



MODEL 6610

MODEL 6610

Slot Diffuser - 1" Slot (CFM Per Linear Foot)

| Slots | Static Pressure | Horizontal Vertical | .008 | .030 | .047 | .068 | .092 | .120 | .152 | .188 | .227 | .270 |
|-------|-----------------------|---------------------|------|------|------|------|------|------|------|------|------|------|
| | | | .003 | .012 | .020 | .028 | .037 | .040 | .061 | .076 | .092 | .109 |
| 1 | CFM/LF | | 10 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| | Horizontal Throw , Ft | | 6 | 22 | 24 | 27 | 29 | 31 | 33 | 35 | 36 | 38 |
| | Vertical Throw , Ft | | 2 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | Horizontal NC | | <15 | <15 | <15 | <15 | 19 | 22 | 24 | 26 | 28 | 30 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 16 | 18 |
| 2 | CFM/LF | | 20 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| | Horizontal Throw , Ft | | 10 | 29 | 35 | 38 | 41 | 44 | 46 | 49 | 51 | 54 |
| | Vertical Throw , Ft | | 4 | 14 | 17 | 18 | 20 | 21 | 23 | 24 | 25 | 26 |
| | Horizontal NC | | <15 | <15 | <15 | <15 | 21 | 25 | 27 | 29 | 31 | 33 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | <15 | 15 | 17 | 19 | 21 |
| 3 | CFM/LF | | 30 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
| | Horizontal Throw , Ft | | 18 | 36 | 41 | 44 | 48 | 51 | 54 | 57 | 60 | 63 |
| | Vertical Throw , Ft | | 4 | 17 | 21 | 23 | 24 | 26 | 28 | 29 | 31 | 32 |
| | Horizontal NC | | <15 | <15 | <15 | 17 | 22 | 27 | 28 | 30 | 32 | 34 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | 15 | 16 | 18 | 20 | 22 |
| 4 | CFM/LF | | 40 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| | Horizontal Throw , Ft | | 24 | 42 | 47 | 51 | 55 | 59 | 63 | 66 | 70 | 73 |
| | Vertical Throw , Ft | | 5 | 20 | 24 | 26 | 28 | 30 | 32 | 34 | 35 | 37 |
| | Horizontal NC | | <15 | <15 | 15 | 19 | 24 | 29 | 30 | 32 | 34 | 36 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | 17 | 18 | 20 | 22 | 24 |
| 5 | CFM/LF | | 50 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 |
| | Horizontal Throw , Ft | | 30 | 47 | 52 | 57 | 62 | 66 | 70 | 74 | 78 | 81 |
| | Vertical Throw , Ft | | 6 | 24 | 29 | 32 | 34 | 37 | 39 | 41 | 43 | 45 |
| | Horizontal NC | | <15 | <15 | 16 | 21 | 25 | 31 | 32 | 34 | 35 | 37 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | 19 | 20 | 22 | 23 | 25 |
| 6 | CFM/LF | | 60 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | 360 |
| | Horizontal Throw , Ft | | 29 | 51 | 57 | 63 | 68 | 73 | 77 | 81 | 85 | 89 |
| | Vertical Throw , Ft | | 6 | 24 | 29 | 32 | 34 | 37 | 39 | 41 | 43 | 45 |
| | Horizontal NC | | <15 | 15 | 17 | 22 | 27 | 33 | 34 | 35 | 36 | 38 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | 21 | 22 | 23 | 24 | 26 |
| 7 | CFM/LF | | 70 | 140 | 175 | 210 | 245 | 280 | 315 | 350 | 385 | 420 |
| | Horizontal Throw , Ft | | 32 | 55 | 62 | 68 | 73 | 78 | 83 | 88 | 92 | 96 |
| | Vertical Throw , Ft | | 7 | 26 | 31 | 34 | 37 | 40 | 42 | 45 | 47 | 49 |
| | Horizontal NC | | <15 | 16 | 18 | 24 | 28 | 34 | 36 | 37 | 38 | 39 |
| | Vertical NC | | <15 | <15 | <15 | <15 | 16 | 22 | 24 | 25 | 26 | 27 |
| 8 | CFM/LF | | 80 | 160 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 |
| | Horizontal Throw , Ft | | 34 | 59 | 66 | 73 | 78 | 84 | 89 | 94 | 98 | 103 |
| | Vertical Throw , Ft | | 7 | 28 | 34 | 37 | 40 | 43 | 45 | 48 | 50 | 52 |
| | Horizontal NC | | <15 | 16 | 20 | 26 | 30 | 35 | 37 | 38 | 39 | 41 |
| | Vertical NC | | <15 | <15 | <15 | <15 | 18 | 23 | 25 | 26 | 27 | 29 |

