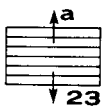
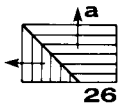
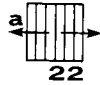


AVP Performance Data

2-Way Square, Rectangular

See Page TD-17 for Side A to B Throw Ratios



| SIZE IN INCHES | NECK VEL. | 400 | 450 | 500 | 550 | 600 | 650 | 700 |
|------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|
| | VEL. PRESS. | .010 | .013 | .016 | .019 | .023 | .026 | .031 |
| 6x6 Ak .13 | CFM | 100 | 112 | 125 | 137 | 150 | 162 | 175 |
| | Ft. Throw | 10-13 | 10-14 | 11-15 | 11-16 | 12-17 | 12-17 | 13-18 |
| | Tot. Press. | .048 | .059 | .075 | .089 | .107 | .121 | .141 |
| | NC | 18 | 19 | 21 | 22 | 23 | 24 | 26 |
| 9x9 Ak .28 | CFM | 224 | 252 | 280 | 308 | 336 | 364 | 392 |
| | Ft. Throw | 14-20 | 15-22 | 16-23 | 16-24 | 17-25 | 18-26 | 19-27 |
| | Tot. Press. | .037 | .046 | .059 | .068 | .081 | .094 | .109 |
| | NC | 20 | 21 | 23 | 24 | 26 | 27 | 28 |
| 12x12 Ak .49 | CFM | 400 | 450 | 500 | 550 | 600 | 650 | 700 |
| | Ft. Throw | 19-27 | 20-29 | 21-30 | 22-32 | 23-33 | 25-35 | 25-36 |
| | Tot. Press. | .056 | .070 | .086 | .103 | .123 | .143 | .166 |
| | NC | 21 | 22 | 24 | 26 | 27 | 28 | 30 |
| 15x15 Ak .74 | CFM | 624 | 702 | 780 | 858 | 936 | 1014 | 1092 |
| | Ft. Throw | 23-34 | 25-36 | 26-37 | 28-40 | 29-41 | 30-43 | 31-45 |
| | Tot. Press. | .055 | .064 | .084 | .099 | .118 | .140 | .159 |
| | NC | 24 | 26 | 28 | 30 | 31 | 33 | 35 |
| 18x18 Ak 1.05 | CFM | 900 | 1012 | 1125 | 1240 | 1350 | 1462 | 1575 |
| | Ft. Throw | 24-34 | 25-36 | 27-38 | 28-40 | 29-42 | 31-43 | 32-44 |
| | Tot. Press. | .065 | .080 | .096 | .113 | .138 | .161 | .186 |
| | NC | 27 | 30 | 32 | 34 | 36 | 37 | 40 |
| 21x21 Ak 1.42 | CFM | 1224 | 1377 | 1530 | 1683 | 1836 | 1990 | 2142 |
| | Ft. Throw | 33-47 | 35-50 | 37-53 | 39-56 | 41-58 | 42-61 | 44-63 |
| | Tot. Press. | .062 | .077 | .096 | .114 | .138 | .159 | .186 |
| | NC | 27 | 29 | 30 | 33 | 34 | 36 | 39 |
| 24x24 Ak 1.845 | CFM | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 |
| | Ft. Throw | 38-54 | 41-58 | 43-61 | 45-64 | 47-66 | 48-69 | 50-72 |
| | Tot. Press. | .062 | .079 | .098 | .117 | .141 | .163 | .191 |
| | NC | 27 | 29 | 31 | 33 | 35 | 37 | 40 |
| 6x9 Ak 1.95 | CFM | 150 | 169 | 188 | 206 | 225 | 244 | 262 |
| | Ft. Throw | 12-16 | 12-17 | 13-18 | 14-19 | 14-20 | 15-21 | 15-22 |
| | Tot. Press. | .058 | .073 | .089 | .104 | .126 | .147 | .167 |
| | NC | 19 | 20 | 22 | 23 | 25 | 26 | 27 |
| 6x12 Ak .25 | CFM | 200 | 225 | 250 | 275 | 300 | 325 | 350 |
| | Ft. Throw | 13-19 | 14-20 | 16-22 | 16-23 | 17-24 | 18-25 | 18-26 |
