



# ENGINEERING DATA

## S2300(A), A2300(A)

### Fixed Pattern - Horizontal Throw 12"x12"

|            | IP Data     |             |       |       |             |       | Metric Data |             |      |      |                 |
|------------|-------------|-------------|-------|-------|-------------|-------|-------------|-------------|------|------|-----------------|
|            | Neck<br>Vel | Air<br>Flow | Ps    | Pt    | Throw       | Sound | Neck<br>Vel | Air<br>Flow | Ps   | Pt   | Throw           |
|            | fpm         | cfm         | inWg  | inWg  | ft          | NC    | m/s         | L/s         | Pa   | Pa   | m               |
| 4"<br>Dia. | 400         | 35          | 0.002 | 0.012 | 1 - 1 - 3   | -     | 2.03        | 17          | 0.5  | 3.0  | 0.3 - 0.3 - 0.9 |
|            | 500         | 44          | 0.002 | 0.018 | 1 - 2 - 4   | -     | 2.54        | 21          | 0.5  | 4.5  | 0.3 - 0.6 - 1.2 |
|            | 600         | 52          | 0.004 | 0.026 | 1 - 2 - 4   | -     | 3.05        | 25          | 1.0  | 6.5  | 0.3 - 0.6 - 1.2 |
|            | 700         | 61          | 0.004 | 0.035 | 2 - 3 - 5   | -     | 3.56        | 29          | 1.0  | 8.7  | 0.6 - 0.9 - 1.5 |
|            | 800         | 70          | 0.006 | 0.046 | 2 - 3 - 6   | 12    | 4.06        | 33          | 1.5  | 11.5 | 0.6 - 0.9 - 1.8 |
|            | 1000        | 87          | 0.010 | 0.072 | 2 - 4 - 7   | 20    | 5.08        | 41          | 2.5  | 17.9 | 0.6 - 1.2 - 2.1 |
|            | 1200        | 105         | 0.014 | 0.104 | 3 - 4 - 7   | 26    | 6.10        | 50          | 3.5  | 25.9 | 0.9 - 1.2 - 2.1 |
|            | 1400        | 122         | 0.019 | 0.141 | 3 - 5 - 8   | 31    | 7.11        | 58          | 4.7  | 35.1 | 0.9 - 1.5 - 2.4 |
|            | 1600        | 140         | 0.024 | 0.184 | 4 - 6 - 8   | 36    | 8.13        | 66          | 6.0  | 45.8 | 1.2 - 1.8 - 2.4 |
| 5"<br>Dia. | 400         | 55          | .005  | 0.015 | 1 - 2 - 4   | -     | 2.03        | 26          | 1.2  | 3.7  | 0.3 - 0.6 - 1.2 |
|            | 500         | 68          | .007  | 0.023 | 2 - 2 - 5   | -     | 2.54        | 32          | 1.7  | 5.7  | 0.6 - 0.6 - 1.5 |
|            | 600         | 82          | .011  | 0.033 | 2 - 3 - 6   | -     | 3.05        | 39          | 2.7  | 8.2  | 0.6 - 0.9 - 1.8 |
|            | 700         | 95          | .013  | 0.044 | 2 - 3 - 7   | -     | 3.56        | 45          | 3.2  | 11.0 | 0.6 - 0.9 - 2.1 |
|            | 800         | 109         | .018  | 0.058 | 2 - 4 - 7   | 15    | 4.06        | 51          | 4.5  | 14.4 | 0.6 - 1.2 - 2.1 |
|            | 1000        | 136         | .029  | 0.091 | 3 - 5 - 8   | 23    | 5.08        | 64          | 7.2  | 22.7 | 0.9 - 1.5 - 2.4 |
|            | 1200        | 164         | .041  | 0.131 | 4 - 6 - 9   | 29    | 6.10        | 77          | 10.2 | 32.6 | 1.2 - 1.8 - 2.7 |
