

PERFORMANCE DATA

SDS with 1/2 in. Slot Width (SDS50) and Pressurized Ceiling Plenum (Non-Ducted)

| Slots | Total Pressure (in. w.g.) | H V | 0.005 0.003 | 0.019 0.012 | 0.043 0.029 | 0.075 0.050 | 0.117 0.080 | 0.170 0.144 | 0.225 0.155 | 0.290 0.200 |
|-------|---------------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1 | Airflow (cfm/ft) | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| | Throw (ft.) | H | 1-1-2 | 1-2-9 | 2-5-11 | 4-9-13 | 7-10-14 | 9-10-15 | 9-11-16 | 10-12-18 |
| | Sound (NC) | V | 2 | 6 | 9 | 11 | 12 | 14 | 15 | 16 |
| 2 | Airflow (cfm/ft) | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| | Throw (ft.) | H | 1-1-4 | 2-4-12 | 5-9-15 | 8-12-17 | 10-14-19 | 12-15-21 | 13-16-23 | 14-17-24 |
| | Sound (NC) | V | 4 | 8 | 13 | 16 | 17 | 19 | 20 | 22 |
| 3 | Airflow (cfm/ft) | | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 |
| | Throw (ft.) | H | 1-2-7 | 3-7-15 | 7-11-18 | 10-15-21 | 13-16-23 | 15-18-25 | 16-19-27 | 27-21-29 |
| | Sound (NC) | V | 5 | 10 | 15 | 19 | 21 | 23 | 25 | 27 |
| 4 | Airflow (cfm/ft) | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 |
| | Throw (ft.) | H | 1-2-9 | 4-9-17 | 9-13-21 | 12-17-24 | 15-19-27 | 17-21-29 | 19-23-32 | 20-24-34 |
| | Sound (NC) | V | 7 | 12 | 18 | 22 | 25 | 27 | 29 | 31 |
| 5 | Airflow (cfm/ft) | | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 |
| | Throw (ft.) | H | 1-3-10 | 6-10-19 | 10-15-23 | 13-19-27 | 17-22-30 | 20-24-33 | 21-26-35 | 23-27-38 |
| | Sound (NC) | V | 7 | 14 | 20 | 25 | 28 | 30 | 32 | 35 |
| 6 | Airflow (cfm/ft) | | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 |
| | Throw (ft.) | H | 2-4-11 | 7-11-21 | 11-16-26 | 15-21-29 | 18-24-33 | 21-26-36 | 23-28-39 | 24-30-42 |
| | Sound (NC) | V | 7 | 16 | 22 | 27 | 30 | 33 | 35 | 38 |
| 7 | Airflow (cfm/ft) | | 35 | 70 | 105 | 140 | 175 | 210 | 245 | 280 |
| | Throw (ft.) | H | 3-6-16 | 8-11-23 | 12-18-28 | 16-23-32 | 20-26-36 | 23-28-39 | 25-30-42 | 26-32-45 |
| | Sound (NC) | V | 8 | 16 | 24 | 29 | 32 | 35 | 38 | 41 |
| 8 | Airflow (cfm/ft) | | 40 | 80 | 120 | 160 | 200 | 240 | 280 | 320 |
| | Throw (ft.) | H | 3-6-13 | 8-12-24 | 13-19-29 | 17-25-34 | 22-27-38 | 24-30-42 | 26-32-45 | 28-35-48 |
| | Sound (NC) | V | 8 | 17 | 26 | 31 | 35 | 38 | 41 | 43 |

* Non-ducted performance tables can be used to approximate performance data when contractor fabricated plenums are supplied. Plenums must be sized to achieve equal velocity along the slot length. Inlets should be sized to reduce additional contribution of sound or pressure drop.

NC Correction for Various Diffuser Lengths

| Length, ft | 1 | 2 | 4 | 8 | 9 | 10 | 15 | 20 | 25 | 30 |
|------------|-----|-----|----|----|----|----|----|----|----|----|
| Supply | -16 | -11 | -6 | -3 | -2 | 0 | +3 | +5 | +6 | +8 |
| Return | -10 | -7 | -4 | -2 | -1 | 0 | +2 | +3 | +4 | +5 |

Example:

A model SDS 75 diffuser 4 slots wide and 15 feet long is selected for 1800 cfm of supply air. 1800 " 15 = 120 cfm per foot. From the performance chart, the NC value is 34. The NC correction for 15 feet of length for supply service is +3. The corrected NC value is 34 + 3 = 37.

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. All pressures are in in. w.g.
3. Throw values are based on a 3 ft long active section. When only 1 ft is active the values are 0.6 times those shown. For a 10 ft or continuous length the values are 1.8 times those shown.
4. Horizontal (H) throw is minimum to a terminal velocity of 150 fpm, middle to 100 fpm and maximum to 50 fpm.
5. Throw data is based on supply air and room air being at isothermal conditions.
6. Horizontal throw values are based on full-open, one direction.
7. Vertical (V) throw is to a terminal velocity of 50 fpm.
8. The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and 10 ft active section. Th NC values are 11 lower with vertical projection.
9. Blanks "-" indicate an NC level below 15.

PERFORMANCE DATA

SDS with 3/4 in. Slot Width (SDS75) and Pressurized Ceiling Plenum (Non-Ducted)

| Slots | Total Pressure (in. w.g.) | H V | 0.004 0.003 | 0.015 0.011 | 0.032 0.024 | 0.058 0.044 | 0.091 0.067 | 0.125 0.095 | 0.175 0.125 | 0.230 0.170 |
|-------|---------------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1 | Airflow (cfm/ft) | | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 |
| | Throw (ft.) | H | 1-1-3 | 1-3-9 | 3-6-11 | 5-9-13 | 8-10-15 | 9-11-16 | 10-12-17 | 11-13-19 |
| | Sound (NC) | V | 2 | 6 | 10 | 12 | 14 | 15 | 16 | 17 |
| 2 | Airflow (cfm/ft) | | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | Throw (ft.) | H | 1-1-5 | 2-5-13 | 5-10-16 | 9-13-19 | 11-15-21 | 13-16-23 | 14-17-25 | 15-19-27 |
| | Sound (NC) | V | 4 | 9 | 14 | 17 | 19 | 21 | 23 | 24 |
| 3 | Airflow (cfm/ft) | | 18 | 36 | 54 | 72 | 90 | 108 | 126 | 144 |
| | Throw (ft.) | H | 1-2-8 | 4-8-16 | 7-12-20 | 11-16-23 | 14-18-26 | 16-20-28 | 18-22-30 | 19-23-32 |
| | Sound (NC) | V | 6 | 11 | 17 | 21 | 23 | 26 | 28 | 30 |
| 4 | Airflow (cfm/ft) | | 24 | 48 | 72 | 96 | 120 | 144 | 168 | 192 |
| | Throw (ft.) | H | 1-3-10 | 5-10-19 | 10-15-23 | 13-19-27 | 16-21-30 | 19-23-32 | 21-25-35 | 22-27-37 |
| | Sound (NC) | V | 6 | 13 | 19 | 24 | 27 | 30 | 32 | 34 |
| 5 | Airflow (cfm/ft) | | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 |
| | Throw (ft.) | H | 2-3-11 | 6-11-21 | 11-16-26 | 15-21-30 | 18-24-33 | 21-26-36 | 23-28-39 | 25-30-42 |
| | Sound (NC) | V | 7 | 14 | 21 | 27 | 30 | 33 | 36 | 38 |
| 6 | Airflow (cfm/ft) | | 36 | 72 | 108 | 144 | 180 | 216 | 252 | 288 |
| | Throw (ft.) | H | 2-4-12 | 8-12-23 | 12-18-28 | 16-23-32 | 20-26-36 | 23-28-40 | 25-31-43 | 26-33-45 |
| | Sound (NC) | V | 8 | 15 | 24 | 30 | 33 | 36 | 39 | 42 |
| 7 | Airflow (cfm/ft) | | 42 | 84 | 126 | 168 | 210 | 252 | 294 | 336 |
| | Throw (ft.) | H | 3-6-12 | 9-13-25 | 13-20-30 | 18-25-35 | 22-28-39 | 25-31-43 | 27-33-46 | 29-35-49 |
| | Sound (NC) | V | 8 | 16 | 24 | 32 | 36 | 39 | 42 | 45 |
| 8 | Airflow (cfm/ft) | | 48 | 96 | 144 | 192 | 240 | 288 | 336 | 384 |
| | Throw (ft.) | H | 4-7-14 | 9-14-27 | 14-21-32 | 19-27-37 | 24-30-42 | 26-33-47 | 29-35-49 | 30-37-52 |
| | Sound (NC) | V | 8 | 16 | 24 | 33 | 38 | 42 | 45 | 48 |

* Non-ducted performance tables can be used to approximate performance data when contractor fabricated plenums are supplied. Plenums must be sized to achieve equal velocity along the slot length. Inlets should be sized to reduce additional contribution of sound or pressure drop.

NC Correction for Various Diffuser Lengths

| Length, ft | 1 | 2 | 4 | 8 | 9 | 10 | 15 | 20 | 25 | 30 |
|------------|-----|-----|----|----|----|----|----|----|----|----|
| Supply | -16 | -11 | -6 | -3 | -2 | 0 | +3 | +5 | +6 | +8 |
| Return | -10 | -7 | -4 | -2 | -1 | 0 | +2 | +3 | +4 | +5 |

Example:

A model SDS 75 diffuser 4 slots wide and 15 feet long is selected for 1800 cfm of supply air. 1800 ÷ 15 = 120 cfm per foot. From the performance chart, the NC value is 34. The NC correction for 15 feet of length for supply service is +3. The corrected NC value is 34 + 3 = 37.

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. All pressures are in in. w.g.
3. Throw values are based on a 3 ft long active section. When only 1 ft is active the values are 0.6 times those shown. For a 10 ft or continuous length the values are 1.8 times those shown.
4. Horizontal (H) throw is minimum to a terminal velocity of 150 fpm, middle to 100 fpm and maximum to 50 fpm.
5. Throw data is based on supply air and room air being at isothermal conditions.
6. Horizontal throw values are based on full-open, one direction.
7. Vertical (V) throw is to a terminal velocity of 50 fpm.
8. The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and 10 ft active section. The NC values are 11 lower with vertical projection.
9. Blanks "-" indicate an NC level below 15.

