

# PERFORMANCE DATA

## STG

| Core Area<br>(sq. ft.) | Nominal Size |         |         | Core Velocity (fpm)             | 100    | 150   | 200   | 250   | 300   | 350   | 400   |
|------------------------|--------------|---------|---------|---------------------------------|--------|-------|-------|-------|-------|-------|-------|
|                        |              |         |         | Velocity Pressure (in. w.g.)    | 0.0006 | 0.001 | 0.002 | 0.004 | 0.006 | 0.008 | 0.010 |
|                        |              |         |         | Neg. Static Pressure (in. w.g.) | 0.011  | 0.026 | 0.046 | 0.073 | 0.104 | 0.141 | 0.186 |
| 0.25                   | 10 x 4       | 7 x 6   |         | Flow Rate (cfm)                 | 25     | 38    | 50    | 63    | 75    | 88    | 100   |
|                        | 8 x 5        |         |         | Sound (NC)                      | -      | -     | -     | -     | 16    | 20    | 24    |
| 0.50                   | 24 x 4       | 16 x 6  |         | Flow Rate (cfm)                 | 50     | 75    | 100   | 125   | 150   | 175   | 200   |
|                        | 18 x 5       |         |         | Sound (NC)                      | -      | -     | -     | 20    | 26    | 29    | 32    |
| 0.75                   | 32 x 4       | 20 x 6  | 12 x 10 | Flow Rate (cfm)                 | 75     | 113   | 150   | 188   | 225   | 263   | 300   |
|                        | 26 x 5       | 16 x 8  |         | Sound (NC)                      | -      | -     | 19    | 25    | 30    | 34    | 37    |
| 1.00                   | 28 x 6       | 16 x 10 |         | Flow Rate (cfm)                 | 100    | 150   | 200   | 250   | 300   | 350   | 400   |
|                        | 20 x 8       | 14 x 12 |         | Sound (NC)                      | -      | 15    | 23    | 29    | 33    | 37    | 41    |
| 1.50                   | 30 x 8       | 20 x 12 |         | Flow Rate (cfm)                 | 150    | 225   | 300   | 375   | 450   | 525   | 600   |
|                        | 24 x 10      | 16 x 14 |         | Sound (NC)                      | -      | 20    | 28    | 33    | 38    | 42    | 45    |
| 2.00                   | 40 x 8       | 26 x 12 | 20 x 16 | Flow Rate (cfm)                 | 200    | 300   | 400   | 500   | 600   | 700   | 800   |
|                        | 32 x 10      | 22 x 14 |         | Sound (NC)                      | -      | 24    | 31    | 37    | 42    | 46    | 49    |
| 2.50                   | 40 x 10      | 28 x 14 | 22 x 18 | Flow Rate (cfm)                 | 250    | 375   | 500   | 625   | 750   | 875   | 1000  |
|                        | 32 x 12      | 24 x 16 |         | Sound (NC)                      | 16     | 27    | 34    | 40    | 44    | 48    | 52    |
| 3.00                   | 40 x 12      | 30 x 16 | 24 x 20 | Flow Rate (cfm)                 | 300    | 450   | 600   | 750   | 900   | 1050  | 1200  |
|                        | 34 x 14      | 26 x 18 |         | Sound (NC)                      | 18     | 29    | 36    | 42    | 47    | 50    | 54    |
| 3.50                   | 38 x 14      | 30 x 18 | 24 x 22 | Flow Rate (cfm)                 | 350    | 525   | 700   | 875   | 1050  | 1225  | 1400  |
|                        | 34 x 16      | 28 x 20 |         | Sound (NC)                      | 20     | 31    | 38    | 44    | 48    | 52    | 56    |
| 4.00                   | 38 x 16      | 32 x 20 | 26 x 24 | Flow Rate (cfm)                 | 400    | 600   | 800   | 1000  | 1200  | 1400  | 1600  |
|                        | 34 x 18      | 28 x 22 |         | Sound (NC)                      | 22     | 32    | 40    | 45    | 50    | 54    | 57    |
| 4.50                   | 38 x 18      | 32 x 22 | 26 x 26 | Flow Rate (cfm)                 | 450    | 675   | 900   | 1125  | 1350  | 1575  | 1800  |
|                        | 34 x 20      | 28 x 24 |         | Sound (NC)                      | 23     | 34    | 41    | 47    | 51    | 55    | 59    |
| 5.00                   | 38 x 20      | 32 x 24 | 28 x 28 | Flow Rate (cfm)                 | 500    | 750   | 1000  | 1250  | 1500  | 1750  | 2000  |
|                        | 34 x 22      | 30 x 26 |         | Sound (NC)                      | 25     | 35    | 42    | 48    | 53    | 57    | 60    |

**Performance Notes:**

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.  
s.p. = Static Pressure
4. NC values are based on room absorption of 10 dB, re 10<sup>-12</sup> watts.
5. Blanks "-" indicate an NC level below 15.