|            | 1400        | 191         | .056  | 0.178 | 4 - 7 - 10  | 34    | 7.11        | 90          | 13.9 | 44.3 | 1.2 - 2.1 - 3.0 |
|            | 1600        | 218         | .072  | 0.232 | 5 - 7 - 10  | 39    | 8.13        | 103         | 17.9 | 57.8 | 1.5 - 2.1 - 3.0 |
| 6"<br>Dia. | 400         | 79          | .008  | 0.018 | 2 - 2 - 5   | -     | 2.03        | 37          | 2.0  | 4.5  | 0.6 - 0.6 - 1.5 |
|            | 500         | 98          | .012  | 0.028 | 2 - 3 - 6   | -     | 2.54        | 46          | 3.0  | 7.0  | 0.6 - 0.9 - 1.8 |
|            | 600         | 118         | .019  | 0.041 | 2 - 3 - 7   | -     | 3.05        | 56          | 4.7  | 10.2 | 0.6 - 0.9 - 2.1 |
|            | 700         | 137         | .025  | 0.056 | 3 - 4 - 8   | 13    | 3.56        | 65          | 6.2  | 13.9 | 0.9 - 1.2 - 2.4 |
|            | 800         | 157         | .033  | 0.073 | 3 - 5 - 9   | 18    | 4.06        | 74          | 8.2  | 18.2 | 0.9 - 1.5 - 2.7 |
|            | 1000        | 196         | .052  | 0.114 | 4 - 6 - 10  | 25    | 5.08        | 93          | 12.9 | 28.4 | 1.2 - 1.8 - 3.0 |
|            | 1200        | 236         | .074  | 0.164 | 5 - 7 - 11  | 32    | 6.10        | 111         | 18.4 | 40.8 | 1.5 - 2.1 - 3.4 |
|            | 1400        | 275         | .101  | 0.223 | 5 - 8 - 12  | 37    | 7.11        | 130         | 25.1 | 55.5 | 1.5 - 2.4 - 3.7 |
|            | 1600        | 314         | .131  | 0.291 | 6 - 9 - 13  | 42    | 8.13        | 148         | 32.6 | 72.5 | 1.8 - 2.7 - 4.0 |
| 7"<br>Dia. | 400         | 107         | .010  | 0.020 | 2 - 3 - 5   | -     | 2.03        | 50          | 2.5  | 5.0  | 0.6 - 0.9 - 1.5 |
|            | 500         | 134         | .015  | 0.031 | 2 - 3 - 7   | -     | 2.54        | 63          | 3.7  | 7.7  | 0.6 - 0.9 - 2.1 |
|            | 600         | 160         | .023  | 0.045 | 3 - 4 - 8   | -     | 3.05        | 76          | 5.7  | 11.2 | 0.9 - 1.2 - 2.4 |
|            | 700         | 187         | .031  | 0.062 | 3 - 5 - 9   | 15    | 3.56        | 88          | 7.7  | 15.4 | 0.9 - 1.5 - 2.7 |
|            | 800         | 214         | .041  | 0.081 | 4 - 5 - 10  | 20    | 4.06        | 101         | 10.2 | 20.2 | 1.2 - 1.5 - 3.0 |
|            | 1000        | 267         | .064  | 0.126 | 4 - 7 - 12  | 28    | 5.08        | 126         | 15.9 | 31.4 | 1.2 - 2.1 - 3.7 |
|            | 1200        | 321         | .091  | 0.181 | 5 - 8 - 13  | 34    | 6.10        | 151         | 22.7 | 45.1 | 1.5 - 2.4 - 4.0 |
|            | 1400        | 374         | .125  | 0.247 | 6 - 9 - 14  | 39    | 7.11        | 177         | 31.1 | 61.5 | 1.8 - 2.7 - 4.3 |
|            | 1600        | 428         | .162  | 0.322 | 7 - 10 - 15 | 44    | 8.13        | 202         | 40.3 | 80.2 | 2.1 - 3.0 - 4.6 |

