



SpotDiffuser Performance Data (Metric)

Model: **PK/PK-E**

| SIZE | Approx.Nozzle Velocity | | 2.53 | | | | 5.06 | | | | 7.59 | | | | 10.12 | | | | 12.65 | | | | 15.18 | | | | 17.71 | | | | 20.24 | | | |
|------|-------------------------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|
| | Terminal Velocity, Vt | | 0.25 | 0.51 | 1.01 | 2.02 | 0.25 | 0.51 | 1.01 | 2.02 | 0.25 | 0.51 | 1.01 | 2.02 | 0.25 | 0.51 | 1.01 | 2.02 | 0.25 | 0.51 | 1.01 | 2.02 | 0.25 | 0.51 | 1.01 | 2.02 | 0.25 | 0.51 | 1.01 | 2.02 | 0.25 | 0.51 | 1.01 | 2.02 |
| 3 | Nozzle Area 0.011 sq.m | CMH | 8.5 | | | | 17 | | | | 26 | | | | 34 | | | | 43 | | | | 60 | | | | 68 | | | | 77 | | | |
| | | PA | 0.3 | | | | 0.8 | | | | 2.3 | | | | 4.8 | | | | 7.9 | | | | 19.1 | | | | 20.8 | | | | 27.9 | | | |
| | | NC | - | | | | - | | | | - | | | | <20 | | | | <20 | | | | 21 | | | | 23 | | | | 25 | | | |
| | | Throw (m) | 2.1 | 1.5 | 0.6 | - | 3.7 | 2.1 | 0.9 | - | 5.4 | 2.7 | 1.8 | 0.6 | 7.5 | 3.6 | 2.1 | 0.9 | 9.3 | 4.5 | 2.4 | 1.2 | 15.0 | 7.5 | 3.6 | 1.8 | 16.5 | 8.1 | 3.9 | 2.1 | 18.0 | 9.0 | 4.5 | 2.4 |
| 4 | Nozzle Area 0.0019 sq.m | CMH | 17 | | | | 34 | | | | 51 | | | | 68 | | | | 85 | | | | 102 | | | | 119 | | | | 136 | | | |
| | | PA | 0.3 | | | | 1.3 | | | | 3.6 | | | | 6.4 | | | | 9.9 | | | | 14.2 | | | | 20.3 | | | | 26.7 | | | |
| | | NC | - | | | | - | | | | <20 | | | | <20 | | | | 21 | | | | 24 | | | | 28 | | | | 32 | | | |
| | | Throw (m) | 2.7 | 1.8 | 0.9 | - | 5.4 | 3.0 | 1.5 | - | 8.1 | 4.2 | 2.1 | 0.9 | 10.8 | 5.4 | 2.7 | 1.5 | 13.2 | 6.9 | 3.6 | 1.8 | 15.9 | 8.4 | 4.2 | 2.1 | 19.5 | 9.6 | 4.8 | 2.4 | 22.5 | 11.1 | 5.4 | 2.7 |
| 5 | Nozzle Area 0.0034 sq.m | CMH | 34 | | | | 68 | | | | 102 | | | | 136 | | | | 153 | | | | 187 | | | | 221 | | | | 255 | | | |
| | | PA | 0.5 | | | | 1.8 | | | | 4.6 | | | | 7.9 | | | | 10.2 | | | | 17.3 | | | | 23.6 | | | | 33.0 | | | |
| | | NC | - | | | | - | | | | <20 | | | | <20 | | | | 22 | | | | 27 | | | | 32 | | | | 35 | | | |
| | | Throw (m) | 4.5 | 3.0 | 1.5 | - | 9 | 4.5 | 2.4 | 0.6 | 12.6 | 6.3 | 2.7 | 1.8 | 16.5 | 8.7 | 4.5 | 2.4 | 18.6 | 10.5 | 5.1 | 2.7 | 24.0 | 12.0 | 5.7 | 3.0 | 29.4 | 13.5 | 8.7 | 3.6 | 31.5 | 15.6 | 8.1 | 4.2 |
| 6 | Nozzle Area 0.0044 sq.m | CMH | 43 | | | | 85 | | | | 136 | | | | 170 | | | | 204 | | | | 255 | | | | 289 | | | | 323 | | | |
