

API-F-50 (1/2" SLOT) • ONE WAY DISCHARGE

| | | | | | | | | | | | | |
|------------|--------------------|-------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| 24" Length | 1 SLOT 5" Inlet | CFM | 23 | 25 | 27 | 32 | 36 | 41 | 45 | 50 | 54 | 59 |
| | | Pt | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.10 | 0.12 |
| | | NC | <20 | <20 | <20 | 20 | 23 | 25 | 27 | 30 | 31 | 33 |
| | | Throw | 2 3 5 | 2 3 6 | 2 3 6 | 2 4 7 | 3 4 8 | 3 5 10 | 4 5 10 | 4 6 11 | 4 6 11 | 5 7 12 |
| 24" Length | 2 SLOT 6" Inlet | CFM | 40 | 44 | 48 | 56 | 64 | 72 | 80 | 88 | 96 | 104 |
| | | Pt | 0.02 | 0.03 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.13 | 0.15 |
| | | NC | <20 | <20 | <20 | 22 | 24 | 27 | 29 | 31 | 33 | 35 |
| | | Throw | 2 4 7 | 3 4 8 | 3 4 8 | 3 5 10 | 4 6 11 | 4 6 13 | 5 7 14 | 5 8 15 | 6 8 15 | 6 9 16 |
| 48" Length | 1 SLOT 6" Inlet | CFM | 45 | 50 | 54 | 63 | 72 | 81 | 90 | 99 | 108 | 117 |
| | | Pt | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.10 | 0.12 |
| | | NC | <20 | <20 | <20 | 23 | 26 | 28 | 30 | 33 | 34 | 36 |
| | | Throw | 3 4 8 | 3 4 8 | 3 5 9 | 4 5 11 | 4 6 12 | 5 7 14 | 5 8 15 | 6 8 15 | 6 9 16 | 7 10 17 |
| 48" Length | 2 SLOT 8" Inlet | CFM | 80 | 88 | 96 | 112 | 128 | 144 | 160 | 176 | 192 | 208 |
| | | Pt | 0.02 | 0.03 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.13 | 0.15 |
| | | NC | <20 | <20 | 21 | 25 | 27 | 30 | 32 | 34 | 36 | 38 |
| | | Throw | 3 5 10 | 4 6 11 | 4 6 12 | 5 7 14 | 5 8 16 | 6 9 18 | 7 10 20 | 7 11 21 | 8 12 22 | 9 13 22 |

API-F-75 (3/4" SLOT) • ONE WAY DISCHARGE

| | | | | | | | | | | | | |
|------------|---------------------|-------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 24" Length | 1 SLOT 6" Inlet | CFM | 47 | 53 | 60 | 67 | 73 | 80 | 87 | 93 | 100 | 107 |
| | | Pt | 0.05 | 0.06 | 0.08 | 0.10 | 0.12 | 0.14 | 0.16 | 0.19 | 0.21 | 0.24 |
| | | NC | <20 | <20 | 22 | 25 | 27 | 29 | 31 | 33 | 35 | 36 |
| | | Throw | 3 5 9 | 3 5 10 | 4 6 12 | 4 6 13 | 5 7 13 | 5 8 14 | 6 8 14 | 6 9 15 | 6 10 16 | 7 10 16 |
| 24" Length | 2 SLOT 8" Inlet | CFM | 80 | 90 | 110 | 120 | 130 | 140 | 150 | 170 | 180 | 190 |
| | | Pt | 0.05 | 0.06 | 0.10 | 0.12 | 0.13 | 0.16 | 0.18 | 0.23 | 0.26 | 0.29 |
| | | NC | <20 | 20 | 25 | 27 | 29 | 31 | 32 | 36 | 37 | 38 |
| | | Throw | 4 6 12 | 4 7 13 | 5 8 16 | 6 9 17 | 6 9 18 | 7 10 18 | 7 11 19 | 8 12 20 | 9 13 21 | 9 14 21 |
| 48" Length | 1 SLOT 8" Inlet | CFM | 90 | 110 | 120 | 130 | 150 | 160 | 170 | 190 | 200 | 210 |
| | | Pt | 0.04 | 0.07 | 0.08 | 0.09 | 0.12 | 0.14 | 0.16 | 0.19 | 0.22 | 0.24 |
| | | NC | <20 | 23 | 25 | 27 | 30 | 32 | 34 | 36 | 38 | 39 |
| | | Throw | 4 6 12 | 5 8 15 | 5 8 16 | 6 9 18 | 7 10 19 | 7 11 20 | 8 12 20 | 9 13 21 | 9 14 22 | 10 14 23 |
| 48" Length | 2 SLOT 10" Inlet | CFM | 170 | 190 | 210 | 240 | 260 | 280 | 310 | 330 | 360 | 380 |
| | | Pt | 0.06 | 0.07 | 0.09 | 0.12 | 0.13 | 0.16 | 0.19 | 0.22 | 0.26 | 0.29 |
| | | NC | 22 | 24 | 27 | 30 | 32 | 34 | 36 | 38 | 40 | 41 |
| | | Throw | 6 9 17 | 7 10 20 | 7 11 22 | 8 12 24 | 9 13 25 | 10 14 26 | 11 16 27 | 11 17 28 | 12 18 30 | 13 20 30 |