Ceiling  
Diffusers



# ENGINEERING DATA

## S2300(A), A2300(A)

Fixed Pattern - Horizontal Throw 12"x12"

|         | IP Data  |          |      |       |             |       | Metric Data |          |      |      |                 |
|---------|----------|----------|------|-------|-------------|-------|-------------|----------|------|------|-----------------|
|         | Neck Vel | Air Flow | Ps   | Pt    | Throw       | Sound | Neck Vel    | Air Flow | Ps   | Pt   | Throw           |
|         | fpm      | cfm      | inWg | inWg  | ft          | NC    | m/s         | L/s      | Pa   | Pa   | m               |
| 8" Dia. | 400      | 140      | .012 | 0.022 | 2 - 3 - 6   | -     | 2.03        | 66       | 3.0  | 5.5  | 0.6 - 0.9 - 1.8 |
|         | 500      | 175      | .019 | 0.035 | 3 - 4 - 8   | -     | 2.54        | 82       | 4.7  | 8.7  | 0.9 - 1.2 - 2.4 |
|         | 600      | 209      | .028 | 0.050 | 3 - 5 - 9   | 12    | 3.05        | 99       | 7.0  | 12.5 | 0.9 - 1.5 - 2.7 |
|         | 700      | 244      | .038 | 0.069 | 4 - 5 - 11  | 17    | 3.56        | 115      | 9.5  | 17.2 | 1.2 - 1.5 - 3.4 |
|         | 800      | 279      | .050 | 0.090 | 4 - 6 - 12  | 22    | 4.06        | 132      | 12.5 | 22.4 | 1.2 - 1.8 - 3.7 |
|         | 1000     | 349      | .078 | 0.140 | 5 - 8 - 13  | 29    | 5.08        | 165      | 19.4 | 34.9 | 1.5 - 2.4 - 4.0 |
|         | 1200     | 419      | .112 | 0.202 | 6 - 9 - 14  | 36    | 6.10        | 198      | 27.9 | 50.3 | 1.8 - 2.7 - 4.3 |
|         | 1400     | 489      | .153 | 0.275 | 7 - 11 - 16 | 41    | 7.11        | 231      | 38.1 | 68.5 | 2.1 - 3.4 - 4.9 |
|         | 1600     | 559      | .199 | 0.359 | 8 - 12 - 17 | 46    | 8.13        | 264      | 49.6 | 89.4 | 2.4 - 3.7 - 5.2 |

### Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Throw values are given for isothermal conditions.
3. Units: Neck Velocity = fpm; Static Pressure = in. wc; Total Pressure = in. wc.
4. Throw = feet. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
5. NC is based on octave bands 2-7 sound power levels with a room absorption of 10dB (Re: 10<sup>-12</sup> watts).
6. Dash (-) in space denotes an NC value of less than 10.