PERFORMANCE DATA

SDS with 1 in. Slot Width (SDS100) and Pressurized Ceiling Plenum (Non-Ducted)

| Slots | Total Pressure (in. w.g.) | H V | 0.004 | 0.016 | 0.037 | 0.064 | 0.098 | 0.140 | 0.195 | 0.250 |
|-------|---------------------------|--------|-----------|------------|------------|------------|------------|------------|------------|------------|
| | | | 0.002 | 0.009 | 0.022 | 0.038 | 0.058 | 0.084 | 0.115 | 0.150 |
| 1 | Airflow (cfm/ft) | | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 |
| | Throw (ft.) | H | 1-1-3 | 2-3-11 | 3-8-13 | 6-11-15 | 9-12-17 | 11-13-19 | 12-14-20 | 12-15-22 |
| | Sound (NC) | V | 2 | 8 | 12 | 14 | 15 | 17 | 18 | 19 |
| 2 | Airflow (cfm/ft) | | 16 | 32 | 48 | 64 | 80 | 96 | 112 | 128 |
| | Throw (ft.) | H | 1-2-6 | 3-6-15 | 6-12-19 | 11-15-22 | 14-17-24 | 15-19-27 | 16-25-28 | 18-22-31 |
| | Sound (NC) | V | 5 | 11 | 16 | 19 | 22 | 24 | 26 | 28 |
| 3 | Airflow (cfm/ft) | | 24 | 48 | 72 | 96 | 120 | 144 | 168 | 192 |
| | Throw (ft.) | H | 1-3-10 | 4-10-19 | 10-16-23 | 13-19-27 | 16-21-30 | 19-23-32 | 20-25-35 | 22-27-37 |
| | Sound (NC) | V | 7 | 13 | 20 | 24 | 27 | 29 | 32 | 34 |
| 4 | Airflow (cfm/ft) | | 32 | 64 | 86 | 128 | 160 | 192 | 224 | 256 |
| | Throw (ft.) | H | 2-3-11 | 6-11-22 | 12-17-27 | 15-22-31 | 20-24-34 | 22-27-37 | 24-29-40 | 25-31-43 |
| | Sound (NC) | V | 8 | 15 | 23 | 28 | 31 | 34 | 36 | 39 |
| 5 | Airflow (cfm/ft) | | 40 | 80 | 120 | 160 | 200 | 240 | 280 | 320 |
| | Throw (ft.) | H | 2-4-13 | 8-13-24 | 13-20-30 | 18-24-34 | 22-27-38 | 24-30-42 | 26-32-45 | 28-34-48 |
| | Sound (NC) | V | 9 | 17 | 25 | 31 | 34 | 38 | 41 | 43 |
| 6 | Airflow (cfm/ft) | | 48 | 96 | 144 | 192 | 240 | 288 | 336 | 384 |
| | Throw (ft.) | H | 3-5-14 | 9-14-27 | 15-21-32 | 19-27-37 | 24-30-42 | 27-32-45 | 29-35-49 | 30-37-52 |
| | Sound (NC) | V | 9 | 19 | 28 | 34 | 38 | 41 | 45 | 48 |
| 7 | Airflow (cfm/ft) | | 56 | 112 | 168 | 224 | 280 | 336 | 392 | 448 |
| | Throw (ft.) | H | 3-7-15 | 10-15-28 | 15-23-35 | 21-29-40 | 26-32-45 | 29-35-49 | 31-38-53 | 33-40-56 |
| | Sound (NC) | V | 10 | 20 | 30 | 36 | 41 | 45 | 48 | 52 |
| 8 | Airflow (cfm/ft) | | 64 | 128 | 192 | 256 | 320 | 384 | 448 | 512 |
| | Throw (ft.) | H | 4-8-16 | 11-16-31 | 16-25-37 | 22-31-43 | 28-34-48 | 30-37-52 | 33-40-56 | 35-43-60 |
| | Sound (NC) | V | 11 | 22 | 32 | 39 | 43 | 48 | 52 | 55 |

* Non-ducted performance tables can be used to approximate performance data when contractor fabricated plenums are supplied. Plenums must be sized to achieve equal velocity along the slot length. Inlets should be sized to reduce additional contribution of sound or pressure drop.

NC Correction for Various Diffuser Lengths

| Length, ft | 1 | 2 | 4 | 8 | 9 | 10 | 15 | 20 | 25 | 30 |
|------------|-----|-----|----|----|----|----|----|----|----|----|
| Supply | -16 | -11 | -6 | -3 | -2 | 0 | +3 | +5 | +6 | +8 |
| Return | -10 | -7 | -4 | -2 | -1 | 0 | +2 | +3 | +4 | +5 |

Example:

A model SDS 75 diffuser 4 slots wide and 15 feet long is selected for 1800 cfm of supply air. 1800 ÷ 15 = 120 cfm per foot. From the performance chart, the NC value is 34. The NC correction for 15 feet of length for supply service is +3. The corrected NC value is 34 + 3 = 37.

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. All pressures are in in. w.g.
3. Throw values are based on a 3 ft long active section. When only 1 ft is active the values are 0.6 times those shown. For a 10 ft or continuous length the values are 1.8 times those shown.
4. Horizontal (H) throw is minimum to a terminal velocity of 150 fpm, middle to 100 fpm and maximum to 50 fpm.
5. Throw data is based on supply air and room air being at isothermal conditions.
6. Horizontal throw values are based on full-open, one direction.
7. Vertical (V) throw is to a terminal velocity of 50 fpm.
8. The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and 10 ft active section. The NC values are 11 lower with vertical projection.
9. Blanks "-" indicate an NC level below 15.

PERFORMANCE DATA

SDS with 1 ½ in. Slot Width (SDS150) and Pressurized Ceiling Plenum (Non-Ducted)

| Slots | Total Pressure (in. w.g.) | H V | 0.016 0.007 | 0.037 0.017 | 0.058 0.028 | 0.085 0.043 | 0.119 0.062 | 0.161 0.086 | 0.216 0.119 | 0.271 0.154 |
|-------|---------------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1 | Airflow (cfm/ft) | | 13 | 21 | 28 | 34 | 41 | 49 | 58 | 66 |
| | Throw (ft.) | H | 1-3-8 | 3-7-12 | 6-9-13 | 7-10-15 | 9-11-16 | 10-12-18 | 11-13-19 | 12-14-20 |
| | Sound (NC) | V | 7 | 9 | 10 | 12 | 13 | 14 | 15 | 16 |
| 2 | Airflow (cfm/ft) | | 25 | 40 | 51 | 63 | 77 | 91 | 107 | 122 |
| | Throw (ft.) | H | 2-4-9 | 4-7-14 | 6-9-17 | 8-11-19 | 9-14-21 | 11-16-23 | 13-18-25 | 15-19-27 |
| | Sound (NC) | V | 7 | 12 | 14 | 16 | 18 | 19 | 21 | 22 |
| 3 | Airflow (cfm/ft) | | 35 | 57 | 73 | 91 | 110 | 130 | 154 | 174 |
| | Throw (ft.) | H | 2-4-10 | 4-8-15 | 7-10-20 | 8-12-22 | 10-15-24 | 12-18-26 | 14-20-29 | 16-22-30 |
| | Sound (NC) | V | 6 | 12 | 15 | 19 | 21 | 23 | 25 | 27 |
| 4 | Airflow (cfm/ft) | | 46 | 73 | 95 | 117 | 142 | 168 | 198 | 225 |
| | Throw (ft.) | H | 2-4-10 | 4-8-17 | 7-11-21 | 9-13-24 | 11-16-26 | 13-19-29 | 15-22-31 | 17-23-33 |
| | Sound (NC) | V | 4 | 11 | 15 | 18 | 22 | 26 | 29 | 31 |
| 5 | Airflow (cfm/ft) | | 56 | 90 | 115 | 143 | 173 | 205 | 242 | 275 |
| | Throw (ft.) | H | 2-4-11 | 4-9-18 | 7-12-23 | 10-14-25 | 12-17-28 | 14-20-30 | 16-23-33 | 18-25-35 |
| | Sound (NC) | V | 3 | 8 | 14 | 18 | 22 | 26 | 30 | 34 |
| 6 | Airflow (cfm/ft) | | 66 | 105 | 136 | 168 | 203 | 241 | 284 | 323 |
| | Throw (ft.) | H | 2-3-12 | 4-9-19 | 7-12-24 | 10-15-26 | 12-18-29 | 15-22-31 | 17-24-34 | 20-26-36 |
| | Sound (NC) | V | 2 | 7 | 11 | 17 | 21 | 25 | 30 | 34 |
| 7 | Airflow (cfm/ft) | | 75 | 121 | 155 | 193 | 233 | 276 | 326 | 370 |
| | Throw (ft.) | H | 1-3-13 | 4-9-20 | 6-13-24 | 10-16-27 | 13-20-29 | 16-23-32 | 18-25-35 | 21-26-37 |
| | Sound (NC) | V | 2 | 5 | 9 | 14 | 21 | 25 | 29 | 33 |
| 8 | Airflow (cfm/ft) | | 85 | 136 | 175 | 217 | 262 | 311 | 367 | 417 |
| | Throw (ft.) | H | 1-3-13 | 4-8-21 | 6-14-24 | 10-17-27 | 14-21-30 | 16-23-32 | 19-25-35 | 22-26-37 |
| | Sound (NC) | V | 1 | 4 | 8 | 12 | 18 | 24 | 29 | 33 |

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets".
- All pressures are in in. w.g.
- Throw values are based on a 3 ft long active section. When only 1 ft is active the values are 0.94 times those shown. For a 10 ft or continuous length the values are 1.33 times those shown.
- Horizontal (H) throw is minimum to a terminal velocity of 150 fpm, middle to 100 fpm and maximum to 50 fpm.
- Throw data is based on supply air and room air being at isothermal conditions.
- Horizontal throw values are based on full-open, one direction.
- Vertical (V) throw is to a terminal velocity of 50 fpm.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and 10 ft active section. The NC values are 11 lower with vertical projection.
- Blanks "-" indicate an NC level below 15.

