



VERTICAL DISCHARGE

SLD / RLD - SUPPLY

| SLOTS | CFM PER METER | SLOT WIDTH                             |                      |             |     |  |                      |             |     |  |                      |            |     |
|-------|---------------|--|----------------------|-------------|-----|--|----------------------|-------------|-----|--|----------------------|------------|-----|
|       |               | 3/5"                                   |                      |             |     | 4/5"                                   |                      |             |     | 1"                                     |                      |            |     |
|       |               | A <sub>k</sub> /m (Ft <sup>2</sup> /m) | P <sub>s</sub> (IWG) | Throw (Ft)  | NC  | A <sub>k</sub> /m (Ft <sup>2</sup> /m) | P <sub>s</sub> (IWG) | Throw (Ft)  | NC  | A <sub>k</sub> /m (Ft <sup>2</sup> /m) | P <sub>s</sub> (IWG) | Throw (Ft) | NC  |
| 1     | 50            | 0.066                                  | 0.036                | 1 - 3 - 5   | <15 | 0.082                                  | 0.023                | 1 - 3 - 5   | <15 | 0.102                                  | 0.010                | 1 - 3 - 5  | <15 |
|       | 75            |  | 0.081                | 2 - 5 - 7   | 16  |  | 0.052                | 2 - 5 - 7   | 15  |  | 0.023                | 2 - 5 - 7  | <15 |
|       | 100           |  | 0.144                | 3 - 7 - 9   | 23  |  | 0.092                | 3 - 6 - 9   | 22  |  | 0.041                | 3 - 5 - 8  | <15 |
|       | 125           |  | 0.225                | 5 - 8 - 11  | 29  |  | 0.144                | 4 - 7 - 10  | 27  |  | 0.061                | 3 - 6 - 9  | 18  |
|       | 150           |  | 0.328                | 5 - 9 - 12  | 36  |  | 0.210                | 5 - 8 - 11  | 33  |  | 0.086                | 4 - 7 - 10 | 23  |
|       | 175           |  | 0.445                | 7 - 10 - 12 | 40  |  | 0.285                | 6 - 9 - 12  | 36  |  | 0.113                | 5 - 8 - 11 | 26  |
|       | 200           |  | 0.589                | 8 - 11 - 14 | 46  |  | 0.377                | 7 - 10 - 13 | 41  |  | 0.150                | 6 - 9 - 12 | 30  |
| 2     | 50            | 0.175                                  | 0.013                | 1 - 1 - 2   | <15 | 0.221                                  | 0.008                | 1 - 1 - 2   | <15 | 0.270                                  | 0.006                | 1 - 1 - 1  | <15 |
|       | 100           |  | 0.047                | 2 - 3 - 4   | 17  |  | 0.030                | 1 - 1 - 2   | 16  |  | 0.012                | 1 - 1 - 2  | <15 |
|       | 150           |  | 0.105                | 3 - 4 - 6   | 23  |  | 0.067                | 1 - 3 - 5   | 22  |  | 0.039                | 1 - 2 - 3  | 17  |
|       | 200           |  | 0.188                | 4 - 6 - 8   | 35  |  | 0.120                | 3 - 5 - 7   | 32  |  | 0.082                | 2 - 4 - 6  | 22  |
|       | 250           |  | 0.292                | 5 - 7 - 9   | 41  |  | 0.187                | 4 - 6 - 8   | 37  |  | 0.126                | 3 - 5 - 7  | 26  |
|       | 300           |  | 0.422                | 6 - 8 - 10  | 49  |  | 0.270                | 5 - 7 - 9   | 43  |  | 0.194                | 4 - 6 - 8  | 31  |
|       | 350           |  | 0.578                | 7 - 9 - 11  | 54  |  | 0.370                | 6 - 8 - 10  | 47  |  | 0.266                | 5 - 7 - 9  | 34  |
| 3     | 100           | 0.254                                  | 0.022                | 1 - 2 - 3   | <15 | 0.321                                  | 0.014                | 1 - 1 - 2   | <15 | 0.393                                  | 0.009                | 1 - 1 - 1  | <15 |
|       | 150           |  | 0.048                | 2 - 3 - 4   | 17  |  | 0.031                | 1 - 2 - 3   | 16  |  | 0.024                | 1 - 1 - 2  | <15 |
|       | 200           |  | 0.086                | 3 - 5 - 6   | 23  |  | 0.055                | 2 - 4 - 6   | 22  |  | 0.038                | 2 - 3 - 5  | 16  |
|       | 250           |  | 0.134                | 4 - 6 - 8   | 31  |  | 0.086                | 4 - 5 - 7   | 29  |  | 0.049                | 3 - 4 - 6  | 20  |
