

Performance Data



825MA Series

| Collar Size | Eff. Area (ft ²) | Velocity Duct Pt. | 300 | | | 400 | | | 500 | | | 600 | | | 700 | | | 800 | | | 900 | | | 1000 | | |
|-------------|------------------------------|-------------------|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|----|----|-------|----|------|-------|----|----|-------|------|----|
| | | | 0.007 | | | 0.011 | | | 0.017 | | | 0.024 | | | 0.032 | | | 0.044 | | | 0.056 | | | 0.067 | | |
| 6" | 0.195 | CFM | 59 | | | 78 | | | 98 | | | 117 | | | 137 | | | 156 | | | 176 | | | 195 | | |
| | | NC | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 20 | | |
| | | Throw (ft.) | 2 | 3 | 4 | 3 | 4.5 | 6 | 4 | 6 | 8 | 5 | 7 | 9 | 6 | 8 | 10 | 7 | 9 | 12 | 7 | 10 | 13 | 8 | 11.5 | 15 |
| 7" | 0.265 | CFM | 80 | | | 106 | | | 133 | | | 159 | | | 186 | | | 212 | | | 239 | | | 265 | | |
| | | NC | <20 | | | 20 | | | <25 | | | 25 | | | <30 | | | 30 | | | <35 | | | 35 | | |
| | | Throw (ft.) | 2.5 | 3.5 | 4.5 | 4 | 5 | 6.5 | 4.5 | 6 | 8 | 5.5 | 7.5 | 9.5 | 6 | 8 | 11 | 7 | 9 | 12.5 | 8 | 11 | 14 | 9 | 12.5 | 16 |
| 8" | 0.347 | CFM | 104 | | | 139 | | | 173 | | | 208 | | | 243 | | | 277 | | | 312 | | | 347 | | |
| | | NC | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 20 | | |
| | | Throw (ft.) | 3 | 4 | 5 | 4 | 5 | 7 | 5 | 7 | 9 | 6 | 8 | 10 | 6 | 9 | 12 | 7 | 10 | 13 | 8 | 11 | 15 | 9 | 13 | 16 |
| 9" | 0.439 | CFM | 132 | | | 176 | | | 219 | | | 263 | | | 307 | | | 351 | | | 395 | | | 439 | | |
| | | NC | <20 | | | 20 | | | 25 | | | <30 | | | 30 | | | <35 | | | 35 | | | 40 | | |
| | | Throw (ft.) | 4 | 5 | 6 | 4 | 5.5 | 6.5 | 5 | 7 | 9.5 | 6 | 8.5 | 11 | 7 | 10 | 13 | 7 | 11 | 14 | 8 | 12 | 16 | 9 | 13 | 17 |
| 10" | 0.542 | CFM | 163 | | | 217 | | | 271 | | | 325 | | | 379 | | | 433 | | | 488 | | | 542 | | |
| | | NC | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 25 | | |
| | | Throw (ft.) | 3 | 5 | 7 | 4 | 6 | 8 | 5 | 7.5 | 10 | 6 | 9 | 12 | 7 | 11 | 14 | 8 | 12 | 16 | 9 | 13 | 17 | 10 | 14 | 18 |
| 12" | 0.780 | CFM | 234 | | | 312 | | | 390 | | | 468 | | | 546 | | | 624 | | | 702 | | | 780 | | |
| | | NC | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 25 | | | 25 | | |
| | | Throw (ft.) | 6 | 9 | 11 | 7 | 11 | 14 | 9 | 12 | 15 | 11 | 14 | 17 | 13 | 16 | 19 | 14 | 17 | 20 | 14 | 18 | 22 | 15 | 19 | 23 |
| 14" | 1.062 | CFM | 319 | | | 425 | | | 531 | | | 637 | | | 743 | | | 849 | | | 956 | | | 1062 | | |
| | | NC | <20 | | | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 25 | | | 25-30 | | |
| | | Throw (ft.) | 6 | 10 | 13 | 9 | 12 | 15 | 12 | 15 | 18 | 14 | 17 | 20 | 16 | 19 | 22 | 18 | 21 | 24 | 19 | 23 | 27 | 20 | 24 | 28 |
| 16" | 1.387 | CFM | 416 | | | 555 | | | 693 | | | 832 | | | 971 | | | 1109 | | | 1248 | | | 1387 | | |
| | | NC | <20 | | | <20 | | | <20 | | | <20 | | | 20 | | | 25 | | | 25 | | | 25-30 | | |
| | | Throw (ft.) | 7 | 11 | 15 | 11 | 14 | 17 | 16 | 18 | 20 | 17 | 20 | 23 | 19 | 22 | 26 | 21 | 25 | 28 | 22 | 26 | 30 | 24 | 28 | 32 |

Performance Notes:

1 For square neck multiply CFM x 1.21

2 Additional performance data for sizes not listed is available at www.shoemakermg.com

3 Throw values are measured in feet for terminal velocities of 100/75/50 FPM

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