| | Tot. Press. | .050 | .063 | .084 | .101 | .123 | .138 | .161 |
| | NC | 20 | 21 | 23 | 24 | 26 | 27 | 29 |
| 9x12 Ak .37 | CFM | 300 | 338 | 375 | 413 | 450 | 488 | 525 |
| | Ft. Throw | 18-24 | 20-25 | 21-26 | 21-27 | 22-29 | 24-29 | 25-31 |
| | Tot. Press. | .046 | .070 | .085 | .103 | .121 | .142 | .157 |
| | NC | 23 | 25 | 27 | 29 | 30 | 32 | 34 |
| 9x15 Ak .47 | CFM | 375 | 422 | 469 | 516 | 563 | 610 | 656 |
| | Ft. Throw | 18-26 | 20-28 | 21-29 | 21-31 | 22-32 | 24-34 | 25-35 |
| | Tot. Press. | .049 | .070 | .090 | .107 | .118 | .151 | .171 |
| | NC | 21 | 23 | 25 | 27 | 28 | 30 | 31 |
| 9x18 Ak .54 | CFM | 450 | 506 | 563 | 619 | 675 | 731 | 788 |
| | Ft. Throw | 20-29 | 21-30 | 23-32 | 24-33 | 25-35 | 26-37 | 26-39 |
| | Tot. Press. | .059 | .073 | .090 | .107 | .131 | .146 | .174 |
| | NC | 21 | 23 | 25 | 26 | 28 | 30 | 31 |
| 9x21 Ak .63 | CFM | 524 | 590 | 655 | 720 | 786 | 852 | 917 |
| | Ft. Throw | 22-31 | 23-33 | 24-35 | 25-36 | 26-38 | 28-40 | 29-41 |
| | Tot. Press. | .050 | .062 | .076 | .089 | .106 | .122 | .141 |
| | NC | 23 | 25 | 26 | 28 | 30 | 32 | 34 |
| 12x15 Ak .60 | CFM | 500 | 562 | 625 | 688 | 750 | 813 | 875 |
| | Ft. Throw | 21-30 | 22-32 | 24-34 | 25-35 | 26-37 | 27-39 | 28-40 |
| | Tot. Press. | .059 | .075 | .090 | .109 | .131 | .151 | .175 |
| | NC | 23 | 24 | 26 | 28 | 29 | 30 | 31 |
| 12x18 Ak .715 | CFM | 600 | 675 | 750 | 825 | 900 | 975 | 1050 |
| | Ft. Throw | 23-33 | 24-35 | 25-37 | 27-38 | 29-41 | 30-42 | 31-44 |
| | Tot. Press. | .061 | .075 | .092 | .110 | .130 | .151 | .176 |
| | NC | 24 | 26 | 28 | 30 | 31 | 33 | 34 |
| 12x21 Ak .825 ** | CFM | 700 | 788 | 875 | 963 | 1050 | 1138 | 1225 |
| | Ft. Throw | 23-36 | 25-38 | 26-40 | 27-42 | 29-44 | 30-46 | 31-48 |
| | Tot. Press. | .061 | .076 | .092 | .113 | .133 | .156 | .183 |
| | NC | 25 | 27 | 29 | 31 | 33 | 35 | 37 |
| 12x24 Ak .94 ** | CFM | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 |
| | Ft. Throw | 27-38 | 28-41 | 30-43 | 32-45 | 33-47 | 35-49 | 35-51 |
| | Tot. Press. | .060 | .077 | .094 | .113 | .133 | .156 | .183 |
| | NC | 27 | 29 | 31 | 33 | 35 | 37 | 39 |

NOTES ON PERFORMANCE DATA

1. Throw is based on a 0° temperature differential. Minimum throw is to a terminal velocity Vt of 100 FPM, and maximum to 50 FPM.
2. All pressures are inches of water. To obtain static pressure, subtract velocity pressure at head of column from total pressure.
3. The NC values are based on a room absorption of 18 Db, re 10⁻¹³ watts.
4. CFM = Ak × Vj. Where Vj is Velocity in FPM as read on Anor Velometer with 2220A Jet.

**Unit ratings are extrapolated.