|       | 300           |  | 0.194                | 5 - 7 - 9   | 38  |  | 0.124                | 5 - 6 - 8   | 34  |  | 0.081                | 4 - 5 - 7  | 24  |
|       | 350           |  | 0.263                | 6 - 8 - 10  | 43  |  | 0.168                | 6 - 7 - 9   | 38  |  | 0.109                | 5 - 6 - 8  | 27  |
|       | 400           |  | 0.344                | 8 - 9 - 11  | 48  |  | 0.220                | 7 - 8 - 10  | 42  |  | 0.142                | 6 - 7 - 9  | 30  |
| 4     | 150           | 0.320                                  | 0.030                | 1 - 2 - 5   | <15 | 0.402                                  | 0.019                | 1 - 2 - 5   | <15 | 0.495                                  | 0.009                | 1 - 1 - 2  | <15 |
|       | 200           |  | 0.052                | 3 - 4 - 6   | 17  |  | 0.033                | 2 - 3 - 5   | 16  |  | 0.020                | 1 - 2 - 3  | <15 |
|       | 250           |  | 0.081                | 4 - 5 - 7   | 23  |  | 0.052                | 3 - 4 - 6   | 22  |  | 0.036                | 2 - 3 - 4  | <15 |
|       | 300           |  | 0.117                | 5 - 6 - 7   | 28  |  | 0.075                | 4 - 5 - 6   | 26  |  | 0.043                | 3 - 4 - 5  | 18  |
|       | 350           |  | 0.159                | 6 - 7 - 8   | 34  |  | 0.102                | 4 - 6 - 7   | 31  |  | 0.077                | 4 - 5 - 6  | 22  |
|       | 400           |  | 0.208                | 7 - 8 - 9   | 36  |  | 0.133                | 5 - 7 - 8   | 33  |  | 0.102                | 4 - 6 - 7  | 23  |
|       | 450           |  | 0.266                | 8 - 9 - 10  | 41  |  | 0.170                | 6 - 8 - 9   | 37  |  | 0.121                | 5 - 7 - 8  | 26  |
| 5     | 200           | 0.389                                  | 0.034                | 2 - 4 - 6   | <15 | 0.490                                  | 0.022                | 1 - 3 - 5   | <15 | 0.602                                  | 0.013                | 1 - 2 - 4  | <15 |
|       | 250           |  | 0.053                | 3 - 4 - 7   | 16  |  | 0.034                | 2 - 3 - 6   | 15  |  | 0.021                | 1 - 2 - 5  | <15 |
|       | 300           |  | 0.077                | 4 - 5 - 8   | 20  |  | 0.049                | 3 - 4 - 6   | 20  |  | 0.039                | 2 - 3 - 5  | 15  |
|       | 350           |  | 0.105                | 5 - 6 - 8   | 26  |  | 0.067                | 4 - 5 - 7   | 25  |  | 0.051                | 3 - 4 - 6  | 17  |
|       | 400           |  | 0.136                | 6 - 7 - 9   | 30  |  | 0.087                | 5 - 6 - 8   | 28  |  | 0.069                | 4 - 5 - 7  | 19  |
|       | 450           |  | 0.172                | 7 - 8 - 9   | 34  |  | 0.110                | 6 - 7 - 8   | 31  |  | 0.074                | 5 - 6 - 7  | 22  |
|       | 500           |  | 0.213                | 8 - 9 - 10  | 39  |  | 0.136                | 7 - 8 - 9   | 35  |  | 0.111                | 6 - 7 - 8  | 25  |
| 6     | 250           | 0.455                                  | 0.038                | 2 - 3 - 6   | <15 | 0.578                                  | 0.024                | 1 - 2 - 5   | <15 | 0.708                                  | 0.017                | 1 - 1 - 3  | <15 |
|       | 300           |  | 0.055                | 3 - 4 - 6   | 16  |  | 0.035                | 2 - 3 - 5   | 15  |  | 0.026                | 1 - 2 - 4  | <15 |
|       | 350           |  | 0.075                | 4 - 5 - 7   | 19  |  | 0.048                | 3 - 4 - 6   | 18  |  | 0.033                | 2 - 3 - 5  | <15 |
|       | 400           |  | 0.097                | 5 - 6 - 8   | 23  |  | 0.062                | 4 - 5 - 7   | 22  |  | 0.048                | 3 - 4 - 6  | 16  |
|       | 450           |  | 0.123                | 6 - 7 - 9   | 26  |  | 0.079                | 5 - 6 - 8   | 25  |  | 0.058                | 4 - 5 - 7  | 17  |
|       | 500           |  | 0.153                | 7 - 8 - 10  | 29  |  | 0.098                | 6 - 7 - 9   | 27  |  | 0.067                | 5 - 6 - 8  | 18  |
|       | 600           |  | 0.219                | 8 - 9 - 11  | 39  |  | 0.140                | 7 - 8 - 10  | 35  |  | 0.106                | 6 - 7 - 9  | 25  |