| | | PA | 0.5 | | | | 1.8 | | | | 4.6 | | | | 7.4 | | | | 11.2 | | | | 20.8 | | | | 23.6 | | | | 30.5 | | | |
| | | NC | - | | | | - | | | | <20 | | | | 20 | | | | 21 | | | | 27 | | | | 30 | | | | 33 | | | |
| | | Throw (m) | 5.7 | 3.0 | 1.5 | - | 9.0 | 4.8 | 2.4 | 1.2 | 15.0 | 7.5 | 3.9 | 2.4 | 19.5 | 9.3 | 5.1 | 2.7 | 24.0 | 11.1 | 6.0 | 3.0 | 30.0 | 13.5 | 6.9 | 3.6 | 33.5 | 16.5 | 8.4 | 4.2 | 37.5 | 15.0 | 9.0 | 4.5 |
| 7 | Nozzle Area 0.0063 sq.m | CMH | 60 | | | | 119 | | | | 187 | | | | 238 | | | | 289 | | | | 357 | | | | 408 | | | | 476 | | | |
| | | PA | 0.4 | | | | 1.5 | | | | 4.6 | | | | 7.1 | | | | 10.4 | | | | 16.5 | | | | 22.9 | | | | 31.8 | | | |
| | | NC | - | | | | - | | | | <20 | | | | 20 | | | | 25 | | | | 29 | | | | 34 | | | | 38 | | | |
| | | Throw (m) | 6.6 | 3.3 | 1.8 | 0.6 | 10.8 | 5.7 | 2.7 | 1.2 | 18.0 | 8.7 | 4.5 | 2.4 | 24.0 | 10.8 | 5.7 | 3.0 | 27.0 | 13.5 | 6.9 | 3.6 | 31.5 | 18.0 | 8.1 | 4.2 | 37.5 | 19.5 | 9.6 | 4.8 | 45.0 | 21.6 | 11.1 | 5.7 |
| 8 | Nozzle Area 0.0079 sq.m | CMH | 77 | | | | 153 | | | | 221 | | | | 289 | | | | 374 | | | | 442 | | | | 510 | | | | 578 | | | |
| | | PA | 0.4 | | | | 1.5 | | | | 4.3 | | | | 6.9 | | | | 9.7 | | | | 16.3 | | | | 23.4 | | | | 30.5 | | | |
| | | NC | - | | | | <20 | | | | <20 | | | | 22 | | | | 27 | | | | 33 | | | | 35 | | | | 39 | | | |
| | | Throw (m) | 7.5 | 3.6 | 2.1 | 1.2 | 12.0 | 6.0 | 3.6 | 1.8 | 18.6 | 9.0 | 4.8 | 2.7 | 25.5 | 11.7 | 6.0 | 3.3 | 31.5 | 15.6 | 8.1 | 3.9 | 37.5 | 18.6 | 9.0 | 5.1 | 45.0 | 21.6 | 10.5 | 5.7 | 48.6 | 24.0 | 11.4 | 6.0 |
| 10 | Nozzle Area 0.0153 sq.m | CMH | 145 | | | | 289 | | | | 425 | | | | 561 | | | | 714 | | | | 850 | | | | 986 | | | | 1122 | | | |
| | | PA | 0.4 | | | | 1.5 | | | | 3.6 | | | | 6.1 | | | | 11.2 | | | | 16.0 | | | | 23.4 | | | | 30.5 | | | |
| | | NC | - | | | | <20 | | | | <20 | | | | 20 | | | | 26 | | | | 30 | | | | 34 | | | | 38 | | | |
| | | Throw (m) | 9.0 | 4.5 | 2.4 | 1.5 | 16.5 | 9.0 | 4.2 | 2.1 | 27.0 | 12.6 | 6.6 | 3.0 | 33.6 | 16.5 | 8.7 | 4.2 | 44.4 | 21.6 | 10.8 | 5.1 | 48.6 | 25.2 | 12.6 | 6.3 | 57.0 | 30.0 | 14.4 | 7.2 | 67.5 | 33.6 | 16.5 | 8.4 |
| 12 | Nozzle Area 0.0214 sq.m | CMH | 196 | | | | 391 | | | | 595 | | | | 782 | | | | 986 | | | | 1173 | | | | 1377 | | | | 1564 | | | |
| | | PA | 0.3 | | | | 1.4 | | | | 3.0 | | | | 5.6 | | | | 10.9 | | | | 25.2 | | | | 23.4 | | | | 30.5 | | | |
