

# Performance Data



## HVD Series

|     |           |       |       |        |       |       |        |       |       |        |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|-----|-----------|-------|-------|--------|-------|-------|--------|-------|-------|--------|------|------|----|----|---|----|----|---|----|----|----|----|----|----|----|----|
|     |           | FPM   | 300   | 400    | 500   | 600   | 700    | 800   | 1000  | 1200   |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | VP    | 0.006 | 0.01   | 0.016 | 0.022 | 0.031  | 0.04  | 0.062 | 0.075  |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
| 6"  | .195ft/sq | CFM   | 60    | 80     | 100   | 115   | 135    | 155   | 195   | 235    |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | SP    | 0.008 | 0.016  | 0.024 | 0.032 | 0.049  | 0.057 | 0.089 | 0.130  |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | TP    | 0.014 | 0.026  | 0.040 | 0.054 | 0.080  | 0.097 | 0.151 | 0.205  |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | NC    | -     | -      | -     | -     | 20     | 23    | 29    | 32     |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | Throw | 1     | 2      | 5     | 2     | 2      | 6     | 2     | 3      | 8    | 2    | 4  | 10 | 3 | 6  | 11 | 4 | 6  | 13 | 5  | 9  | 15 | 6  | 11 | 17 |
|     |           |       |       | FPM    | 300   | 400   | 500    | 600   | 700   | 800    | 1000 | 1200 |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
| 7"  | .265ft/sq | CFM   | 80    | 105    | 135   | 160   | 185    | 210   | 265   | 320    |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | SP    | 0.01  | 0.02   | 0.03  | 0.04  | 0.05   | 0.06  | 0.10  | 0.14   |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | TP    | 0.02  | 0.03   | 0.04  | 0.06  | 0.09   | 0.10  | 0.16  | 0.22   |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | NC    | -     | -      | -     | 18    | 23     | 28    | 35    | 37     |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | Throw | 1     | 2      | 5     | 2     | 3      | 7     | 2     | 4      | 9    | 3    | 5  | 11 | 4 | 6  | 13 | 5 | 7  | 14 | 5  | 10 | 16 | 6  | 13 | 19 |
|     |           |       |       | FPM    | 300   | 400   | 500    | 600   | 700   | 800    | 1000 | 1200 |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
| 8"  | .35ft/sq  | CFM   | 105   | 135    | 170   | 205   | 240    | 275   | 345   | 420    |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | SP    | 0.01  | 0.02   | 0.03  | 0.04  | 0.06   | 0.07  | 0.11  | 0.16   |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | TP    | 0.016 | 0.03   | 0.046 | 0.062 | 0.091  | 0.11  | 0.172 | 0.235  |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | NC    | -     | -      | -     | 20    | 26     | 31    | 39    | 42     |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | Throw | 1     | 2      | 6     | 2     | 3      | 8     | 2     | 4      | 10   | 3    | 5  | 12 | 4 | 7  | 14 | 5 | 8  | 16 | 6  | 11 | 18 | 7  | 14 | 21 |
|     |           |       |       | FPM    | 300   | 400   | 500    | 600   | 700   | 800    | 1000 | 1200 |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
| 9"  | .439ft/sq | CFM   | 130   | 175    | 220   | 265   | 305    | 350   | 440   | 525    |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | SP    | 0.015 | 0.0275 | 0.04  | 0.055 | 0.0775 | 0.095 | 0.135 | 0.1875 |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | TP    | 0.021 | 0.0375 | 0.056 | 0.077 | 0.1085 | 0.135 | 0.197 | 0.2625 |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | NC    | -     | -      | 18    | 22    | 28     | 32    | 39    | 42     |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | Throw | 2     | 3      | 8     | 3     | 5      | 11    | 4     | 6      | 13   | 5    | 7  | 15 | 6 | 9  | 17 | 7 | 11 | 19 | 8  | 14 | 21 | 10 | 17 | 24 |
|     |           |       |       | FPM    | 300   | 400   | 500    | 600   | 700   | 800    | 1000 | 1200 |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
| 10" | .542ft/sq | CFM   | 155   | 210    | 260   | 310   | 365    | 415   | 520   | 625    |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | SP    | 0.02  | 0.035  | 0.05  | 0.07  | 0.095  | 0.12  | 0.16  | 0.215  |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | TP    | 0.026 | 0.045  | 0.066 | 0.092 | 0.126  | 0.16  | 0.222 | 0.29   |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | NC    | -     | -      | 20    | 25    | 30     | 34    | 40    | 43     |      |      |    |    |   |    |    |   |    |    |    |    |    |    |    |    |
|     |           | Throw | 3     | 5      | 10    | 4     | 6      | 13    | 5     | 8      | 16   | 6    | 10 | 18 | 8 | 12 | 19 | 9 | 13 | 21 | 11 | 16 | 24 | 13 | 20 | 27 |