**SYMBOLS**

- CFM Per Meter : Air volume in cubic feet per 1 meter length
- A<sub>k</sub> : Effective face area in square feet per meter
- P<sub>s</sub> : Static pressure in inch water gauge
- Th : Throw in feet
- NC : Noise Criteria

**CONDITIONS**

- \* Supply
- \* Vertical Discharge flow pattern
- \* Noise Criteria Values are based on (10 dB) room attenuation.
- \* Damper is fully open
- \* The tested specimens were of 1 meter length

**NOTES**

- \* The large throw values are based on the minimum terminal velocity of 50 fpm.
- \* The middle throw values are based on the middle terminal velocity of 100 fpm
- \* The small throw values are based on the maximum terminal velocity of 150 fpm.



LINEAR SLOT DIFFUSERS



HORIZONTAL DISCHARGE

SLD / RLD - SUPPLY

| SLOTS | CFM PER METER | SLOT WIDTH                               |                      |              |    |  |                      |              |     |  |                      |              |     |
|-------|---------------|--|----------------------|--------------|----|--|----------------------|--------------|-----|--|----------------------|--------------|-----|
|       |               | 3/5"                                     |                      |              |    | 4/5"                                     |                      |              |     | 1"                                       |                      |              |     |
|       |               | A <sub>k</sub> / m (Ft <sup>2</sup> / m) | P <sub>s</sub> (IWG) | Throw (Ft)   | NC | A <sub>k</sub> / m (Ft <sup>2</sup> / m) | P <sub>s</sub> (IWG) | Throw (Ft)   | NC  | A <sub>k</sub> / m (Ft <sup>2</sup> / m) | P <sub>s</sub> (IWG) | Throw (Ft)   | NC  |
| 1     | 50            | 0.046                                    | 0.048                | 1 - 4 - 8    | 17 | 0.059                                    | 0.031                | 1 - 4 - 8    | 18  | 0.076                                    | 0.020                | 1 - 3 - 7    | <15 |
|       | 75            |  | 0.109                | 4 - 7 - 11   | 26 |  | 0.070                | 3 - 6 - 10   | 25  |  | 0.045                | 3 - 5 - 9    | 17  |
|       | 100           |  | 0.195                | 6 - 10 - 15  | 36 |  | 0.125                | 5 - 9 - 14   | 33  |  | 0.080                | 5 - 8 - 13   | 23  |
|       | 125           |  | 0.305                | 9 - 15 - 23  | 43 |  | 0.195                | 8 - 13 - 21  | 38  |  | 0.125                | 7 - 12 - 19  | 27  |
|       | 150           |  | 0.438                | 14 - 19 - 29 | 49 |  | 0.280                | 12 - 17 - 26 | 43  |  | 0.179                | 10 - 15 - 23 | 31  |
| 2     | 50            | 0.119                                    | 0.016                | 3 - 6 - 9    | 18 | 0.150                                    | 0.010                | 3 - 5 - 8    | <15 | 0.185                                    | 0.006                | 3 - 5 - 7    | <15 |
|       | 100           |  | 0.063                | 5 - 11 - 19  | 20 |  | 0.040                | 4 - 10 - 17  | 20  |  | 0.026                | 3 - 9 - 15   | <15 |
|       | 150           |  | 0.141                | 6 - 13 - 25  | 34 |  | 0.090                | 5 - 12 - 22  | 31  |  | 0.058                | 4 - 11 - 20  | 22  |
|       | 200           |  | 0.247                | 10 - 20 - 30 | 45 |  | 0.158                | 8 - 18 - 28  | 40  |  | 0.101                | 7 - 16 - 25  | 29  |
|       | 250           |  | 0.391                | 14 - 25 - 35 | 51 |  | 0.250                | 12 - 23 - 33 | 45  |  | 0.160                | 10 - 21 - 30 | 33  |
| 3     | 100           | 0.191                                    | 0.031                | 4 - 6 - 12   | 16 | 0.240                                    | 0.020                | 3 - 5 - 11   | 17  | 0.297                                    | 0.013                | 3 - 5 - 10   | <15 |
|       | 150           |  | 0.069                | 6 - 10 - 20  | 24 |  | 0.044                | 5 - 9 - 18   | 23  |  | 0.028                | 4 - 8 - 15   | 15  |