NC Correction for Various Diffuser Lengths

| Length, ft | 1 | 2 | 4 | 8 | 9 | 10 | 15 | 20 | 25 | 30 |
|------------|-----|-----|----|----|----|----|----|----|----|----|
| Supply | -18 | -13 | -8 | -4 | -2 | 0 | +3 | +5 | +6 | +8 |
| Return | -12 | -9 | -7 | -3 | -1 | 0 | +2 | +3 | +4 | +5 |

* Non-ducted performance tables can be used to approximate performance data when contractor fabricated plenums are supplied. Plenums must be sized to achieve equal velocity along the slot length. Inlets should be sized to reduce additional contribution of sound or pressure drop.

Example:

A model SDS150 diffusers 4 slots wide and 15 feet long is selected for 1425 cfm of supply air. 1425 ÷ 15 = 95 cfm per foot. From the performance chart, the NC value is 22. The NC correction for 15 feet of length for supply service is +3. The corrected NC value is 22 + 3 = 25.

PERFORMANCE DATA

SDS Return with ½ in. Slot Width (SDR50)

| Slots | Negative Static Pressure (in. w.g.) | 0.011 | 0.025 | 0.045 | 0.072 | 0.103 | 0.180 | 0.275 | 0.415 |
|-------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | Flow Rate (cfm/ft) | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |
| | Sound (NC) | - | - | - | 20 | 25 | 33 | 39 | 44 |
| 2 | Flow Rate (cfm/ft) | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 120 |
| | Sound (NC) | - | - | 17 | 23 | 28 | 36 | 42 | 47 |
| 3 | Flow Rate (cfm/ft) | 30 | 45 | 60 | 75 | 90 | 120 | 150 | 180 |
| | Sound (NC) | - | - | 19 | 25 | 30 | 38 | 44 | 49 |
| 4 | Flow Rate (cfm/ft) | 40 | 60 | 80 | 100 | 120 | 160 | 200 | 240 |
| | Sound (NC) | - | - | 20 | 26 | 31 | 39 | 45 | 50 |
| 5 | Flow Rate (cfm/ft) | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |
| | Sound (NC) | - | - | 21 | 27 | 32 | 40 | 46 | 51 |
| 6 | Flow Rate (cfm/ft) | 60 | 90 | 120 | 150 | 180 | 240 | 300 | 360 |
| | Sound (NC) | - | - | 22 | 28 | 33 | 41 | 47 | 52 |
| 7 | Flow Rate (cfm/ft) | 70 | 105 | 140 | 175 | 210 | 280 | 350 | 420 |
| | Sound (NC) | - | - | 23 | 29 | 34 | 42 | 48 | 53 |
| 8 | Flow Rate (cfm/ft) | 80 | 120 | 160 | 200 | 240 | 320 | 400 | 480 |
| | Sound (NC) | - | - | 23 | 29 | 34 | 42 | 48 | 53 |

SDS Return with ¾ in. Slot Width (SDR75)

| Slots | Negative Static Pressure (in. w.g.) | 0.007 | 0.028 | 0.063 | 0.108 | 0.170 | 0.250 | 0.345 | 0.450 |
|-------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | Flow Rate (cfm/ft) | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| | Sound (NC) | - | - | 18 | 26 | 32 | 37 | 41 | 45 |
| 2 | Flow Rate (cfm/ft) | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 |
| | Sound (NC) | - | - | 21 | 29 | 35 | 40 | 44 | 48 |
| 3 | Flow Rate (cfm/ft) | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 |
| | Sound (NC) | - | - | 23 | 31 | 37 | 42 | 46 | 50 |
| 4 | Flow Rate (cfm/ft) | 40 | 80 | 120 | 160 | 200 | 240 | 280 | 320 |
| | Sound (NC) | - | - | 24 | 32 | 38 | 43 | 47 | 51 |
| 5 | Flow Rate (cfm/ft) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| | Sound (NC) | - | - | 25 | 33 | 39 | 44 | 48 | 52 |
| 6 | Flow Rate (cfm/ft) | 60 | 120 | 180 | 240 | 300 | 360 | 420 | 480 |
| | Sound (NC) | - | - | 26 | 34 | 40 | 45 | 49 | 53 |
| 7 | Flow Rate (cfm/ft) | 70 | 140 | 210 | 280 | 350 | 420 | 490 | 560 |
| | Sound (NC) | - | 16 | 27 | 35 | 41 | 46 | 50 | 54 |
| 8 | Flow Rate (cfm/ft) | 80 | 160 | 240 | 320 | 400 | 480 | 560 | 640 |
| | Sound (NC) | - | 16 | 27 | 35 | 41 | 46 | 50 | 54 |

SDS Return with 1 in. Slot Width (SDR100)

| Slots | Negative Static Pressure (in. w.g.) | 0.018 | 0.040 | 0.070 | 0.108 | 0.160 | 0.215 | 0.280 | 0.450 |
|-------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | Flow Rate (cfm/ft) | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 100 |
| | Sound (NC) | - | - | 19 | 25 | 30 | 34 | 38 | 44 |
| 2 | Flow Rate (cfm/ft) | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 200 |
| | Sound (NC) | - | - | 22 | 28 | 33 | 37 | 41 | 47 |
| 3 | Flow Rate (cfm/ft) | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 300 |
| | Sound (NC) | - | 16 | 24 | 30 | 35 | 39 | 43 | 49 |
| 4 | Flow Rate (cfm/ft) | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 400 |
| | Sound (NC) | - | 17 | 25 | 31 | 36 | 40 | 44 | 50 |
| 5 | Flow Rate (cfm/ft) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 |
| | Sound (NC) | - | 18 | 26 | 32 | 37 | 41 | 45 | 51 |
| 6 | Flow Rate (cfm/ft) | 120 | 180 | 240 | 300 | 360 | 420 | 480 | 600 |
| | Sound (NC) | - | 19 | 27 | 33 | 38 | 42 | 46 | 52 |
| 7 | Flow Rate (cfm/ft) | 140 | 210 | 280 | 350 | 420 | 490 | 560 | 700 |
| | Sound (NC) | - | 20 | 28 | 34 | 39 | 43 | 47 | 53 |
| 8 | Flow Rate (cfm/ft) | 160 | 240 | 320 | 400 | 480 | 560 | 640 | 800 |
| | Sound (NC) | - | 20 | 28 | 34 | 39 | 43 | 47 | 53 |

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. All pressures are in w.g.
3. Noise Criteria (NC) values are based on a room absorption of 10 dB, re 10⁻¹² watts and 10 ft active section.
4. Blanks "-" indicate an NC level below 15.

PERFORMANCE DATA

SDS with SDB Plenum – ½ in. Slot Width (SDS50)

1 Slot

| Flow Rate (cfm) | | | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 |
|-------------------------|---------------------------|---|--------|---------|---------|----------|----------|----------|----------|----------|----------|
| 36 in. (4 in. Inlet) | Throw (ft.) | H | 4-9-13 | 8-10-14 | 9-10-15 | 10-12-18 | 11-13-19 | - | - | - | - |
| | | V | 11 | 13 | 14 | 16 | 17 | - | - | - | - |
| | Total Pressure (in. w.g.) | | 0.144 | 0.254 | 0.394 | 0.571 | 0.773 | - | - | - | - |
| 48 in. (5 in. Inlet) | Throw (ft.) | H | 2-8-13 | 5-10-16 | 8-12-17 | 11-13-19 | 12-13-20 | 12-14-22 | 13-16-23 | - | - |
| | | V | 11 | 13 | 14 | 17 | 18 | 19 | 20 | - | - |
| | Total Pressure (in. w.g.) | | 0.088 | 0.161 | 0.248 | 0.358 | 0.482 | 0.628 | 0.796 | - | - |
| 60 in. (5 in. Inlet) | Throw (ft.) | H | 3-9-13 | 3-9-14 | 5-10-17 | 9-13-18 | 12-13-21 | 12-14-22 | 13-14-22 | 13-16-23 | 14-17-25 |
| | | V | 10 | 13 | 14 | 16 | 17 | 18 | 20 | 21 | 22 |
| | Total Pressure (in. w.g.) | | 0.043 | 0.079 | 0.122 | 0.176 | 0.238 | 0.310 | 0.392 | 0.486 | 0.587 |
| | Sound (NC) | | - | - | - | 25 | 29 | 33 | 37 | 40 | 43 |

2 Slot

| Flow Rate (cfm) | | | 100 | 130 | 160 | 190 | 220 | 250 | 280 | 310 | 340 |
|-------------------------|---------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (5 in. Inlet) | Throw (ft.) | H | 6-10-15 | 9-13-18 | 11-14-20 | 12-15-22 | 13-16-23 | 14-17-25 | - | - | - |
| | | V | 14 | 16 | 18 | 20 | 21 | 22 | - | - | - |
| | Total Pressure (in. w.g.) | | 0.097 | 0.163 | 0.245 | 0.348 | 0.465 | 0.601 | - | - | - |
| 48 in. (6 in. Inlet) | Throw (ft.) | H | 10-12-16 | 11-13-18 | 12-14-20 | 12-16-23 | 13-17-24 | 14-18-25 | 16-19-26 | 17-20-29 | 17-22-30 |
| | | V | 13 | 17 | 19 | 20 | 22 | 23 | 24 | 25 | 26 |
| | Total Pressure (in. w.g.) | | 0.050 | 0.084 | 0.131 | 0.184 | 0.247 | 0.315 | 0.396 | 0.487 | 0.587 |
| 60 in. (7 in. Inlet) | Throw (ft.) | H | 9-12-16 | 10-13-18 | 12-14-20 | 12-16-21 | 13-17-23 | 14-18-25 | 14-20-26 | 16-20-27 | 17-21-29 |
| | | V | 10 | 14 | 18 | 20 | 21 | 22 | 23 | 25 | 26 |
| | Total Pressure (in. w.g.) | | 0.032 | 0.053 | 0.077 | 0.112 | 0.147 | 0.193 | 0.242 | 0.294 | 0.354 |
| | Sound (NC) | | - | - | - | 24 | 28 | 32 | 36 | 39 | 41 |