# Performance Data



## HVD Series

|     |           |       |       |    |      |       |       |    |       |    |       |       |      |    |       |    |       |       |    |    |       |    |    |       |    |    |
|-----|-----------|-------|-------|----|------|-------|-------|----|-------|----|-------|-------|------|----|-------|----|-------|-------|----|----|-------|----|----|-------|----|----|
| 12" | .77ft/sq  | FPM   | 300   |    | 400  |       | 500   |    | 600   |    | 700   |       | 800  |    | 1000  |    | 1200  |       |    |    |       |    |    |       |    |    |
|     |           | CFM   | 230   |    | 310  |       | 385   |    | 465   |    | 540   |       | 620  |    | 775   |    | 925   |       |    |    |       |    |    |       |    |    |
|     |           | SP    | 0.03  |    | 0.05 |       | 0.07  |    | 0.1   |    | 0.13  |       | 0.17 |    | 0.21  |    | 0.27  |       |    |    |       |    |    |       |    |    |
|     |           | TP    | 0.036 |    | 0.06 |       | 0.086 |    | 0.122 |    | 0.161 |       | 0.21 |    | 0.272 |    | 0.345 |       |    |    |       |    |    |       |    |    |
|     |           | NC    | -     |    | -    |       | 25    |    | 31    |    | 35    |       | 38   |    | 42    |    | 45    |       |    |    |       |    |    |       |    |    |
|     |           | Throw | 4     | 7  | 14   | 6     | 9     | 18 | 8     | 11 | 21    | 9     | 14   | 23 | 11    | 16 | 24    | 12    | 18 | 26 | 15    | 21 | 29 | 18    | 25 | 33 |
| 14" | 1.06ft/sq | FPM   | 300   |    |      | 400   |       |    | 500   |    |       | 600   |      |    | 700   |    |       | 800   |    |    | 1000  |    |    | 1200  |    |    |
|     |           | CFM   | 320   |    |      | 425   |       |    | 530   |    |       | 635   |      |    | 740   |    |       | 850   |    |    | 1060  |    |    | 1270  |    |    |
|     |           | SP    | 0.035 |    |      | 0.060 |       |    | 0.085 |    |       | 0.120 |      |    | 0.155 |    |       | 0.200 |    |    | 0.240 |    |    | 0.305 |    |    |
|     |           | TP    | 0.041 |    |      | 0.07  |       |    | 0.10  |    |       | 0.14  |      |    | 0.19  |    |       | 0.24  |    |    | 0.30  |    |    | 0.38  |    |    |
|     |           | NC    | -     |    |      | -     |       |    | 25    |    |       | 31    |      |    | 35    |    |       | 38    |    |    | 42    |    |    | 46    |    |    |
|     |           | Throw | 5     | 9  | 17   | 8     | 11    | 20 | 10    | 14 | 23    | 11    | 17   | 25 | 13    | 18 | 26    | 15    | 20 | 28 | 18    | 23 | 31 | 21    | 27 | 36 |
| 16" | 1.38ft/sq | FPM   | 300   |    |      | 400   |       |    | 500   |    |       | 600   |      |    | 700   |    |       | 800   |    |    | 1000  |    |    | 1200  |    |    |
|     |           | CFM   | 415   |    |      | 550   |       |    | 690   |    |       | 830   |      |    | 965   |    |       | 1105  |    |    | 1380  |    |    | 1655  |    |    |
|     |           | SP    | 0.04  |    |      | 0.07  |       |    | 0.10  |    |       | 0.14  |      |    | 0.18  |    |       | 0.23  |    |    | 0.27  |    |    | 0.34  |    |    |
|     |           | TP    | 0.05  |    |      | 0.08  |       |    | 0.12  |    |       | 0.16  |      |    | 0.21  |    |       | 0.27  |    |    | 0.33  |    |    | 0.42  |    |    |
|     |           | NC    | -     |    |      | 21    |       |    | 26    |    |       | 31    |      |    | 35    |    |       | 38    |    |    | 43    |    |    | 46    |    |    |
|     |           | Throw | 6     | 10 | 19   | 9     | 13    | 21 | 11    | 16 | 24    | 13    | 19   | 26 | 15    | 20 | 28    | 17    | 21 | 30 | 20    | 24 | 33 | 23    | 29 | 38 |

## 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 the chart are defined as the measurement of space between the blades actually being utilized by the air
- 4) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006