Performance Notes:

- On units without plenums, pressure drop reported is across the diffuser element only. The field supply pressure drop should be included when determining system fan requirements. A good approximation of the static pressure requirements can be calculated by adding the velocity pressure through the plenum inlet to the diffuser section pressure drop.
- NC is based on a 4 ft section of diffuser. The following table should be used to calculate sound levels for lengths other than 4 ft.
- To correct throws for lengths other than the 4 ft lengths used in determining catalog performance, throws should be adjusted per the following table:

| NC Correction for Length | | | | | |
|--|-----|-----|-----|-----|-----|
| Length (feet) | 2 | 4 | 6 | 8 | 10 |
| NC Correction | -2 | +0 | +2 | +3 | +5 |
| Throw Correction Multiplier for Length | | | | | |
| Length (feet) | 2 | 4 | 8 | 10 | 12 |
| Throw Correction | 0.7 | 1.0 | 1.5 | 1.7 | 1.8 |

- All pressures are in inches of water
- Isothermal throw is given for terminal velocity 50 fpm, based on 4 ft section.
- Vertical throw values are based on a 50 fpm terminal velocity
- For Vertical Supply, subtract one NC.
- For Return minus pattern controllers, deduct 12 NC.
- Throw values are based on a 1-way discharge from the slot. For 2-way discharges, throw is based upon the number and size of the slots throwing in each direction, with the total supply air flow split equally between all slots in the units.
- Data were collected in accordance to ASHRAE Standard 70-1991 " Method of testing for Rating in the Performance of Air Outlets and Inlets."



MODEL 6650

MODEL 6650

Slot Diffuser - 1/2" Slot (CFM Per Linear Foot)

| Slots | Static Pressure | Horizontal Vertical | .005 | .021 | .047 | .083 | .130 | .188 | .255 | .334 | .422 | .521 |
|-------|-----------------------|---------------------|------|------|------|------|------|------|------|------|------|------|
| | | | .004 | .015 | .033 | .058 | .091 | .132 | .179 | .234 | .295 | .365 |
| 1 | CFM/LF | | 5 | 10 | 15 | 20 | 25 | 30 | 335 | 40 | 45 | 50 |
| | Horizontal Throw , Ft | | 6 | 12 | 14 | 17 | 19 | 20 | 22 | 24 | 25 | 26 |
| | Vertical Throw , Ft | | 2 | 7 | 9 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | Horizontal NC | | <15 | <15 | <15 | 17 | 22 | 27 | 30 | 34 | 36 | 38 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | 15 | 18 | 22 | 24 | 26 |
| 2 | CFM/LF | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| | Horizontal Throw , Ft | | 8 | 17 | 20 | 24 | 26 | 29 | 31 | 33 | 35 | 37 |
| | Vertical Throw , Ft | | 3 | 9 | 13 | 15 | 17 | 18 | 20 | 21 | 23 | 24 |
| | Horizontal NC | | <15 | <15 | <15 | 20 | 25 | 30 | 33 | 37 | 39 | 41 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | 18 | 21 | 25 | 27 | 29 |
| 3 | CFM/LF | | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 |
| | Horizontal Throw , Ft | | 13 | 20 | 25 | 29 | 32 | 35 | 38 | 41 | 43 | 45 |
| | Vertical Throw , Ft | | 5 | 11 | 16 | 18 | 21 | 23 | 24 | 26 | 28 | 29 |
| | Horizontal NC | | <15 | <15 | 15 | 22 | 27 | 32 | 35 | 39 | 41 | 43 |
| | Vertical NC | | <15 | <15 | <15 | <15 | 15 | 20 | 23 | 27 | 29 | 31 |
| 4 | CFM/LF | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Horizontal Throw , Ft | | 15 | 24 | 29 | 33 | 37 | 41 | 44 | 47 | 50 | 53 |
| | Vertical Throw , Ft | | 5 | 13 | 18 | 21 | 24 | 26 | 28 | 30 | 32 | 34 |
| | Horizontal NC | | <15 | <15 | 17 | 24 | 29 | 33 | 36 | 40 | 42 | 44 |
| | Vertical NC | | <15 | <15 | <15 | <15 | 17 | 21 | 24 | 28 | 30 | 32 |
| 5 | CFM/LF | | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 |
| | Horizontal Throw , Ft | | 16 | 25 | 32 | 37 | 42 | 46 | 49 | 53 | 56 | 59 |
| | Vertical Throw , Ft | | 6 | 19 | 23 | 26 | 29 | 32 | 34 | 37 | 39 | 41 |
| | Horizontal NC | | <15 | <15 | 19 | 26 | 31 | 35 | 37 | 41 | 43 | 45 |
| | Vertical NC | | <15 | <15 | <15 | <15 | 19 | 23 | 25 | 29 | 31 | 33 |
| 6 | CFM/LF | | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Horizontal Throw , Ft | | 20 | 29 | 35 | 41 | 46 | 50 | 54 | 58 | 61 | 65 |
| | Vertical Throw , Ft | | 6 | 16 | 23 | 26 | 29 | 32 | 34 | 37 | 39 | 41 |
| | Horizontal NC | | <15 | 17 | 20 | 27 | 32 | 36 | 38 | 42 | 44 | 46 |
| | Vertical NC | | <15 | <15 | <15 | 15 | 20 | 24 | 26 | 30 | 32 | 35 |
| 7 | CFM/LF | | 35 | 70 | 105 | 140 | 175 | 210 | 245 | 280 | 315 | 350 |
| | Horizontal Throw , Ft | | 18 | 31 | 38 | 44 | 49 | 54 | 59 | 63 | 66 | 70 |
| | Vertical Throw , Ft | | 7 | 17 | 24 | 28 | 31 | 34 | 37 | 40 | 42 | 45 |
| | Horizontal NC | | <15 | 18 | 21 | 28 | 33 | 37 | 39 | 43 | 45 | 47 |
| | Vertical NC | | <15 | <15 | <15 | 16 | 21 | 25 | 31 | 33 | 35 | 37 |
| 8 | CFM/LF | | 40 | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Horizontal Throw , Ft | | 19 | 33 | 41 | 47 | 53 | 58 | 63 | 67 | 71 | 75 |
| | Vertical Throw , Ft | | 7 | 18 | 26 | 30 | 34 | 37 | 40 | 43 | 45 | 48 |
| | Horizontal NC | | <15 | 20 | 22 | 29 | 34 | 39 | 40 | 44 | 45 | 48 |
| | Vertical NC | | <15 | <15 | <15 | 17 | 22 | 27 | 28 | 32 | 34 | 36 |