3 Slot

| Flow Rate (cfm) | | | 130 | 160 | 190 | 220 | 250 | 280 | 310 | 340 | 370 |
|-------------------------|---------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (6 in. Inlet) | Throw (ft.) | H | 7-11-18 | 9-14-20 | 11-15-21 | 13-16-23 | 14-17-24 | 15-19-26 | 16-19-27 | 16-20-29 | 17-21-30 |
| | | V | 15 | 18 | 19 | 21 | 22 | 24 | 25 | 26 | 27 |
| | Total Pressure (in. w.g.) | | 0.072 | 0.112 | 0.158 | 0.211 | 0.270 | 0.339 | 0.417 | 0.502 | 0.593 |
| 48 in. (7 in. Inlet) | Throw (ft.) | H | 11-13-18 | 12-14-20 | 13-16-22 | 14-17-24 | 14-18-25 | 16-19-26 | 17-20-28 | 18-22-30 | 18-23-31 |
| | | V | 13 | 16 | 19 | 22 | 23 | 24 | 25 | 26 | 28 |
| | Total Pressure (in. w.g.) | | 0.045 | 0.066 | 0.096 | 0.126 | 0.164 | 0.206 | 0.251 | 0.302 | 0.359 |
| 60 in. (8 in. Inlet) | Throw (ft.) | H | 10-13-18 | 12-14-20 | 12-16-21 | 13-17-22 | 14-18-25 | 16-20-26 | 16-20-27 | 17-21-29 | 18-21-30 |
| | | V | 12 | 14 | 16 | 20 | 22 | 23 | 25 | 26 | 27 |
| | Total Pressure (in. w.g.) | | 0.024 | 0.035 | 0.049 | 0.068 | 0.086 | 0.108 | 0.132 | 0.159 | 0.189 |
| | Sound (NC) | | - | - | - | 20 | 23 | 26 | 29 | 32 | 34 |

4 Slot

| Flow Rate (cfm) | | | 160 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 |
|--------------------------|---------------------------|---|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (7 in. Inlet) | Throw (ft.) | H | 7-12-19 | 11-15-22 | 12-17-24 | 14-19-26 | 16-20-28 | 17-21-29 | 18-22-31 | 19-23-33 | 20-24-34 |
| | | V | 18 | 20 | 22 | 24 | 25 | 27 | 28 | 30 | 31 |
| | Total Pressure (in. w.g.) | | 0.061 | 0.096 | 0.138 | 0.190 | 0.248 | 0.311 | 0.385 | 0.465 | 0.553 |
| 48 in. (8 in. Inlet) | Throw (ft.) | H | 5-10-20 | 7-14-23 | 11-18-24 | 14-19-26 | 17-20-29 | 18-22-30 | 19-23-32 | 20-24-34 | 20-25-36 |
| | | V | 14 | 18 | 22 | 24 | 26 | 28 | 30 | 31 | 32 |
| | Total Pressure (in. w.g.) | | 0.034 | 0.052 | 0.075 | 0.104 | 0.135 | 0.172 | 0.213 | 0.257 | 0.307 |
| 60 in. (10 in. Inlet) | Throw (ft.) | H | 4-7-16 | 5-10-22 | 8-16-25 | 10-18-26 | 13-20-27 | 16-21-29 | 18-22-31 | 20-23-33 | 21-25-34 |
| | | V | 12 | 16 | 18 | 21 | 25 | 27 | 29 | 30 | 31 |
| | Total Pressure (in. w.g.) | | 0.018 | 0.029 | 0.043 | 0.061 | 0.079 | 0.097 | 0.122 | 0.148 | 0.173 |
| | Sound (NC) | | - | - | - | 21 | 25 | 28 | 32 | 35 | 37 |

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
- Throw values are based on full-open, one direction.
- Throw data is based on supply air and room air being at isothermal conditions.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
- All pressures are in in. w.g.
- Spread and throw data applies to Models SDB and SDBI only.
- Blanks "-" indicate an NC level below 20.
- Associated SDS diffuser must be specified and ordered as a separate item.

PERFORMANCE DATA

SDS with SDB Plenum – ¾ in. Slot Width (SDS75)

1 Slot

| Flow Rate (cfm) | | | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
|-------------------------|---------------------------|---|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (4 in. Inlet) | Throw (ft.) | H | 8-10-15 | 9-10-15 | 10-12-17 | 11-13-19 | 11-14-20 | - | - | - | - |
| | | V | 12 | 14 | 16 | 17 | 18 | - | - | - | - |
| | Total Pressure (in. w.g.) | | 0.164 | 0.254 | 0.369 | 0.499 | 0.654 | - | - | - | - |
| 48 in. (5 in. Inlet) | Throw (ft.) | H | 8-10-14 | 10-11-17 | 10-12-18 | 11-13-19 | 12-14-20 | 12-16-22 | 13-16-23 | 13-17-24 | - |
| | | V | 13 | 14 | 17 | 18 | 18 | 19 | 20 | 22 | - |
| | Total Pressure (in. w.g.) | | 0.090 | 0.139 | 0.201 | 0.271 | 0.353 | 0.447 | 0.554 | 0.668 | - |
| 60 in. (6 in. Inlet) | Throw (ft.) | H | 8-9-14 | 9-10-16 | 10-12-18 | 10-13-20 | 12-13-20 | 12-14-21 | 13-16-23 | 13-17-23 | 14-17-25 |
| | | V | 13 | 14 | 16 | 17 | 18 | 20 | 20 | 21 | 22 |
| | Total Pressure (in. w.g.) | | 0.058 | 0.093 | 0.133 | 0.186 | 0.244 | 0.307 | 0.377 | 0.458 | 0.539 |
| | Sound (NC) | | - | - | 24 | 29 | 32 | 36 | 40 | 43 | 45 |

2 Slot

| Flow Rate (cfm) | | | 130 | 160 | 190 | 220 | 250 | 280 | 310 | 340 | 370 |
|-------------------------|---------------------------|---|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (6 in. Inlet) | Throw (ft.) | H | 7-12-18 | 10-14-20 | 12-15-22 | 13-16-24 | 14-17-25 | 15-19-27 | 15-20-28 | - | - |
| | | V | 16 | 18 | 19 | 21 | 23 | 24 | 25 | - | - |
| | Total Pressure (in. w.g.) | | - | 0.104 | 0.162 | 0.228 | 0.305 | 0.390 | 0.490 | - | - |
| 48 in. (7 in. Inlet) | Throw (ft.) | H | 5-11-18 | 7-14-20 | 11-16-23 | 13-17-24 | 14-18-25 | 16-19-28 | 16-20-29 | 17-22-30 | 18-23-31 |
| | | V | 13 | 15 | 20 | 22 | 23 | 24 | 25 | 28 | 29 |
| | Total Pressure (in. w.g.) | | 0.059 | 0.086 | 0.126 | 0.165 | 0.216 | 0.271 | 0.330 | 0.397 | 0.472 |
| 60 in. (8 in. Inlet) | Throw (ft.) | H | 4-5-17 | 7-12-20 | 8-14-21 | 10-17-23 | 13-18-25 | 14-18-26 | 16-20-27 | 16-21-30 | 17-23-31 |
| | | V | 13 | 16 | 18 | 21 | 22 | 23 | 25 | 26 | 27 |
| | Total Pressure (in. w.g.) | | 0.045 | 0.066 | 0.091 | 0.146 | 0.161 | 0.202 | 0.247 | 0.297 | 0.353 |
| | Sound (NC) | | - | - | 24 | 28 | 32 | 36 | 39 | 42 | 44 |

3 Slot

| Flow Rate (cfm) | | | 160 | 190 | 220 | 250 | 280 | 310 | 340 | 370 | 400 |
|--------------------------|---------------------------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (7 in. Inlet) | Throw (ft.) | H | 7-12-20 | 9-14-22 | 11-16-23 | 13-17-25 | 14-18-26 | 15-19-27 | 17-21-29 | 18-22-30 | 19-23-31 |
| | | V | 17 | 19 | 21 | 22 | 23 | 25 | 27 | 28 | 29 |
| | Total Pressure (in. w.g.) | | 0.073 | 0.107 | 0.140 | 0.183 | 0.230 | 0.280 | 0.336 | 0.400 | 0.466 |
| 48 in. (8 in. Inlet) | Throw (ft.) | H | 5-11-20 | 7-17-23 | 10-18-24 | 12-18-25 | 14-19-28 | 17-20-30 | 18-22-30 | 18-23-31 | 19-24-34 |
| | | V | 14 | 18 | 20 | 24 | 25 | 26 | 28 | 29 | 30 |
| | Total Pressure (in. w.g.) | | 0.042 | 0.059 | 0.082 | 0.104 | 0.130 | 0.160 | 0.192 | 0.228 | 0.267 |
| 60 in. (10 in. Inlet) | Throw (ft.) | H | 4-8-20 | 5-12-22 | 7-16-22 | 8-18-23 | 10-20-26 | 13-20-27 | 16-21-30 | 17-21-31 | 18-22-3 |
| | | V | 13 | 16 | 18 | 20 | 22 | 26 | 27 | 29 | 29 |
| | Total Pressure (in. w.g.) | | 0.023 | 0.037 | 0.046 | 0.060 | 0.078 | 0.092 | 0.110 | 0.133 | 0.156 |
| | Sound (NC) | | - | - | - | 21 | 24 | 27 | 30 | 32 | 35 |

