

## Performance Data • Insertion Loss Octave Band (Hz)

Model: RBB-HP • Rectangular Broad Band - High Pressure Insertion Loss

| Length | Face Velocity | Static Pressure Drop | Octave Band (Hz) |     |     |     |      |      |      |      |
|--------|---------------|----------------------|------------------|-----|-----|-----|------|------|------|------|
|        |               |                      | 63               | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 36     | -1500         | 0.50                 | 3                | 9   | 16  | 26  | 30   | 27   | 18   | 11   |
|        | -1000         | 0.23                 | 3                | 8   | 15  | 26  | 31   | 28   | 19   | 12   |
|        | 0             | 0                    | 3                | 6   | 14  | 27  | 36   | 31   | 21   | 13   |
|        | +1000         | 0.21                 | 3                | 6   | 13  | 25  | 35   | 31   | 21   | 13   |
|        | +2000         | 0.83                 | 2                | 6   | 12  | 23  | 32   | 30   | 19   | 11   |
| 60     | -1000         | 0.39                 | 9                | 14  | 22  | 40  | 44   | 45   | 31   | 15   |
|        | -500          | 0.11                 | 10               | 13  | 21  | 42  | 46   | 48   | 33   | 17   |
|        | 0             | 0                    | 8                | 12  | 21  | 42  | 49   | 50   | 35   | 20   |
|        | +1000         | 0.37                 | 8                | 11  | 19  | 40  | 48   | 50   | 36   | 20   |
|        | +1500         | 0.84                 | 6                | 10  | 18  | 39  | 47   | 49   | 35   | 19   |
| 84     | -1000         | 0.40                 | 9                | 18  | 31  | 39  | 43   | 45   | 33   | 19   |
|        | -500          | 0.21                 | 10               | 17  | 30  | 42  | 46   | 48   | 37   | 22   |
|        | 0             | 0                    | 10               | 16  | 26  | 45  | 49   | 51   | 38   | 23   |
|        | +1000         | 0.38                 | 9                | 14  | 25  | 44  | 47   | 48   | 37   | 22   |
|        | +1500         | 0.86                 | 7                | 14  | 25  | 44  | 45   | 46   | 35   | 20   |

### Self Generated Noise

| Face Velocity (fpm) | Octave Band (Hz) |     |     |     |      |      |      |      |
|---------------------|------------------|-----|-----|-----|------|------|------|------|
|                     | 63               | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| -1500               | 63               | 58  | 57  | 62  | 66   | 71   | 68   | 61   |
| -1000               | 55               | 51  | 51  | 56  | 61   | 63   | 57   | 49   |
| +1000               | 50               | 49  | 43  | 44  | 41   | 40   | 42   | 38   |
| +2000               | 66               | 62  | 58  | 56  | 56   | 60   | 55   | 62   |

### Face Area Correction Factors

| Area     | 0.5 | 1  | 2  | 4 | 8  | 16 | 32 | 64  | 128 | 256 |
|----------|-----|----|----|---|----|----|----|-----|-----|-----|
| PWL (dB) | -8  | -6 | -3 | 0 | +3 | +6 | +9 | +12 | +15 | +18 |