

## PERFORMANCE DATA:

### Models UNI2, AUNI2 and UNI2-HH • 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     |
| 6" Dia.           | Total Pressure     | .010   | .020    | .030    | .041     | .053     | .068     | .084     | .120     | .164     | .214     |
|                   | Airflow, CFM       | 80     | 100     | 120     | 140      | 160      | 180      | 200      | 235      | 275      | 315      |
|                   | Throw              | 1-3-4  | 1-3-4   | 2-4-5   | 2-4-6    | 2-5-6    | 3-4-7    | 3-5-8    | 4-6-9    | 4-6-10   | 5-6-10   |
|                   | Noise Criteria     | —      | —       | —       | —        | 14       | 18       | 22       | 28       | 34       | 39       |
| 8" Dia.           | Total Pressure     | .018   | .028    | .037    | .056     | .072     | .092     | .112     | .162     | .220     | .288     |
|                   | Airflow, CFM       | 140    | 175     | 210     | 245      | 280      | 315      | 350      | 420      | 490      | 560      |
|                   | Throw              | 2-2-4  | 2-3-5   | 2-3-7   | 3-4-8    | 3-5-9    | 4-6-9    | 5-7-10   | 6-8-11   | 7-9-12   | 8-10-13  |
|                   | Noise Criteria     | —      | —       | —       | 13       | 18       | 22       | 26       | 32       | 38       | 43       |
| 10" Dia.          | Total Pressure     | .031   | .048    | .069    | .093     | .122     | .155     | .191     | .275     | .375     | .489     |
|                   | Airflow, CFM       | 220    | 270     | 330     | 380      | 435      | 490      | 545      | 655      | 765      | 870      |
|                   | Throw              | 3-4-7  | 3-5-9   | 3-5-10  | 4-6-12   | 5-7-13   | 5-8-13   | 7-9-14   | 8-11-15  | 10-12-17 | 11-13-18 |
|                   | Noise Criteria     | —      | —       | 10      | 16       | 21       | 25       | 29       | 35       | 41       | 46       |
| 12" Dia.          | Total Pressure     | .040   | .063    | .090    | .123     | .161     | .203     | .251     | .361     | .492     | .643     |
|                   | Airflow, CFM       | 315    | 390     | 470     | 550      | 630      | 705      | 785      | 940      | 1100     | 1255     |
|                   | Throw              | 4-5-10 | 4-7-13  | 5-8-14  | 7-9-16   | 8-11-17  | 8-12-17  | 10-14-19 | 11-15-20 | 14-17-23 | 16-18-25 |
|                   | Noise Criteria     | —      | —       | 13      | 19       | 24       | 28       | 32       | 38       | 44       | 49       |
| 14" Dia.          | Total Pressure     | .054   | .083    | .120    | .163     | .214     | .270     | .334     | .481     | .655     | .855     |
|                   | Airflow, CFM       | 425    | 530     | 635     | 745      | 850      | 955      | 1060     | 1270     | 1490     | 1695     |
|                   | Throw              | 5-7-14 | 6-9-16  | 7-11-18 | 10-13-20 | 11-15-23 | 11-17-23 | 14-19-26 | 16-21-28 | 19-22-31 | 20-24-33 |
|                   | Noise Criteria     | —      | —       | 15      | 21       | 26       | 30       | 34       | 40       | 46       | 51       |
| 15" Dia.          | Total Pressure     | .065   | .102    | .147    | .200     | .260     | .330     | .408     | .588     | .799     | 1.044    |
|                   | Airflow, CFM       | 490    | 615     | 735     | 860      | 985      | 1110     | 1230     | 1470     | 1720     | 1970     |
|                   | Throw              | 6-9-17 | 7-11-19 | 9-13-21 | 11-16-24 | 14-19-26 | 14-20-27 | 16-21-30 | 19-24-33 | 23-26-35 | 23-27-38 |
|                   | Noise Criteria     | —      | —       | 16      | 22       | 27       | 31       | 35       | 41       | 47       | 52       |

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.

3. Noise Criteria (NC) values are based upon 10dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in space indicates an Noise Criteria of less than 10.
4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

| Neck Size Diameter in Inches | Nominal Overall Face Size | Ak Factor |
|------------------------------|---------------------------|-----------|
| 6                            | 24 x 24                   | .206      |
| 8                            | 24 x 24                   | .248      |
| 10                           | 24 x 24                   | .315      |
| 12                           | 24 x 24                   | .384      |
| 14                           | 24 x 24                   | .437      |
| 15                           | 24 x 24                   | .485      |