4 Slot

| Flow Rate (cfm) | | | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 520 |
|--------------------------|---------------------------|---|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (8 in. Inlet) | Throw (ft.) | H | 9-14-22 | 11-17-25 | 13-19-27 | 15-20-28 | 16-21-30 | 19-22-31 | 19-23-32 | 20-24-34 | 21-26-36 |
| | | V | 18 | 21 | 24 | 25 | 27 | 29 | 30 | 31 | 33 |
| | Total Pressure (in. w.g.) | | 0.062 | 0.090 | 0.124 | 0.161 | 0.205 | 0.254 | 0.307 | 0.366 | 0.428 |
| 48 in. (10 in. Inlet) | Throw (ft.) | H | 6-12-24 | 10-16-25 | 12-18-28 | 13-20-29 | 14-22-31 | 17-24-32 | 18-24-35 | 19-25-36 | 23-26-37 |
| | | V | 17 | 19 | 23 | 25 | 28 | 30 | 31 | 32 | 34 |
| | Total Pressure (in. w.g.) | | 0.033 | 0.049 | 0.070 | 0.090 | 0.111 | 0.139 | 0.168 | 0.197 | 0.234 |
| 60 in. (10 in. Inlet) | Throw (ft.) | H | 4-10-21 | 7-13-25 | 9-16-26 | 12-18-29 | 13-20-30 | 14-22-31 | 16-23-34 | 17-25-35 | 20-26-36 |
| | | V | 14 | 17 | 20 | 22 | 25 | 27 | 30 | 31 | 33 |
| | Total Pressure (in. w.g.) | | 0.021 | 0.031 | 0.044 | 0.057 | 0.070 | 0.088 | 0.107 | 0.125 | 0.148 |
| | Sound (NC) | | - | - | - | - | 22 | 25 | 28 | 31 | 33 |

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
- Throw values are based on full-open, one direction.
- Throw data is based on supply air and room air being at isothermal conditions.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
- All pressures are in in. w.g.
- Spread and throw data applies to Models SDB and SDBI only.
- Blanks "-" indicate an NC level below 20.
- Associated SDS diffuser must be specified and ordered as a separate item.

PERFORMANCE DATA

SDS with SDB Plenum – 1 in. Slot Width (SDS100)

1 Slot

| Flow Rate (cfm) | | | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 |
|-------------------------|---------------------------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (5 in. Inlet) | Throw (ft.) | H | 6-11-15 | 9-12-17 | 11-13-19 | 11-14-20 | 12-14-20 | 12-15-22 | - | - | - |
| | | V | 14 | 15 | 17 | 18 | 19 | 20 | - | - | - |
| | Total Pressure (in. w.g.) | | 0.218 | 0.314 | 0.422 | 0.550 | 0.698 | 0.864 | - | - | - |
| 48 in. (5 in. Inlet) | Throw (ft.) | H | 5-8-17 | 6-12-18 | 8-13-19 | 11-14-20 | 13-16-22 | 13-16-24 | 14-17-24 | 14-18-24 | - |
| | | V | 14 | 17 | 18 | 19 | 20 | 22 | 22 | 23 | - |
| | Total Pressure (in. w.g.) | | 0.108 | 0.155 | 0.209 | 0.273 | 0.346 | 0.428 | 0.517 | 0.615 | - |
| 60 in. (6 in. Inlet) | Throw (ft.) | H | 3-7-16 | 5-9-18 | 7-12-20 | 8-14-20 | 10-14-21 | 12-16-22 | 13-16-23 | 14-17-25 | 14-18-26 |
| | | V | 14 | 16 | 17 | 18 | 20 | 21 | 22 | 22 | 23 |
| | Total Pressure (in. w.g.) | | 0.062 | 0.090 | 0.125 | 0.164 | 0.207 | 0.254 | 0.308 | 0.363 | 0.429 |
| | Sound (NC) | | - | - | 20 | 24 | 27 | 30 | 33 | 36 | 38 |

2 Slot

| Flow Rate (cfm) | | | 160 | 190 | 220 | 250 | 280 | 310 | 340 | 370 | 400 |
|-------------------------|---------------------------|---|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (6 in. Inlet) | Throw (ft.) | H | 7-14-20 | 11-15-22 | 13-16-23 | 14-17-24 | 15-19-26 | 16-19-27 | 17-20-28 | - | - |
| | | V | 17 | 19 | 21 | 23 | 24 | 25 | 26 | - | - |
| | Total Pressure (in. w.g.) | | 0.122 | 0.171 | 0.229 | 0.293 | 0.368 | 0.452 | 0.545 | - | - |
| 48 in. (7 in. Inlet) | Throw (ft.) | H | 5-13-20 | 7-16-23 | 10-17-24 | 12-18-26 | 16-19-28 | 17-20-29 | 18-22-30 | 18-23-31 | 19-24-32 |
| | | V | 17 | 19 | 22 | 23 | 24 | 26 | 28 | 29 | 30 |
| | Total Pressure (in. w.g.) | | 0.060 | 0.087 | 0.114 | 0.150 | 0.188 | 0.228 | 0.275 | 0.326 | 0.381 |
| 60 in. (8 in. Inlet) | Throw (ft.) | H | 4-9-20 | 5-14-22 | 7-17-23 | 9-18-25 | 10-20-26 | 13-20-29 | 17-21-30 | 18-22-31 | 18-22-32 |
| | | V | 14 | 17 | 20 | 22 | 23 | 25 | 26 | 27 | 29 |
| | Total Pressure (in. w.g.) | | 0.040 | 0.055 | 0.076 | 0.098 | 0.122 | 0.149 | 0.180 | 0.214 | 0.25 |
| | Sound (NC) | | - | - | - | 21 | 24 | 27 | 30 | 32 | 35 |

3 Slot

| Flow Rate (cfm) | | | 190 | 220 | 250 | 280 | 310 | 340 | 370 | 400 | 430 |
|--------------------------|---------------------------|---|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (8 in. Inlet) | Throw (ft.) | H | 8-14-21 | 10-16-23 | 11-17-25 | 13-19-27 | 15-20-28 | 16-21-30 | 16-22-31 | 18-23-32 | 19-24-33 |
| | | V | 18 | 20 | 22 | 24 | 26 | 27 | 28 | 29 | 30 |
| | Total Pressure (in. w.g.) | | 0.076 | 0.105 | 0.134 | 0.168 | 0.206 | 0.248 | 0.294 | 0.344 | 0.399 |
| 48 in. (10 in. Inlet) | Throw (ft.) | H | 5-12-23 | 7-16-24 | 10-18-25 | 12-19-28 | 14-20-30 | 16-22-31 | 16-23-32 | 17-23-34 | 17-24-35 |
| | | V | 16 | 18 | 20 | 23 | 25 | 26 | 28 | 29 | 30 |
| | Total Pressure (in. w.g.) | | 0.037 | 0.051 | 0.066 | 0.082 | 0.101 | 0.121 | 0.144 | 0.168 | 0.194 |
| 60 in. (10 in. Inlet) | Throw (ft.) | H | 4-8-22 | 5-12-23 | 7-14-25 | 8-18-26 | 9-20-29 | 12-21-31 | 14-21-31 | 16-22-33 | 17-23-34 |
| | | V | 14 | 16 | 18 | 20 | 22 | 23 | 26 | 27 | 29 |
| | Total Pressure (in. w.g.) | | 0.027 | 0.033 | 0.043 | 0.057 | 0.067 | 0.080 | 0.097 | 0.113 | 0.130 |
| | Sound (NC) | | - | - | - | - | 20 | 23 | 25 | 28 | 30 |

4 Slot

| Flow Rate (cfm) | | | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 520 | 560 |
|--------------------------|---------------------------|---|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| 36 in. (8 in. Inlet) | Throw (ft.) | H | 9-15-25 | 12-17-27 | 13-18-28 | 14-21-30 | 15-23-32 | 17-24-33 | 20-24-34 | 21-25-36 | 22-26-37 |
| | | V | 19 | 23 | 25 | 27 | 29 | 30 | 31 | 32 | 33 |
| | Total Pressure (in. w.g.) | | 0.070 | 0.096 | 0.125 | 0.159 | 0.198 | 0.239 | 0.284 | 0.333 | 0.388 |
| 48 in. (10 in. Inlet) | Throw (ft.) | H | 6-12-25 | 8-16-26 | 11-18-29 | 14-22-30 | 18-23-31 | 19-24-34 | 20-25-35 | 22-26-36 | 23-28-37 |
| | | V | 17 | 20 | 23 | 25 | 29 | 30 | 31 | 32 | 35 |
| | Total Pressure (in. w.g.) | | 0.036 | 0.051 | 0.066 | 0.081 | 0.102 | 0.123 | 0.144 | 0.171 | 0.198 |
| 60 in. (10 in. Inlet) | Throw (ft.) | H | 5-9-23 | 7-13-26 | 8-14-29 | 9-17-29 | 12-20-31 | 14-21-33 | 16-22-35 | 20-26-36 | 21-26-36 |
| | | V | 14 | 17 | 20 | 22 | 25 | 26 | 30 | 33 | 33 |
| | Total Pressure (in. w.g.) | | 0.025 | 0.036 | 0.046 | 0.057 | 0.071 | 0.086 | 0.101 | 0.120 | 0.139 |
| | Sound (NC) | | - | - | - | - | 20 | 23 | 26 | 28 | 31 |

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
- Throw values are based on full-open, one direction.
- Throw data is based on supply air and room air being at isothermal conditions.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
- All pressures are in in. w.g.
- Spread and throw data applies to Models SDB and SDBI only.
- Blanks "-" indicate an NC level below 20.
- Associated SDS diffuser must be specified and ordered as a separate item.