# ENGINEERING DATA

## S2300(A), A2300(A)

### Fixed Pattern - Horizontal Throw 20"x20"

|          | IP Data  |          |      |       |            |       | Metric Data |          |      |      |                 |
|----------|----------|----------|------|-------|------------|-------|-------------|----------|------|------|-----------------|
|          | Neck Vel | Air Flow | Ps   | Pt    | Throw      | Sound | Neck Vel    | Air Flow | Ps   | Pt   | Throw           |
|          | fpm      | cfm      | inWg | inWg  | ft         | NC    | m/s         | L/s      | Pa   | Pa   | m               |
| 6" Dia.  | 400      | 79       | .006 | 0.016 | 1 - 1 - 4  | -     | 2.03        | 37       | 1.5  | 4.0  | 0.3 - 0.3 - 1.2 |
|          | 500      | 98       | .009 | 0.025 | 1 - 2 - 4  | -     | 2.54        | 46       | 2.2  | 6.2  | 0.3 - 0.6 - 1.2 |
|          | 600      | 118      | .013 | 0.035 | 2 - 3 - 5  | -     | 3.05        | 56       | 3.2  | 8.7  | 0.6 - 0.9 - 1.5 |
|          | 700      | 137      | .017 | 0.048 | 2 - 3 - 6  | 14    | 3.56        | 65       | 4.2  | 12.0 | 0.6 - 0.9 - 1.8 |
|          | 800      | 157      | .023 | 0.063 | 2 - 4 - 7  | 18    | 4.06        | 74       | 5.7  | 15.7 | 0.6 - 1.2 - 2.1 |
|          | 1000     | 196      | .037 | 0.099 | 3 - 4 - 9  | 24    | 5.08        | 93       | 9.2  | 24.7 | 0.9 - 1.2 - 2.7 |
|          | 1200     | 236      | .052 | 0.142 | 4 - 5 - 10 | 30    | 6.10        | 111      | 12.9 | 35.4 | 1.2 - 1.5 - 3.0 |
|          | 1400     | 275      | .071 | 0.193 | 4 - 6 - 12 | 34    | 7.11        | 130      | 17.7 | 48.1 | 1.2 - 1.8 - 3.7 |
| 8" Dia.  | 400      | 140      | .007 | 0.017 | 1 - 1 - 4  | -     | 2.03        | 66       | 1.7  | 4.2  | 0.3 - 0.3 - 1.2 |
|          | 500      | 175      | .011 | 0.027 | 1 - 2 - 4  | -     | 2.54        | 82       | 2.7  | 6.7  | 0.3 - 0.6 - 1.2 |
|          | 600      | 209      | .016 | 0.038 | 2 - 3 - 5  | -     | 3.05        | 99       | 4.0  | 9.5  | 0.6 - 0.9 - 1.5 |
|          | 700      | 244      | .026 | 0.057 | 2 - 3 - 6  | 13    | 3.56        | 115      | 6.5  | 14.2 | 0.6 - 0.9 - 1.8 |
|          | 800      | 279      | .027 | 0.067 | 2 - 4 - 7  | 19    | 4.06        | 132      | 6.7  | 16.7 | 0.6 - 1.2 - 2.1 |
|          | 1000     | 349      | .043 | 0.105 | 3 - 4 - 9  | 23    | 5.08        | 165      | 10.7 | 26.1 | 0.9 - 1.2 - 2.7 |
|          | 1200     | 419      | .062 | 0.152 | 4 - 5 - 10 | 29    | 6.10        | 198      | 15.4 | 37.8 | 1.2 - 1.5 - 3.0 |
|          | 1400     | 489      | .085 | 0.207 | 4 - 6 - 12 | 34    | 7.11        | 231      | 21.2 | 51.5 | 1.2 - 1.8 - 3.7 |
| 10" Dia. | 400      | 218      | .010 | 0.020 | 1 - 1 - 4  | -     | 2.03        | 103      | 2.5  | 5.0  | 0.3 - 0.3 - 1.2 |
|          | 500      | 273      | .016 | 0.032 | 1 - 2 - 4  | -     | 2.54        | 129      | 4.0  | 8.0  | 0.3 - 0.6 - 1.2 |
|          | 600      | 327      | .023 | 0.045 | 2 - 3 - 5  | 17    | 3.05        | 154      | 5.7  | 11.2 | 0.6 - 0.9 - 1.5 |
|          | 700      | 382      | .031 | 0.062 | 2 - 3 - 6  | 20    | 3.56        | 180      | 7.7  | 15.4 | 0.6 - 0.9 - 1.8 |
|          | 800      | 436      | .041 | 0.081 | 2 - 4 - 7  | 24    | 4.06        | 206      | 10.2 | 20.2 | 0.6 - 1.2 - 2.1 |
|          | 1000     | 545      | .064 | 0.126 | 3 - 4 - 9  | 31    | 5.08        | 257      | 15.9 | 31.4 | 0.9 - 1.2 - 2.7 |
|          | 1200     | 654      | .090 | 0.180 | 4 - 5 - 10 | 36    | 6.10        | 309      | 22.4 | 44.8 | 1.2 - 1.5 - 3.0 |
|          | 1400     | 764      | .118 | 0.240 | 4 - 6 - 12 | 41    | 7.11        | 361      | 29.4 | 59.8 | 1.2 - 1.8 - 3.7 |

#### Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Throw values are given for isothermal conditions.
3. Units: Neck Velocity = fpm; Static Pressure = in. wc; Total Pressure = in. wc.
4. Throw = feet. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
5. NC is based on octave bands 2-7 sound power levels with a room absorption of 10dB (Re: 10<sup>-12</sup> watts).
6. Dash (-) in space denotes an NC value of less than 10.