Performance Notes:

- On units without plenums, pressure drop reported is across the diffuser element only. The field supply pressure drop should be included when determining system fan requirements. A good approximation of the static pressure requirements can be calculated by adding the velocity pressure through the plenum inlet to the diffuser section pressure drop.
- NC is based on a 4 ft section of diffuser. The following table should be used to calculate sound levels for lengths other than 4 ft.
- To correct throws for lengths other than the 4 ft lengths used in determining catalog performance, throws should be adjusted per the following table:

| NC Correction for Length | | | | | |
|--|-----|-----|-----|-----|-----|
| Length (feet) | 2 | 4 | 6 | 8 | 10 |
| NC Correction | -2 | +0 | +2 | +3 | +5 |
| Throw Correction Multiplier for Length | | | | | |
| Length (feet) | 2 | 4 | 8 | 10 | 12 |
| Throw Correction | 0.7 | 1.0 | 1.5 | 1.7 | 1.8 |

- All pressures are in inches of water
- Isothermal throw is given for terminal velocity 50 fpm, based on 4 ft section.
- Vertical throw values are based on a 50 fpm terminal velocity
- For Vertical Supply, subtract one NC.
- For Return minus pattern controllers, deduct 12 NC.
- Throw values are based on a 1-way discharge from the slot. For 2-way discharges, throw is based upon the number and size of the slots throwing in each direction, with the total supply air flow split equally between all slots in the units.
- Data were collected in accordance to ASHRAE Standard 70-1991 " Method of testing for Rating in the Performance of Air Outlets and Inlets."