|       | 200           |  | 0.122                | 7 - 15 - 25  | 34 |  | 0.078                | 6 - 13 - 23  | 31  |  | 0.050                | 5 - 12 - 21  | 22  |
|       | 250           |  | 0.191                | 10 - 20 - 32 | 43 |  | 0.122                | 9 - 18 - 29  | 38  |  | 0.078                | 8 - 16 - 26  | 27  |
|       | 300           |  | 0.291                | 15 - 24 - 36 | 48 |  | 0.186                | 13 - 22 - 34 | 42  |  | 0.119                | 12 - 20 - 31 | 30  |
| 4     | 150           | 0.257                                    | 0.039                | 5 - 7 - 17   | 19 | 0.324                                    | 0.025                | 4 - 6 - 15   | 19  | 0.399                                    | 0.016                | 3 - 5 - 13   | <15 |
|       | 200           |  | 0.069                | 6 - 11 - 19  | 26 |  | 0.044                | 5 - 10 - 18  | 25  |  | 0.028                | 4 - 9 - 16   | 17  |
|       | 250           |  | 0.108                | 7 - 15 - 24  | 33 |  | 0.069                | 6 - 13 - 22  | 30  |  | 0.044                | 5 - 11 - 20  | 21  |
|       | 300           |  | 0.156                | 10 - 20 - 30 | 39 |  | 0.100                | 9 - 18 - 28  | 35  |  | 0.064                | 8 - 16 - 25  | 25  |
|       | 350           |  | 0.211                | 14 - 25 - 37 | 45 |  | 0.135                | 12 - 23 - 34 | 40  |  | 0.086                | 10 - 21 - 31 | 29  |
| 5     | 200           | 0.323                                    | 0.053                | 6 - 8 - 18   | 21 | 0.410                                    | 0.034                | 5 - 7 - 16   | 21  | 0.508                                    | 0.022                | 4 - 6 - 14   | <15 |
|       | 250           |  | 0.081                | 8 - 13 - 22  | 28 |  | 0.052                | 7 - 11 - 20  | 26  |  | 0.033                | 6 - 10 - 18  | 18  |
|       | 300           |  | 0.117                | 10 - 16 - 25 | 33 |  | 0.075                | 9 - 14 - 23  | 30  |  | 0.048                | 8 - 12 - 21  | 21  |
|       | 350           |  | 0.159                | 13 - 21 - 32 | 38 |  | 0.102                | 11 - 19 - 29 | 34  |  | 0.065                | 10 - 17 - 26 | 24  |
|       | 400           |  | 0.209                | 15 - 25 - 36 | 44 |  | 0.134                | 13 - 23 - 33 | 39  |  | 0.086                | 11 - 21 - 30 | 28  |
| 6     | 250           | 0.389                                    | 0.063                | 6 - 10 - 18  | 23 | 0.494                                    | 0.040                | 5 - 8 - 16   | 22  | 0.611                                    | 0.026                | 4 - 7 - 14   | <15 |
|       | 300           |  | 0.089                | 8 - 12 - 23  | 30 |  | 0.057                | 7 - 11 - 20  | 28  |  | 0.036                | 6 - 10 - 18  | 19  |
|       | 350           |  | 0.122                | 10 - 17 - 27 | 34 |  | 0.078                | 9 - 15 - 24  | 31  |  | 0.050                | 8 - 13 - 21  | 22  |
|       | 400           |  | 0.159                | 11 - 21 - 33 | 39 |  | 0.102                | 10 - 19 - 30 | 35  |  | 0.065                | 9 - 17 - 27  | 25  |
|       | 450           |  | 0.203                | 13 - 25 - 37 | 43 |  | 0.130                | 12 - 23 - 34 | 38  |  | 0.083                | 11 - 21 - 31 | 27  |

SYMBOLS

CFM Per Meter : Air volume in cubic feet per 1 meter length  
 Ak : Effective face area in square feet per meter  
 Ps : Static pressure in inch water gauge  
 Th : Throw in feet  
 NC : Noise Criteria

CONDITIONS

\* Supply  
 \* Horizontal Discharge flow pattern  
 \* Noise Criteria Values are based on (10 dB) room attenuation.  
 \* Damper is fully open  
 \* The tested specimens were of 1 meter length

NOTES

\* The large throw values are based on the minimum terminal velocity of 50 fpm.  
 \* The middle throw values are based on the middle terminal velocity of 100 fpm  
 \* The small throw values are based on the maximum terminal velocity of 150 fpm.