API-F-10 (1" SLOT) • ONE WAY DISCHARGE

| | | | | | | | | | | | | |
|------------|---------------------|-------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 24" Length | 1 SLOT 6" Inlet | CFM | 57 | 63 | 69 | 76 | 82 | 88 | 95 | 101 | 107 | 113 |
| | | Pt | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.11 | 0.12 |
| | | NC | <20 | 21 | 24 | 26 | 28 | 30 | 31 | 33 | 34 | 36 |
| | | Throw | 4 6 11 | 4 6 12 | 5 7 13 | 5 8 14 | 5 8 14 | 6 9 15 | 6 9 15 | 7 10 16 | 7 11 16 | 8 11 17 |
| 24" Length | 2 SLOT 8" Inlet | CFM | 100 | 110 | 120 | 130 | 150 | 160 | 170 | 180 | 190 | 200 |
| | | Pt | 0.04 | 0.04 | 0.05 | 0.06 | 0.08 | 0.09 | 0.10 | 0.12 | 0.13 | 0.14 |
| | | NC | 21 | 23 | 25 | 27 | 31 | 32 | 34 | 35 | 36 | 38 |
| | | Throw | 5 7 15 | 5 8 16 | 6 9 17 | 6 10 18 | 7 11 19 | 8 12 20 | 8 13 20 | 9 13 21 | 9 14 21 | 10 15 22 |
| 48" Length | 1 SLOT 10" Inlet | CFM | 110 | 130 | 140 | 150 | 160 | 180 | 190 | 200 | 210 | 230 |
| | | Pt | 0.03 | 0.04 | 0.05 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 | 0.12 |
| | | NC | 21 | 25 | 27 | 29 | 30 | 33 | 34 | 36 | 37 | 39 |
| | | Throw | 5 8 15 | 6 9 18 | 7 10 18 | 7 11 19 | 8 11 20 | 8 13 21 | 9 13 21 | 9 14 22 | 10 15 23 | 11 16 24 |
| 48" Length | 2 SLOT 12" Inlet | CFM | 200 | 220 | 250 | 270 | 290 | 310 | 340 | 360 | 380 | 400 |
| | | Pt | 0.04 | 0.04 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 | 0.12 | 0.13 | 0.14 |
| | | NC | 24 | 26 | 29 | 31 | 33 | 34 | 37 | 38 | 39 | 41 |
| | | Throw | 7 11 21 | 8 12 23 | 9 13 25 | 10 14 26 | 10 15 26 | 11 16 27 | 12 18 29 | 13 19 30 | 13 20 30 | 14 21 31 |

Test Standard

- ANSI / ASHRAE standard 70
- Isothermal air used during testing.

Throw

- The numbers shown are throw distances, in feet, measured from the diffuser relating to terminal velocities of 150, 100, & 50 fpm, with the jet attached to the ceiling surface.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- Throws shown are for 1-way discharge pattern. For 2 way, proportion air quantity based on number of slots in each direction and refer to the throw data applicable to each individual direction.

Sound Levels

- NC shown is the noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.

Pressure

- PS represents static pressure, inches of water