PERFORMANCE DATA

SDS with SDB Plenum – 1 ½ in. Slot Width (SDS150)

1 Slot

| Flow Rate (cfm) | | | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 |
|-------------------------|---|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 36 in. (5 in. Inlet) | Throw (ft.) | H | 13-16-23 | 14-17-25 | 15-19-26 | 16-20-28 | 17-21-30 | 18-22-31 | 19-23-32 | 19-24-34 | 20-25-35 |
| | | V | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 21 | 22 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.135 26 | 0.184 30 | 0.240 34 | 0.304 37 | 0.375 40 | 0.454 43 | 0.541 45 | 0.634 47 | 0.736 49 |
| 48 in. (6 in. Inlet) | Throw (ft.) | H | 9-14-21 | 11-16-23 | 12-17-24 | 14-18-26 | 15-19-27 | 16-20-28 | 17-21-30 | 18-22-31 | 18-23-32 |
| | | V | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.071 17 | 0.096 21 | 0.125 25 | 0.159 28 | 0.196 31 | 0.237 34 | 0.282 36 | 0.331 38 | 0.384 40 |
| 60 in. (6 in. Inlet) | Throw (ft.) | H | 5-9-19 | 7-11-20 | 8-12-22 | 9-14-23 | 10-16-24 | 11-17-26 | 12-19-27 | 14-20-28 | 15-20-29 |
| | | V | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.056 - | 0.077 19 | 0.100 22 | 0.127 26 | 0.157 28 | 0.190 31 | 0.226 33 | 0.265 36 | 0.307 38 |

2 Slot

| Flow Rate (cfm) | | | 190 | 220 | 250 | 280 | 310 | 340 | 370 | 400 | 430 |
|--------------------------|---|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 36 in. (6 in. Inlet) | Throw (ft.) | H | 14-19-27 | 16-20-29 | 18-22-30 | 19-23-32 | 20-24-34 | 20-25-35 | 21-26-37 | 22-27-38 | 23-28-40 |
| | | V | 19 | 20 | 21 | 23 | 24 | 25 | 26 | 27 | 28 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.120 25 | 0.161 29 | 0.208 33 | 0.261 36 | 0.320 39 | 0.385 41 | 0.455 43 | 0.532 45 | 0.615 47 |
| 48 in. (8 in. Inlet) | Throw (ft.) | H | 10-16-22 | 12-17-24 | 14-18-26 | 15-19-27 | 16-20-29 | 17-21-30 | 18-22-31 | 19-23-32 | 19-24-34 |
| | | V | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.049 - | 0.066 17 | 0.086 20 | 0.107 23 | 0.132 26 | 0.158 28 | 0.188 31 | 0.219 33 | 0.253 35 |
| 60 in. (10 in. Inlet) | Throw (ft.) | H | 8-12-18 | 9-14-20 | 11-15-21 | 12-16-22 | 13-16-23 | 14-17-24 | 15-18-25 | 15-19-26 | 16-19-27 |
| | | V | 13 | 14 | 15 | 16 | 17 | 18 | 18 | 19 | 20 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.026 - | 0.034 - | 0.045 - | 0.056 - | 0.068 17 | 0.082 19 | 0.098 21 | 0.114 23 | 0.132 25 |

3 Slot

| Flow Rate (cfm) | | | 220 | 250 | 280 | 310 | 340 | 370 | 400 | 430 | 460 |
|--------------------------|---|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 36 in. (8 in. Inlet) | Throw (ft.) | H | 12-17-29 | 13-20-30 | 15-22-32 | 16-24-34 | 18-25-36 | 19-26-37 | 21-27-39 | 23-28-40 | 24-29-41 |
| | | V | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.059 15 | 0.076 19 | 0.096 22 | 0.117 25 | 0.141 27 | 0.167 29 | 0.196 32 | 0.226 33 | 0.259 35 |
| 48 in. (10 in. Inlet) | Throw (ft.) | H | 7-14-23 | 10-16-24 | 12-17-26 | 13-19-27 | 14-20-28 | 15-21-29 | 17-22-31 | 18-22-32 | 19-23-33 |
| | | V | 12 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 18 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.028 - | 0.037 - | 0.046 - | 0.056 - | 0.068 17 | 0.080 19 | 0.094 21 | 0.108 23 | 0.124 25 |
| 60 in. (10 in. Inlet) | Throw (ft.) | H | 5-11-17 | 6-13-18 | 8-14-19 | 9-14-20 | 11-15-21 | 13-16-22 | 13-16-23 | 14-17-24 | 14-17-24 |
| | | V | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.023 - | 0.030 - | 0.037 - | 0.045 - | 0.055 - | 0.065 17 | 0.076 19 | 0.087 21 | 0.100 23 |

4 Slot

| Flow Rate (cfm) | | | 280 | 320 | 360 | 400 | 440 | 480 | 520 | 560 | 600 |
|--------------------------|---|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 36 in. (8 in. Inlet) | Throw (ft.) | H | 13-20-30 | 15-23-32 | 17-24-34 | 19-26-36 | 21-27-38 | 23-28-40 | 24-29-41 | 25-30-43 | 26-31-44 |
| | | V | 19 | 20 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.075 19 | 0.098 23 | 0.124 26 | 0.153 29 | 0.185 31 | 0.220 34 | 0.258 36 | 0.299 38 | 0.344 40 |
| 48 in. (10 in. Inlet) | Throw (ft.) | H | 7-13-25 | 9-14-26 | 11-16-28 | 12-18-29 | 13-20-31 | 14-22-32 | 6-23-34 | 17-25-35 | 18-26-36 |
| | | V | 13 | 15 | 16 | 16 | 17 | 18 | 19 | 19 | 20 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.035 - | 0.046 - | 0.058 15 | 0.071 18 | 0.086 21 | 0.103 23 | 0.120 25 | 0.140 27 | 0.160 29 |
| 60 in. (10 in. Inlet) | Throw (ft.) | H | 3-7-14 | 4-8-16 | 5-9-18 | 6-10-20 | 8-11-23 | 8-12-25 | 9-13-26 | 10-14-27 | 10-15-28 |
| | | V | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 |
| | Total Pressure (in. w.g.) Sound (NC) | | 0.029 - | 0.038 - | 0.048 - | 0.060 16 | 0.072 19 | 0.086 21 | 0.101 23 | 0.117 25 | 0.134 27 |

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
- Throw values are based on full-open, one direction.
- Throw data is based on supply air and room air being at isothermal conditions.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
- All pressures are in in. w.g.
- Spread and throw data applies to Models SDB and SDBI only.
- Blanks "-" indicate an NC level below 15.
- Associated SDS diffuser must be specified and ordered as a separate item.

PERFORMANCE DATA

SDS with SDA Plenum – ½ in. Slot Width (SDS50)

1 Slot

| Flow Rate (cfm) | | | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 |
|----------------------|---------------------------|---|--------|---------|---------|---------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 3-5-9 | 4-7-11 | 5-8-12 | 6-9-13 | 8-10-14 | 9-11-15 | 9-11-16 | 10-12-17 | 10-12-18 |
| | | V | 2-4-7 | 3-5-8 | 4-6-9 | 5-7-10 | 5-8-11 | 6-8-11 | 7-9-12 | 7-9-13 | 8-10-14 |
| | Spread (ft.) | H | 4-7-13 | 6-10-16 | 7-12-18 | 9-13-19 | 12-15-21 | 13-16-22 | 13-16-24 | 15-18-25 | 15-18-27 |
| | | V | 3-5-9 | 4-6-10 | 5-8-12 | 6-9-13 | 6-10-14 | 8-10-14 | 9-12-16 | 9-12-17 | 10-13-18 |
| 36 in. (4 in. Inlet) | Total Pressure (in. w.g.) | | 0.144 | 0.254 | 0.394 | 0.571 | 0.773 | - | - | - | - |
| | Sound (NC) | | 23 | 32 | 39 | 45 | 49 | - | - | - | - |
| 48 in. (5 in. Inlet) | Total Pressure (in. w.g.) | | 0.088 | 0.161 | 0.254 | 0.358 | 0.482 | 0.628 | 0.796 | - | - |
| | Sound (NC) | | - | 28 | 35 | 40 | 45 | 49 | 52 | - | - |
| 60 in. (5 in. Inlet) | Total Pressure (in. w.g.) | | 0.043 | 0.079 | 0.122 | 0.176 | 0.238 | 0.310 | 0.392 | 0.486 | 0.587 |
| | Sound (NC) | | - | - | - | 25 | 29 | 33 | 37 | 40 | 43 |

2 Slot

| Flow Rate (cfm) | | | 100 | 130 | 160 | 190 | 220 | 250 | 280 | 310 | 340 |
|----------------------|---------------------------|---|--------|---------|---------|----------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 4-6-11 | 5-7-12 | 6-9-14 | 7-10-15 | 8-11-16 | 9-12-17 | 10-13-18 | 11-13-19 | 11-14-20 |
| | | V | 2-3-5 | 2-4-6 | 3-4-7 | 3-5-7 | 4-6-8 | 4-6-8 | 5-6-9 | 5-7-9 | 6-7-10 |
| | Spread (ft.) | H | 6-9-16 | 7-10-18 | 9-13-21 | 10-15-22 | 12-16-24 | 13-18-25 | 15-19-27 | 16-19-28 | 16-21-30 |
| | | V | 3-4-6 | 3-5-8 | 4-5-9 | 4-6-9 | 5-8-10 | 5-8-10 | 6-8-12 | 6-9-12 | 8-9-13 |
| 36 in. (5 in. Inlet) | Total Pressure (in. w.g.) | | 0.097 | 0.163 | 0.245 | 0.348 | 0.465 | 0.601 | - | - | - |
| | Sound (NC) | | 21 | 28 | 35 | 40 | 44 | 48 | - | - | - |
| 48 in. (6 in. Inlet) | Total Pressure (in. w.g.) | | 0.050 | 0.084 | 0.131 | 0.184 | 0.247 | 0.315 | 0.396 | 0.487 | 0.587 |
| | Sound (NC) | | - | - | 25 | 30 | 35 | 39 | 43 | 46 | 49 |
| 60 in. (7 in. Inlet) | Total Pressure (in. w.g.) | | 0.032 | 0.053 | 0.077 | 0.112 | 0.147 | 0.193 | 0.242 | 0.294 | 0.354 |
| | Sound (NC) | | - | - | - | 24 | 28 | 32 | 36 | 39 | 41 |