SLD / RLD - RETURN

| SLOTS | CFM PER METER | SLOT WIDTH                |    |                           |    |                           |     |
|-------|---------------|---------------------------|----|---------------------------|----|---------------------------|-----|
|       |               | 3/5"                      |    | 4/5"                      |    | 1"                        |     |
|       |               | Neg. P <sub>s</sub> (IWG) | NC | Neg. P <sub>s</sub> (IWG) | NC | Neg. P <sub>s</sub> (IWG) | NC  |
| 1     | 75            | 0.133                     | 19 | 0.085                     | 19 | 0.054                     | <15 |
|       | 100           | 0.234                     | 26 | 0.150                     | 25 | 0.096                     | 17  |
|       | 125           | 0.359                     | 35 | 0.230                     | 32 | 0.147                     | 22  |
|       | 150           | 0.544                     | 44 | 0.348                     | 39 | 0.223                     | 28  |
|       | 175           | 0.734                     | 50 | 0.470                     | 44 | 0.301                     | 32  |
| 2     | 150           | 0.156                     | 19 | 0.100                     | 19 | 0.064                     | <15 |
|       | 175           | 0.228                     | 26 | 0.146                     | 25 | 0.093                     | 17  |
|       | 200           | 0.283                     | 31 | 0.181                     | 29 | 0.116                     | 20  |
|       | 250           | 0.438                     | 40 | 0.280                     | 36 | 0.179                     | 26  |
|       | 300           | 0.625                     | 48 | 0.400                     | 42 | 0.256                     | 30  |
| 3     | 200           | 0.156                     | 20 | 0.100                     | 20 | 0.064                     | <15 |
|       | 250           | 0.244                     | 28 | 0.156                     | 26 | 0.100                     | 18  |
|       | 300           | 0.352                     | 34 | 0.225                     | 31 | 0.144                     | 22  |
|       | 350           | 0.478                     | 41 | 0.306                     | 37 | 0.196                     | 26  |
|       | 450           | 0.794                     | 49 | 0.508                     | 43 | 0.325                     | 31  |
| 4     | 300           | 0.250                     | 23 | 0.160                     | 22 | 0.102                     | <15 |
|       | 350           | 0.339                     | 30 | 0.217                     | 28 | 0.139                     | 19  |
|       | 400           | 0.438                     | 35 | 0.280                     | 32 | 0.179                     | 22  |
|       | 500           | 0.661                     | 43 | 0.423                     | 38 | 0.271                     | 27  |
|       | 600           | 0.981                     | 50 | 0.628                     | 44 | 0.402                     | 32  |
| 5     | 300           | 0.175                     | 21 | 0.112                     | 21 | 0.072                     | <15 |
|       | 400           | 0.309                     | 30 | 0.198                     | 28 | 0.127                     | 19  |
|       | 500           | 0.484                     | 38 | 0.310                     | 34 | 0.198                     | 24  |
|       | 600           | 0.695                     | 43 | 0.445                     | 38 | 0.285                     | 27  |
|       | 700           | 0.945                     | 50 | 0.605                     | 44 | 0.387                     | 32  |
| 6     | 400           | 0.244                     | 24 | 0.156                     | 23 | 0.100                     | 15  |
|       | 500           | 0.380                     | 31 | 0.243                     | 29 | 0.156                     | 20  |
|       | 600           | 0.547                     | 39 | 0.350                     | 35 | 0.224                     | 25  |
|       | 700           | 0.742                     | 44 | 0.475                     | 39 | 0.304                     | 28  |
|       | 800           | 0.972                     | 50 | 0.622                     | 44 | 0.398                     | 32  |

**SYMBOLS**

CFM Per Meter : Air volume in cubic feet per 1 meter length  
 P<sub>s</sub> : Negative static pressure in inch water gauge  
 NC : Noise Criteria

**CONDITIONS**

\* Return  
 \* Noise Criteria Values are based on (10 dB) room attenuation.  
 \* Damper is fully open  
 \* The tested specimens were of 1 meter length







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