

PERFORMANCE DATA:

Models UNI-PD • 24 x 24 (600 x 600) Face Size • 4-way Blow (360° Pattern)

| Nominal Neck Size | Neck Velocity, FPM | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 |
|-------------------|-----------------------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| | Velocity Pressure | .010 | .016 | .023 | .031 | .040 | .051 | .063 | .090 | .122 | .160 |
| 12" Dia. | Total Pressure | .018 | .028 | .041 | .055 | .072 | .092 | .113 | .163 | .221 | .289 |
| | Airflow, CFM | 315 | 390 | 470 | 550 | 630 | 705 | 785 | 990 | 1100 | 1255 |
| | Horizontal Throws, Ft. H | 2-3-4 | 3-5-7 | 3-5-8 | 4-6-8 | 5-6-10 | 5-7-11 | 6-8-10 | 6-9-12 | 8-11-13 | 9-12-16 |
| | Vertical Projections, Ft. V | 6-9 | 8-10 | 8-10 | 9-12 | 10-13 | 12-14 | 15-17 | 16-18 | 17-19 | 20-21 |
| | Noise Criteria | — | — | — | 13 | 18 | 22 | 26 | 34 | 38 | 42 |
| 14" Dia. | Total Pressure | .023 | .036 | .051 | .070 | .092 | .116 | .143 | .206 | .280 | .366 |
| | Airflow, CFM | 425 | 530 | 635 | 745 | 850 | 955 | 1060 | 1270 | 1490 | 1695 |
| | Horizontal Throws, Ft. H | 2-4-5 | 3-5-6 | 4-5-7 | 5-6-7 | 5-6-8 | 6-7-8 | 6-7-9 | 7-9-11 | 8-10-13 | 9-11-14 |
| | Vertical Projections, Ft. V | 8-11 | 9-12 | 9-13 | 10-14 | 11-15 | 12-16 | 13-17 | 15-19 | 17-21 | 19-23 |
| | Noise Criteria | — | — | — | 15 | 20 | 24 | 28 | 36 | 40 | 44 |

Performance Notes:

1. Horizontal throws are given at a terminal velocity of 150, 100 and 50 fpm under isothermal conditions.

Horizontal throws for non-isothermal air are determined by applying the following correction factors to the catalogued values:

| ΔT | Factor |
|-------------|--------|
| - 20°F clg. | x 1.20 |
| + 20°F htg. | x 0.85 |

Vertical projections are given at a terminal velocity of 50 fpm. Minimum projections are for a 20°F heating temperature differential and maximum projections are for a 20°F cooling differential.

2. Horizontal/Vertical apportion of the airflow:

12" neck approximately 60/40%.

14" neck approximately 65/35%.

3. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.

4. Noise Criteria (NC) values are based upon 10dB room absorption, re 10^{-12} watts. Dash (—) in space indicates an Noise Criteria of less than 10.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.