# ENGINEERING DATA

## S2300(A), A2300(A)

Fixed Pattern - Horizontal Throw 24"x24"

|          | IP Data  |          |      |       |              |       | Metric Data |          |      |      |                 |
|----------|----------|----------|------|-------|--------------|-------|-------------|----------|------|------|-----------------|
|          | Neck Vel | Air Flow | Ps   | Pt    | Throw        | Sound | Neck Vel    | Air Flow | Ps   | Pt   | Throw           |
|          | fpm      | cfm      | inWg | inWg  | ft           | NC    | m/s         | L/s      | Pa   | Pa   | m               |
| 6" Dia.  | 400      | 79       | .006 | 0.016 | 1 - 2 - 4    | -     | 2.03        | 37       | 1.5  | 4.0  | 0.3 - 0.6 - 1.2 |
|          | 500      | 98       | .009 | 0.025 | 1 - 2 - 4    | -     | 2.54        | 46       | 2.2  | 6.2  | 0.3 - 0.6 - 1.2 |
|          | 600      | 118      | .013 | 0.035 | 2 - 3 - 5    | -     | 3.05        | 56       | 3.2  | 8.7  | 0.6 - 0.9 - 1.5 |
|          | 700      | 137      | .017 | 0.048 | 2 - 3 - 6    | 12    | 3.56        | 65       | 4.2  | 12.0 | 0.6 - 0.9 - 1.8 |
|          | 800      | 157      | .023 | 0.063 | 2 - 4 - 7    | 16    | 4.06        | 74       | 5.7  | 15.7 | 0.6 - 1.2 - 2.1 |
|          | 1000     | 196      | .037 | 0.099 | 3 - 4 - 9    | 22    | 5.08        | 93       | 9.2  | 24.7 | 0.9 - 1.2 - 2.7 |
|          | 1200     | 236      | .052 | 0.142 | 4 - 5 - 11   | 28    | 6.10        | 111      | 12.9 | 35.4 | 1.2 - 1.5 - 3.4 |
|          | 1400     | 275      | .071 | 0.193 | 4 - 6 - 12   | 32    | 7.11        | 130      | 17.7 | 48.1 | 1.2 - 1.8 - 3.7 |
|          | 1600     | 314      | .092 | 0.252 | 5 - 7 - 13   | 36    | 8.13        | 148      | 22.9 | 62.7 | 1.5 - 2.1 - 4.0 |
| 8" Dia.  | 400      | 140      | .006 | 0.016 | 2 - 3 - 5    | -     | 2.03        | 66       | 1.5  | 4.0  | 0.6 - 0.9 - 1.5 |
|          | 500      | 175      | .009 | 0.025 | 2 - 3 - 7    | -     | 2.54        | 82       | 2.2  | 6.2  | 0.6 - 0.9 - 2.1 |
|          | 600      | 209      | .014 | 0.036 | 3 - 4 - 8    | 11    | 3.05        | 99       | 3.5  | 9.0  | 0.9 - 1.2 - 2.4 |
|          | 700      | 244      | .018 | 0.049 | 3 - 5 - 9    | 15    | 3.56        | 115      | 4.5  | 12.2 | 0.9 - 1.5 - 2.7 |
|          | 800      | 279      | .024 | 0.064 | 4 - 5 - 11   | 19    | 4.06        | 132      | 6.0  | 15.9 | 1.2 - 1.5 - 3.4 |
|          | 1000     | 349      | .039 | 0.101 | 4 - 7 - 13   | 26    | 5.08        | 165      | 9.7  | 25.1 | 1.2 - 2.1 - 4.0 |
|          | 1200     | 419      | .055 | 0.145 | 5 - 8 - 14   | 31    | 6.10        | 198      | 13.7 | 36.1 | 1.5 - 2.4 - 4.3 |