3 Slot

| Flow Rate (cfm) | | | 130 | 160 | 190 | 220 | 250 | 280 | 310 | 340 | 370 |
|----------------------|---------------------------|---|--------|---------|---------|---------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 4-6-11 | 5-7-12 | 5-8-14 | 6-9-15 | 7-11-16 | 8-12-17 | 9-12-18 | 10-13-18 | 10-13-19 |
| | | V | 2-2-5 | 2-3-5 | 2-3-6 | 3-4-7 | 3-4-7 | 3-5-8 | 4-5-8 | 4-6-8 | 4-6-9 |
| | Spread (ft.) | H | 6-9-16 | 7-10-18 | 7-12-21 | 9-13-22 | 10-16-24 | 12-18-25 | 13-18-27 | 15-19-27 | 15-19-28 |
| | | V | 3-3-6 | 3-4-6 | 3-4-8 | 4-5-9 | 4-5-9 | 4-6-10 | 5-6-10 | 5-8-10 | 5-8-12 |
| 36 in. (6 in. Inlet) | Total Pressure (in. w.g.) | | 0.072 | 0.112 | 0.158 | 0.211 | 0.270 | 0.339 | 0.417 | 0.502 | 0.593 |
| | Sound (NC) | | 20 | 26 | 31 | 36 | 40 | 43 | 46 | 49 | 51 |
| 48 in. (7 in. Inlet) | Total Pressure (in. w.g.) | | 0.045 | 0.066 | 0.096 | 0.126 | 0.164 | 0.206 | 0.251 | 0.302 | 0.359 |
| | Sound (NC) | | - | - | 23 | 29 | 33 | 36 | 39 | 42 | 44 |
| 60 in. (8 in. Inlet) | Total Pressure (in. w.g.) | | 0.024 | 0.035 | 0.049 | 0.068 | 0.086 | 0.108 | 0.132 | 0.159 | 0.189 |
| | Sound (NC) | | - | - | - | 20 | 23 | 26 | 29 | 32 | 34 |

4 Slot

| Flow Rate (cfm) | | | 160 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 |
|-----------------------|---------------------------|---|--------|---------|---------|----------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 4-6-12 | 5-7-13 | 6-9-15 | 7-10-16 | 8-12-17 | 9-13-18 | 10-13-19 | 11-14-20 | 12-15-21 |
| | | V | 1-2-4 | 2-3-5 | 2-3-6 | 2-4-7 | 3-4-7 | 3-5-8 | 3-5-8 | 4-6-9 | 4-6-9 |
| | Spread (ft.) | H | 6-9-18 | 7-10-19 | 9-13-22 | 10-15-24 | 12-18-25 | 13-19-27 | 15-19-28 | 16-21-30 | 18-22-31 |
| | | V | 1-3-5 | 3-4-6 | 3-4-8 | 3-5-9 | 4-5-9 | 4-6-10 | 4-6-10 | 5-8-12 | 5-8-12 |
| 36 in. (7 in. Inlet) | Total Pressure (in. w.g.) | | 0.061 | 0.096 | 0.138 | 0.190 | 0.248 | 0.311 | 0.385 | 0.465 | 0.553 |
| | Sound (NC) | | 20 | 26 | 32 | 37 | 41 | 44 | 47 | 51 | 53 |
| 48 in. (8 in. Inlet) | Total Pressure (in. w.g.) | | 0.034 | 0.052 | 0.075 | 0.104 | 0.135 | 0.172 | 0.213 | 0.257 | 0.307 |
| | Sound (NC) | | - | - | 23 | 28 | 31 | 35 | 38 | 41 | 44 |
| 60 in. (10 in. Inlet) | Total Pressure (in. w.g.) | | 0.018 | 0.029 | 0.043 | 0.061 | 79 | 0.097 | 0.122 | 0.148 | 0.173 |
| | Sound (NC) | | - | - | - | 21 | 25 | 28 | 32 | 25 | 37 |

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
- Throw values are based on full-open, one direction.
- Throw data is based on supply air and room air being at isothermal conditions.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
- All pressures are in in. w.g.
- Spread and throw data applies to Models SDA and SDAI only.
- Blanks "-" indicate an NC level below 15.
- Associated SDS diffuser must be specified and ordered as a separate item.

PERFORMANCE DATA

SDS with SDA Plenum – ¾ in. Slot Width (SDS75)

1 Slot

| Flow Rate (cfm) | | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 |
|----------------------|---------------------------|---|----|--------|--------|--------|---------|---------|----------|----------|
| Nom. Length | Throw (ft.) | H | | 3-5-9 | 4-6-10 | 4-7-11 | 5-7-11 | 6-9-13 | 7-10-14 | 8-10-15 |
| | | V | | 2-4-5 | 3-4-6 | 3-4-6 | 3-5-7 | 4-6-8 | 5-6-8 | 5-6-9 |
| | Spread (ft.) | H | | 4-7-13 | 5-9-14 | 6-9-15 | 7-10-16 | 9-13-19 | 10-15-21 | 12-15-22 |
| | | V | | 3-5-7 | 3-5-8 | 4-5-8 | 4-6-9 | 5-8-10 | 6-8-10 | 6-8-12 |
| 36 in. (4 in. Inlet) | Total Pressure (in. w.g.) | | | 0.051 | 0.116 | 0.206 | 0.321 | 0.463 | 0.630 | 0.823 |
| | Sound (NC) | | | 19 | 28 | 35 | 40 | 44 | 48 | 51 |
| 48 in. (5 in. Inlet) | Total Pressure (in. w.g.) | | | 0.025 | 0.056 | 0.100 | 0.156 | 0.225 | 0.306 | 0.400 |
| | Sound (NC) | | | - | 20 | 27 | 32 | 36 | 40 | 43 |
| 60 in. (6 in. Inlet) | Total Pressure (in. w.g.) | | | 0.014 | 0.032 | 0.057 | 0.089 | 0.128 | 0.174 | 0.228 |
| | Sound (NC) | | | - | - | 20 | 25 | 30 | 33 | 36 |

2 Slot

| Flow Rate (cfm) | | | 130 | 160 | 190 | 220 | 250 | 280 | 310 | 340 | 370 |
|----------------------|---------------------------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 5-7-12 | 6-9-13 | 7-10-14 | 8-11-15 | 9-11-16 | 10-12-17 | 10-13-18 | 11-13-19 | 11-14-20 |
| | | V | 2-4-6 | 3-4-6 | 4-5-7 | 4-5-7 | 5-6-8 | 5-6-8 | 5-6-9 | 5-6-9 | 6-7-10 |
| | Spread (ft.) | H | 7-10-18 | 9-13-19 | 10-15-21 | 12-16-22 | 13-16-24 | 15-18-25 | 15-19-27 | 16-19-28 | 16-21-30 |
| | | V | 3-5-8 | 4-5-8 | 5-6-9 | 5-6-9 | 6-8-10 | 6-8-10 | 6-8-12 | 6-8-12 | 8-9-13 |
| 36 in. (6 in. Inlet) | Total Pressure (in. w.g.) | | 0.104 | 0.162 | 0.228 | 0.305 | 0.390 | 0.490 | 0.602 | - | - |
| | Sound (NC) | | 24 | 30 | 35 | 40 | 44 | 47 | 50 | - | - |
| 48 in. (7 in. Inlet) | Total Pressure (in. w.g.) | | 0.059 | 0.086 | 0.126 | 0.165 | 0.216 | 0.221 | 0.330 | 0.397 | 0.472 |
| | Sound (NC) | | - | 21 | 26 | 30 | 34 | 38 | 41 | 43 | 46 |
| 60 in. (8 in. Inlet) | Total Pressure (in. w.g.) | | 0.045 | 0.066 | 0.091 | 0.146 | 0.161 | 0.202 | 0.247 | 0.297 | 0.353 |
| | Sound (NC) | | - | - | 24 | 28 | 32 | 36 | 39 | 42 | 44 |

3 Slot

| Flow Rate (cfm) | | | 160 | 190 | 220 | 250 | 280 | 310 | 340 | 370 | 400 |
|-----------------------|---------------------------|---|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 5-7-12 | 6-8-13 | 6-10-14 | 7-11-15 | 8-11-16 | 9-12-17 | 10-12-18 | 10-13-19 | 11-13-19 |
| | | V | 2-3-5 | 3-4-6 | 3-5-6 | 3-5-7 | 4-5-7 | 4-5-8 | 5-6-8 | 5-6-8 | 5-6-9 |
| | Spread (ft.) | H | 7-10-18 | 9-12-19 | 9-15-21 | 10-16-22 | 12-16-24 | 13-18-25 | 15-18-27 | 15-19-28 | 16-19-28 |
| | | V | 3-4-6 | 4-5-8 | 4-6-8 | 4-6-9 | 5-6-9 | 5-6-10 | 6-8-10 | 6-8-10 | 6-8-12 |
| 36 in. (7 in. Inlet) | Total Pressure (in. w.g.) | | 0.073 | 0.107 | 0.140 | 0.183 | 0.270 | 0.280 | 0.336 | 0.400 | 0.466 |
| | Sound (NC) | | 21 | 26 | 31 | 35 | 38 | 41 | 44 | 43 | 49 |
| 48 in. (8 in. Inlet) | Total Pressure (in. w.g.) | | 0.042 | 0.059 | 0.082 | 0.104 | 0.130 | 0.160 | 0.192 | 0.228 | 0.267 |
| | Sound (NC) | | - | - | 23 | 26 | 30 | 33 | 35 | 37 | 40 |
| 60 in. (10 in. Inlet) | Total Pressure (in. w.g.) | | 0.023 | 0.037 | 0.046 | 0.060 | 0.078 | 0.092 | 0.110 | 0.133 | 0.156 |
| | Sound (NC) | | - | - | - | 21 | 24 | 27 | 30 | 32 | 35 |