MODEL 6675

MODEL 6675

Slot Diffuser - 3/4" Slot (CFM Per Linear Foot)

| Slots | Static Pressure | Horizontal Vertical | .011 | .024 | .042 | .066 | .095 | .129 | .168 | .213 | .263 | .318 |
|-------|-----------------------|---------------------|------|------|------|------|------|------|------|------|------|------|
| | | | .007 | .014 | .025 | .040 | .057 | .077 | .101 | .128 | .158 | .191 |
| 1 | CFM/LF | | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| | Horizontal Throw , Ft | | 6 | 14 | 22 | 24 | 27 | 29 | 31 | 33 | 35 | 36 |
| | Vertical Throw , Ft | | 2 | 6 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | Horizontal NC | | <15 | <15 | <15 | 15 | 19 | 23 | 25 | 28 | 31 | 33 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 16 | 19 | 21 |
| 2 | CFM/LF | | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| | Horizontal Throw , Ft | | 10 | 22 | 29 | 35 | 38 | 41 | 44 | 46 | 49 | 51 |
| | Vertical Throw , Ft | | 4 | 8 | 14 | 17 | 18 | 20 | 21 | 23 | 24 | 25 |
| | Horizontal NC | | <15 | <15 | <15 | 18 | 22 | 26 | 28 | 31 | 34 | 36 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | <15 | 16 | 19 | 22 | 24 |
| 3 | CFM/LF | | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 |
| | Horizontal Throw , Ft | | 13 | 27 | 36 | 41 | 44 | 48 | 51 | 54 | 57 | 60 |
| | Vertical Throw , Ft | | 4 | 10 | 17 | 21 | 23 | 24 | 26 | 28 | 29 | 31 |
| | Horizontal NC | | <15 | <15 | <15 | 20 | 24 | 28 | 30 | 33 | 35 | 37 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | 16 | 18 | 21 | 23 | 25 |
| 4 | CFM/LF | | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 |
| | Horizontal Throw , Ft | | 24 | 36 | 42 | 47 | 51 | 55 | 59 | 63 | 66 | 70 |
| | Vertical Throw , Ft | | 5 | 11 | 20 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
| | Horizontal NC | | <15 | 15 | 16 | 22 | 25 | 30 | 31 | 35 | 37 | 39 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | 18 | 19 | 23 | 25 | 27 |
| 5 | CFM/LF | | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 |
| | Horizontal Throw , Ft | | 30 | 41 | 47 | 52 | 57 | 62 | 66 | 70 | 74 | 78 |
| | Vertical Throw , Ft | | 6 | 13 | 22 | 27 | 29 | 31 | 34 | 36 | 38 | 39 |
| | Horizontal NC | | <15 | 16 | 17 | 23 | 26 | 32 | 33 | 36 | 38 | 40 |
| | Vertical NC | | <15 | <15 | <15 | <15 | <15 | 20 | 21 | 24 | 26 | 28 |
| 6 | CFM/LF | | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
| | Horizontal Throw , Ft | | 29 | 44 | 51 | 57 | 63 | 68 | 73 | 77 | 81 | 85 |
| | Vertical Throw , Ft | | 6 | 14 | 24 | 29 | 32 | 34 | 37 | 39 | 41 | 43 |
| | Horizontal NC | | <15 | 17 | 19 | 24 | 28 | 33 | 34 | 37 | 39 | 41 |
| | Vertical NC | | <15 | <15 | <15 | <15 | 16 | 21 | 22 | 25 | 27 | 29 |
| 7 | CFM/LF | | 70 | 105 | 140 | 175 | 210 | 245 | 280 | 315 | 350 | 385 |
| | Horizontal Throw , Ft | | 32 | 48 | 55 | 63 | 68 | 73 | 78 | 83 | 88 | 92 |
| | Vertical Throw , Ft | | 7 | 15 | 26 | 31 | 34 | 37 | 40 | 42 | 45 | 47 |
| | Horizontal NC | | 16 | 18 | 20 | 24 | 29 | 34 | 35 | 38 | 40 | 42 |
| | Vertical NC | | <15 | <15 | <15 | <15 | 17 | 22 | 23 | 26 | 28 | 30 |
| 8 | CFM/LF | | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 | 440 |
| | Horizontal Throw , Ft | | 34 | 51 | 59 | 66 | 73 | 78 | 84 | 89 | 94 | 99 |
| | Vertical Throw , Ft | | 7 | 16 | 28 | 34 | 37 | 40 | 43 | 45 | 48 | 50 |
| | Horizontal NC | | 18 | 19 | 22 | 25 | 30 | 35 | 37 | 39 | 41 | 43 |
| | Vertical NC | | <15 | <15 | <15 | <15 | 18 | 23 | 25 | 27 | 29 | 31 |

Performance Notes:

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| Length (feet) | 2 | 4 | 8 | 10 | 12 |
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- Vertical throw values are based on a 50 fpm terminal velocity
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