|          | 1400     | 489      | .075 | 0.197 | 6 - 9 - 16   | 36    | 7.11        | 231      | 18.7 | 49.1 | 1.8 - 2.7 - 4.9 |
|          | 1600     | 559      | .097 | 0.257 | 7 - 11 - 17  | 40    | 8.13        | 264      | 24.2 | 64.0 | 2.1 - 3.4 - 5.2 |
| 10" Dia. | 400      | 218      | .007 | 0.017 | 2 - 4 - 7    | -     | 2.03        | 103      | 1.7  | 4.2  | 0.6 - 1.2 - 2.1 |
|          | 500      | 273      | .010 | 0.026 | 3 - 5 - 9    | -     | 2.54        | 129      | 2.5  | 6.5  | 0.9 - 1.5 - 2.7 |
|          | 600      | 327      | .015 | 0.037 | 4 - 5 - 11   | 14    | 3.05        | 154      | 3.7  | 9.2  | 1.2 - 1.5 - 3.4 |
|          | 700      | 382      | .020 | 0.051 | 4 - 6 - 13   | 18    | 3.56        | 180      | 5.0  | 12.7 | 1.2 - 1.8 - 4.0 |
|          | 800      | 436      | .026 | 0.066 | 5 - 7 - 14   | 22    | 4.06        | 206      | 6.5  | 16.4 | 1.5 - 2.1 - 4.3 |
|          | 1000     | 545      | .041 | 0.103 | 6 - 9 - 17   | 29    | 5.08        | 257      | 10.2 | 25.6 | 1.8 - 2.7 - 5.2 |
|          | 1200     | 654      | .059 | 0.149 | 7 - 11 - 18  | 34    | 6.10        | 309      | 14.7 | 37.1 | 2.1 - 3.4 - 5.5 |
|          | 1400     | 764      | .080 | 0.202 | 8 - 13 - 20  | 39    | 7.11        | 361      | 19.9 | 50.3 | 2.4 - 4.0 - 6.1 |
|          | 1600     | 873      | .104 | 0.264 | 10 - 14 - 21 | 43    | 8.13        | 412      | 25.9 | 65.7 | 3.0 - 4.3 - 6.4 |
| 12" Dia. | 400      | 314      | .007 | 0.017 | 3 - 5 - 9    | -     | 2.03        | 148      | 1.7  | 4.2  | 0.9 - 1.5 - 2.7 |
|          | 500      | 393      | .011 | 0.027 | 4 - 6 - 11   | 11    | 2.54        | 185      | 2.7  | 6.7  | 1.2 - 1.8 - 3.4 |
|          | 600      | 471      | .016 | 0.038 | 5 - 7 - 14   | 16    | 3.05        | 222      | 4.0  | 9.5  | 1.5 - 2.1 - 4.3 |
|          | 700      | 550      | .021 | 0.052 | 5 - 8 - 16   | 21    | 3.56        | 260      | 5.2  | 12.9 | 1.5 - 2.4 - 4.9 |
|          | 800      | 628      | .028 | 0.068 | 6 - 9 - 18   | 24    | 4.06        | 296      | 7.0  | 16.9 | 1.8 - 2.7 - 5.5 |
|          | 1000     | 785      | .044 | 0.106 | 8 - 11 - 20  | 31    | 5.08        | 370      | 11.0 | 26.4 | 2.4 - 3.4 - 6.1 |
|          | 1200     | 942      | .063 | 0.153 | 9 - 14 - 22  | 36    | 6.10        | 445      | 15.7 | 38.1 | 2.7 - 4.3 - 6.7 |
|          | 1400     | 1100     | .086 | 0.208 | 11 - 16 - 23 | 41    | 7.11        | 519      | 21.4 | 51.8 | 3.4 - 4.9 - 7.0 |
|          | 1600     | 1257     | .112 | 0.272 | 12 - 18 - 25 | 45    | 8.13        | 593      | 27.9 | 67.7 | 3.7 - 5.5 - 7.6 |