| | | NC | - | | | | <20 | | | | <20 | | | | 23 | | | | 28 | | | | 32 | | | | 36 | | | | 40 | | | |
| | | Throw (m) | 10.5 | 5.1 | 2.7 | 1.8 | 19.8 | 10.5 | 5.1 | 2.5 | 30.0 | 15.0 | 8.1 | 3.9 | 41.1 | 19.5 | 10.2 | 5.1 | 48.6 | 24.6 | 12.6 | 6.6 | 56.1 | 30.0 | 15.0 | 7.8 | 66.0 | 33.6 | 17.1 | 8.7 | 75.0 | 39.0 | 21.0 | 10.2 |
| 16 | Nozzle Area 0.0417 sq.m | CMH | 383 | | | | 765 | | | | 1156 | | | | 1530 | | | | 1904 | | | | 2295 | | | | 2669 | | | | 3060 | | | |
| | | PA | 0.3 | | | | 1.5 | | | | 3.0 | | | | 5.3 | | | | 10.4 | | | | 15.7 | | | | 22.9 | | | | 29.2 | | | |
| | | NC | - | | | | 20 | | | | 21 | | | | 26 | | | | 29 | | | | 37 | | | | 40 | | | | 44 | | | |
| | | Throw (m) | 14.1 | 7.5 | 3.6 | 2.1 | 27.0 | 14.1 | 7.2 | 3.6 | 41.4 | 19.8 | 10.8 | 5.4 | 52.5 | 28.5 | 14.1 | 6.9 | 37.5 | 33.6 | 16.5 | 8.4 | 75.0 | 41.1 | 19.5 | 10.5 | 82.5 | 48.0 | 24.0 | 12.6 | 105.0 | 52.5 | 28.5 | 14.1 |
| 18 | Nozzle Area 0.0534 sq.m | CMH | 493 | | | | 986 | | | | 1462 | | | | 1955 | | | | 2448 | | | | 2924 | | | | 3417 | | | | 3910 | | | |
| | | PA | 0.3 | | | | 1.5 | | | | 2.5 | | | | 5.3 | | | | 10.7 | | | | 15.2 | | | | 22.9 | | | | 29.2 | | | |
| | | NC | - | | | | <20 | | | | 20 | | | | 25 | | | | 31 | | | | 35 | | | | 39 | | | | 42 | | | |
| | | Throw (m) | 16.5 | 8.1 | 3.9 | 2.1 | 33.6 | 16.5 | 8.1 | 3.9 | 45.6 | 29.4 | 12.0 | 6.0 | 60.0 | 33.0 | 15.6 | 7.8 | 75.0 | 37.5 | 20.1 | 9.9 | 90.0 | 46.5 | 23.4 | 12.0 | 105.0 | 52.5 | 27.0 | 14.1 | 120.0 | 60.0 | 33.0 | 14.4 |
| 20 | Nozzle Area 0.0758 sq.m | CMH | 697 | | | | 1394 | | | | 2091 | | | | 2771 | | | | 3468 | | | | 4165 | | | | 4845 | | | | 5542 | | | |
| | | PA | 0.3 | | | | 1.5 | | | | 3.0 | | | | 4.3 | | | | 10.4 | | | | 15.5 | | | | 22.9 | | | | 30.5 | | | |
| | | NC | - | | | | <20 | | | | 20 | | | | 27 | | | | 32 | | | | 38 | | | | 42 | | | | 45 | | | |
| | | Throw (m) | 21.0 | 11.4 | 6.0 | 3.0 | 45.0 | 22.5 | 11.7 | 5.4 | 66.0 | 33.7 | 16.8 | 8.7 | 82.5 | 45.0 | 22.5 | 11.1 | 105.0 | 52.5 | 27.0 | 14.1 | 120.0 | 63.6 | 33.6 | 16.8 | 127.5 | 75.0 | 37.5 | 19.5 | 135.0 | 82.5 | 45.0 | 22.5 |

DASHED LINE IN SP BOX INDICATES STATIC PRESSURE IS LESS THAN 0.254mmAq.
 DASHED LINE IN NC BOX INDICATES NOISE LEVEL IS LESS THAN 20.
 NC LEVEL IS BASED ON 10dB ROOM ATTENUATION(PWL RE:10-12 WATTS) WITH ONE DIFFUSER OPERATING.

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