4 Slot

| Flow Rate (cfm) | | | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 520 |
|-----------------------|---------------------------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 5-8-13 | 6-9-14 | 7-11-15 | 8-12-16 | 9-12-17 | 10-13-18 | 11-14-19 | 11-14-20 | 12-15-21 |
| | | V | 2-3-6 | 3-4-6 | 3-5-7 | 4-5-7 | 4-5-7 | 4-5-8 | 5-6-8 | 5-6-8 | 5-6-9 |
| | Spread (ft.) | H | 7-12-19 | 9-13-21 | 10-16-22 | 12-18-24 | 13-18-25 | 15-19-27 | 15-19-27 | 16-21-28 | 16-21-30 |
| | | V | 3-4-8 | 4-5-8 | 4-6-9 | 5-6-9 | 5-6-9 | 5-6-10 | 6-8-10 | 6-8-10 | 6-8-12 |
| 36 in. (8 in. Inlet) | Total Pressure (in. w.g.) | | 0.062 | 0.090 | 0.124 | 0.161 | 0.205 | 0.254 | 0.307 | 0.366 | 0.428 |
| | Sound (NC) | | 22 | 27 | 32 | 36 | 39 | 42 | 45 | 48 | 51 |
| 48 in. (10 in. Inlet) | Total Pressure (in. w.g.) | | 0.033 | 0.049 | 0.070 | 0.090 | 0.111 | 0.139 | 0.168 | 0.197 | 0.234 |
| | Sound (NC) | | - | 20 | 25 | 28 | 32 | 35 | 38 | 41 | 44 |
| 60 in. (10 in. Inlet) | Total Pressure (in. w.g.) | | 0.021 | 0.031 | 0.044 | 0.057 | 0.070 | 0.088 | 0.107 | 0.125 | 0.148 |
| | Sound (NC) | | - | - | - | - | 22 | 25 | 28 | 31 | 33 |

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
3. Throw values are based on full-open, one direction.
4. Throw data is based on supply air and room air being at isothermal conditions.
5. The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
6. All pressures are in in. w.g.
7. Spread and throw data applies to Models SDA and SDAI only.
8. Blanks "-" indicate a NC level below 15.
9. Associated SDS diffuser must be specified and ordered as a separate item.

PERFORMANCE DATA

SDS with SDA Plenum – 1 in. Slot Width (SDS100)

1 Slot

| Flow Rate (cfm) | | | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 |
|----------------------|---------------------------|---|--------|---------|---------|----------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 4-6-11 | 5-8-12 | 6-10-13 | 7-10-14 | 8-11-15 | 9-11-16 | 10-12-17 | 10-12-17 | 10-13-18 |
| | | V | 2-3-6 | 3-4-7 | 3-5-7 | 3-5-8 | 4-6-8 | 4-6-9 | 5-6-9 | 5-7-9 | 6-7-10 |
| | Spread (ft.) | H | 6-9-16 | 7-12-18 | 9-15-19 | 10-15-21 | 12-16-22 | 13-16-24 | 15-18-25 | 15-18-25 | 15-19-27 |
| | | V | 3-4-8 | 4-5-9 | 4-6-9 | 4-6-10 | 5-8-10 | 5-8-12 | 6-8-12 | 6-9-12 | 8-9-13 |
| 36 in. (4 in. Inlet) | Total Pressure (in. w.g.) | | 0.218 | 0.314 | 0.422 | 0.550 | 0.698 | 0.864 | - | - | - |
| | Sound (NC) | | 32 | 37 | 42 | 46 | 49 | 52 | - | - | - |
| 48 in. (5 in. Inlet) | Total Pressure (in. w.g.) | | 0.108 | 0.155 | 0.209 | 0.273 | 0.346 | 0.428 | 0.517 | 0.615 | - |
| | Sound (NC) | | - | 22 | 26 | 30 | 34 | 37 | 40 | 43 | - |
| 60 in. (6 in. Inlet) | Total Pressure (in. w.g.) | | 0.062 | 0.090 | 0.125 | 0.164 | 0.207 | 0.254 | 0.308 | 0.363 | 0.429 |
| | Sound (NC) | | - | - | 20 | 24 | 27 | 30 | 33 | 36 | 38 |

2 Slot

| Flow Rate (cfm) | | | 160 | 190 | 220 | 250 | 280 | 310 | 340 | 370 | 400 |
|----------------------|---------------------------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 5-8-12 | 6-9-14 | 7-10-15 | 8-11-16 | 9-12-17 | 10-12-18 | 11-13-18 | 11-13-19 | 11-14-20 |
| | | V | 2-3-6 | 3-4-7 | 3-5-7 | 3-5-7 | 4-6-8 | 4-6-8 | 5-6-8 | 5-6-9 | 5-6-9 |
| | Spread (ft.) | H | 7-12-18 | 9-13-21 | 10-15-22 | 12-16-24 | 13-18-25 | 15-18-27 | 16-19-27 | 16-19-28 | 16-21-30 |
| | | V | 3-4-8 | 4-5-9 | 4-6-9 | 4-6-9 | 5-8-10 | 5-8-10 | 6-8-10 | 6-8-12 | 6-8-12 |
| 36 in. (6 in. Inlet) | Total Pressure (in. w.g.) | | 0.122 | 0.171 | 0.229 | 0.293 | 0.368 | 0.452 | 0.545 | - | - |
| | Sound (NC) | | 24 | 29 | 34 | 37 | 41 | 44 | 46 | - | - |
| 48 in. (7 in. Inlet) | Total Pressure (in. w.g.) | | 0.060 | 0.087 | 0.114 | 0.150 | 0.188 | 0.228 | 0.275 | 0.326 | 0.381 |
| | Sound (NC) | | - | - | 23 | 27 | 30 | 33 | 36 | 39 | 41 |
| 60 in. (8 in. Inlet) | Total Pressure (in. w.g.) | | 0.040 | 0.055 | 0.076 | 0.98 | 0.122 | 0.149 | 0.180 | 0.214 | 0.250 |
| | Sound (NC) | | - | - | - | 21 | 24 | 27 | 30 | 32 | 35 |

3 Slot

| Flow Rate (cfm) | | | 190 | 220 | 250 | 280 | 310 | 340 | 370 | 400 | 430 |
|-----------------------|---------------------------|---|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 5-7-12 | 6-8-14 | 6-10-15 | 7-11-15 | 8-11-16 | 8-12-17 | 9-12-18 | 10-13-18 | 11-13-19 |
| | | V | 2-3-6 | 2-3-6 | 3-4-6 | 3-4-7 | 3-5-7 | 3-5-7 | 4-5-8 | 4-6-8 | 4-6-8 |
| | Spread (ft.) | H | 7-10-18 | 9-12-21 | 9-15-22 | 10-16-22 | 12-16-24 | 12-18-25 | 13-18-27 | 15-19-27 | 16-19-28 |
| | | V | 3-4-8 | 3-4-8 | 4-5-8 | 4-5-9 | 4-6-9 | 4-6-9 | 5-6-10 | 5-8-10 | 5-8-10 |
| 36 in. (8 in. Inlet) | Total Pressure (in. w.g.) | | 0.076 | 0.105 | 0.134 | 0.168 | 0.206 | 0.248 | 0.294 | 0.344 | 0.399 |
| | Sound (NC) | | 23 | 28 | 32 | 35 | 38 | 40 | 43 | 46 | 48 |
| 48 in. (10 in. Inlet) | Total Pressure (in. w.g.) | | 0.037 | 0.051 | 0.066 | 0.082 | 0.101 | 0.121 | 0.144 | 0.168 | 0.194 |
| | Sound (NC) | | - | - | 22 | 26 | 29 | 32 | 34 | 37 | 39 |
| 60 in. (10 in. Inlet) | Total Pressure (in. w.g.) | | 0.027 | 0.033 | 0.043 | 0.057 | 0.067 | 0.080 | 0.097 | 0.113 | 0.130 |
| | Sound (NC) | | - | - | - | - | 20 | 23 | 25 | 28 | 30 |

4 Slot

| Flow Rate (cfm) | | | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 520 | 560 |
|-----------------------|---------------------------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| Nom. Length | Throw (ft.) | H | 5-8-14 | 6-9-15 | 7-11-16 | 8-12-17 | 9-12-18 | 10-13-18 | 10-13-18 | 11-14-20 | 12-15-21 |
| | | V | 2-3-6 | 2-4-6 | 3-4-6 | 3-5-7 | 4-5-7 | 4-5-8 | 5-6-8 | 5-6-8 | 5-6-9 |
| | Spread (ft.) | H | 7-12-21 | 9-13-22 | 10-16-24 | 12-18-25 | 13-18-27 | 15-19-27 | 15-19-28 | 16-21-30 | 18-22-31 |
| | | V | 3-4-8 | 3-5-8 | 4-5-8 | 4-6-9 | 5-6-9 | 5-6-10 | 5-8-10 | 6-8-10 | 6-8-12 |
| 36 in. (8 in. Inlet) | Total Pressure (in. w.g.) | | 0.070 | 0.096 | 0.125 | 0.159 | 0.198 | 0.239 | 0.284 | 0.333 | 0.388 |
| | Sound (NC) | | 21 | 26 | 30 | 33 | 37 | 40 | 42 | 45 | 47 |
| 48 in. (10 in. Inlet) | Total Pressure (in. w.g.) | | 0.036 | 0.051 | 0.066 | 0.081 | 0.102 | 0.123 | 0.144 | 0.171 | 0.198 |
| | Sound (NC) | | - | - | 21 | 25 | 28 | 31 | 34 | 36 | 39 |
| 60 in. (10 in. Inlet) | Total Pressure (in. w.g.) | | 0.025 | 0.036 | 0.044 | 0.057 | 0.071 | 0.086 | 0.101 | 0.120 | 0.139 |
| | Sound (NC) | | - | - | - | - | 20 | 23 | 26 | 28 | 31 |

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
3. Throw values are based on full-open, one direction.
4. Throw data is based on supply air and room air being at isothermal conditions.
5. The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
6. All pressures are in in. w.g.
7. Spread and throw data applies to Models SDA and SDAI only.
8. Blanks "-" indicate an NC level below 15.
9. Associated SDS diffuser must be specified and ordered as a separate item.