# ENGINEERING DATA

## S2300(A), A2300(A)

### Fixed Pattern - Horizontal Throw 24"x24"

|          | IP Data  |          |      |       |              |       | Metric Data |          |      |      |                 |
|----------|----------|----------|------|-------|--------------|-------|-------------|----------|------|------|-----------------|
|          | Neck Vel | Air Flow | Ps   | Pt    | Throw        | Sound | Neck Vel    | Air Flow | Ps   | Pt   | Throw           |
|          | fpm      | cfm      | inWg | inWg  | ft           | NC    | m/s         | L/s      | Pa   | Pa   | m               |
| 14" Dia. | 400      | 428      | .008 | 0.018 | 4 - 5 - 11   | -     | 2.03        | 202      | 2.0  | 4.5  | 1.2 - 1.5 - 3.4 |
|          | 500      | 535      | .012 | 0.028 | 5 - 7 - 14   | 13    | 2.54        | 252      | 3.0  | 7.0  | 1.5 - 2.1 - 4.3 |
|          | 600      | 641      | .018 | 0.040 | 5 - 8 - 16   | 18    | 3.05        | 303      | 4.5  | 10.0 | 1.5 - 2.4 - 4.9 |
|          | 700      | 748      | .023 | 0.054 | 6 - 10 - 19  | 22    | 3.56        | 353      | 5.7  | 13.4 | 1.8 - 3.0 - 5.8 |
|          | 800      | 855      | .047 | 0.087 | 7 - 11 - 21  | 26    | 4.06        | 404      | 11.7 | 21.7 | 2.1 - 3.4 - 6.4 |
|          | 1000     | 1069     | .048 | 0.110 | 9 - 14 - 23  | 33    | 5.08        | 505      | 12.0 | 27.4 | 2.7 - 4.3 - 7.0 |
|          | 1200     | 1283     | .069 | 0.159 | 11 - 16 - 25 | 38    | 6.10        | 606      | 17.2 | 39.6 | 3.4 - 4.9 - 7.6 |
|          | 1400     | 1497     | .094 | 0.216 | 13 - 19 - 27 | 43    | 7.11        | 707      | 23.4 | 53.8 | 4.0 - 5.8 - 8.2 |
|          | 1600     | 1710     | .122 | 0.282 | 14 - 21 - 29 | 47    | 8.13        | 807      | 30.4 | 70.2 | 4.3 - 6.4 - 8.8 |
| 15" Dia. | 400      | 491      | .008 | 0.018 | 4 - 6 - 12   | -     | 2.03        | 232      | 2.0  | 4.5  | 1.2 - 1.8 - 3.7 |
|          | 500      | 614      | .012 | 0.028 | 5 - 7 - 15   | 13    | 2.54        | 290      | 3.0  | 7.0  | 1.5 - 2.1 - 4.6 |
|          | 600      | 736      | .018 | 0.040 | 6 - 9 - 18   | 19    | 3.05        | 347      | 4.5  | 10.0 | 1.8 - 2.7 - 5.5 |
|          | 700      | 859      | .024 | 0.055 | 7 - 10 - 21  | 23    | 3.56        | 405      | 6.0  | 13.7 | 2.1 - 3.0 - 6.4 |
|          | 800      | 982      | .032 | 0.072 | 8 - 12 - 22  | 27    | 4.06        | 463      | 8.0  | 17.9 | 2.4 - 3.7 - 6.7 |
|          | 1000     | 1227     | .050 | 0.112 | 10 - 15 - 25 | 34    | 5.08        | 579      | 12.5 | 27.9 | 3.0 - 4.6 - 7.6 |
|          | 1200     | 1473     | .072 | 0.162 | 12 - 18 - 27 | 39    | 6.10        | 695      | 17.9 | 40.3 | 3.7 - 5.5 - 8.2 |
|          | 1400     | 1718     | .098 | 0.220 | 14 - 21 - 29 | 44    | 7.11        | 811      | 24.4 | 54.8 | 4.3 - 6.4 - 8.8 |
|          | 1600     | 1963     | .127 | 0.287 | 16 - 22 - 31 | 48    | 8.13        | 926      | 31.6 | 71.5 | 4.9 - 6.7 - 9.4 |

#### Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Throw values are given for isothermal conditions.
3. Units: Neck Velocity = fpm; Static Pressure = in. wc; Total Pressure = in. wc.
4. Throw = feet. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
5. NC is based on octave bands 2-7 sound power levels with a room absorption of 10dB (Re: 10<sup>-12</sup> watts).
6. Dash (-) in space denotes an NC value of less than 10.