8 | 0.207 | CFM | 62 | | | 83 | | | 104 | | | 124 | | | 145 | | | 166 | | | 186 | | | 207 | | |
| | | NC | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 20 | | | 25 | | |
| | | Throw | 2 | 3 | 5 | 3 | 4 | 6 | 4 | 5 | 7 | 6 | 8 | 10 | 7 | 9 | 13 | 8 | 10 | 14 | 9 | 11 | 17 | 10 | 13 | 19 |
| 10x10 | 0.332 | CFM | 100 | | | 133 | | | 166 | | | 199 | | | 233 | | | 266 | | | 299 | | | 332 | | |
| | | NC | <20 | | | <20 | | | <20 | | | 20 | | | 20 | | | 20 | | | 25 | | | 25-30 | | |
| | | Throw | 3 | 4 | 6 | 4 | 5 | 7 | 5 | 6.5 | 9.5 | 7 | 9 | 13 | 8 | 10 | 15 | 10 | 12 | 18 | 11 | 14 | 21 | 13 | 16 | 24 |
| 12x12 | 0.487 | CFM | 146 | | | 195 | | | 243 | | | 292 | | | 341 | | | 389 | | | 438 | | | 487 | | |
| | | NC | <20 | | | <20 | | | <20 | | | 20 | | | 20 | | | 20 | | | 25 | | | 25-30 | | |
| | | Throw | 4 | 5 | 7 | 5 | 6 | 9 | 7 | 8 | 12 | 8 | 10 | 15 | 10 | 12 | 18 | 11 | 13 | 19 | 12 | 15 | 22 | 15 | 18 | 26 |
| 14x14 | 0.671 | CFM | 201 | | | 268 | | | 335 | | | 402 | | | 470 | | | 537 | | | 604 | | | 671 | | |
| | | NC | <20 | | | <20 | | | <20 | | | 20 | | | 20 | | | 25 | | | 25-30 | | | 25-30 | | |
| | | Throw | 5 | 6 | 8 | 6 | 7 | 11 | 8 | 9 | 13 | 10 | 12 | 17 | 11 | 13 | 19 | 12 | 15 | 22 | 14 | 17 | 25 | 16 | 19 | 29 |
| 16x16 | 0.884 | CFM | 265 | | | 354 | | | 442 | | | 531 | | | 619 | | | 707 | | | 796 | | | 884 | | |
| | | NC | <20 | | | <20 | | | <20 | | | 20 | | | 25 | | | 25-30 | | | 30 | | | 30-35 | | |
| | | Throw | 6 | 7 | 9 | 7 | 8 | 12 | 9 | 10 | 15 | 11 | 13 | 18 | 12 | 14 | 21 | 13 | 16 | 24 | 15 | 18 | 27 | 17 | 20 | 30 |

Performance Notes:

1) Throw values are measured in feet for terminal velocities of 150/100/50 FPM

2) Throw data is based on supply air and room air both at isothermal conditions

3) Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air