



## LINEAR SLOT DIFFUSERS

### QUICK FACTS

- ▶ Flexible spread pattern
- ▶ Vertical spread option
- ▶ Simultaneous vertical/horizontal spread option
- ▶ Large induction effect
- ▶ Possible to mount in long runs
- ▶ Corner module
- ▶ Regulation and sound absorbent functions



### QUALITY ASSURANCE

An ISO 9001:2015 certified company  
Product tested and approved by ETL testing laboratories USA





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- ▶ Air Control linear slot diffusers are specially designed to provide supply or return air in heating, cooling or ventilating systems. Constructed of extruded aluminium, these diffusers can be used in virtually any type of ceiling.
- ▶ Available slot width of 16mm, 20mm (standard) and 25mm.
- ▶ Available in 1 to 8 slots.
- ▶ Frame width of 30mm standard.
- ▶ Air distribution can be changed vertically or horizontally by means of deflection blades without changing the air flow rate. These blades can be fully adjusted from face opening.
- ▶ Air flow rate can be adjusted by fixing hit and miss damper at the rear side of the diffuser.
- ▶ Positive alignment of adjacent sections can be made by using alignment strips.
- ▶ Suitable for installation for ceiling and sills.
- ▶ Also available in curved shape without the hit and miss damper or deflector blades



### AVAILABLE MODELS

1. AC - SLD - Supply Linear Diffuser with deflector blades and hit and miss damper.
2. AC - RLD - Return Linear Diffuser without damper.

### FINISHES

Mill Aluminium

Polyester powder coating to any RAL or BS colour

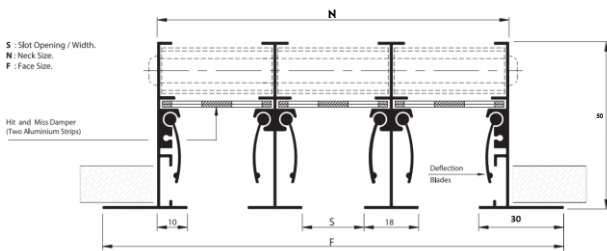




## TECHNICAL DRAWINGS & DATA

Linear Slot Diffusers - Dimensions

| No. of Slots | S= 16 mm |     | S= 20 mm (standard) |     | S= 25 mm |     |
|--------------|----------|-----|---------------------|-----|----------|-----|
|              | N        | F   | N                   | F   | N        | F   |
| 1            | 36       | 78  | 39                  | 83  | 45       | 89  |
| 2            | 68       | 115 | 78                  | 122 | 88       | 132 |
| 3            | 104      | 148 | 116                 | 161 | 131      | 176 |
| 4            | 138      | 182 | 154                 | 198 | 175      | 220 |
| 5            | 173      | 215 | 192                 | 236 | 219      | 262 |
| 6            | 206      | 242 | 230                 | 266 | 266      | 302 |
| 7            | 240      | 276 | 268                 | 304 | 310      | 346 |
| 8            | 274      | 310 | 306                 | 342 | 354      | 390 |



## END CAP ARRANGEMENTS



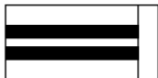
With open ends



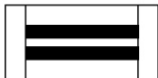
With one side flange



With both side flange



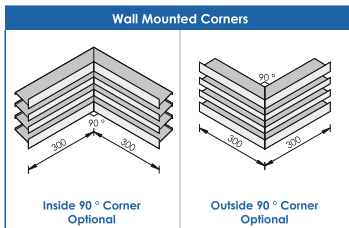
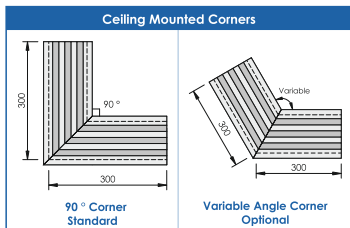
With one side end cap



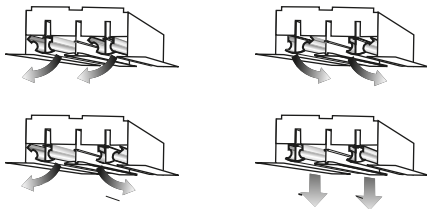
With both side end cap



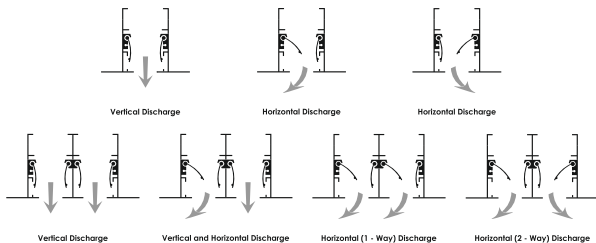
## MILTERED CORNERS



## SPREAD PATTERN



## SINGLE & MULTIPLE PATTERN ADJUSTMENT



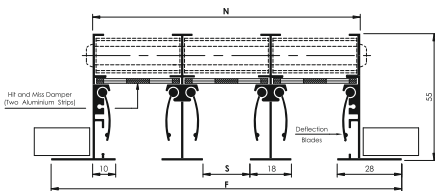
• Two deflectors per slot provide an adjustable air pattern of fully 180°.



## AVAILABLE MODELS

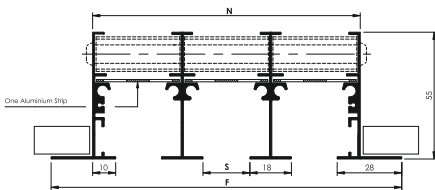
### Construction and Dimensional Details

#### Model SLD



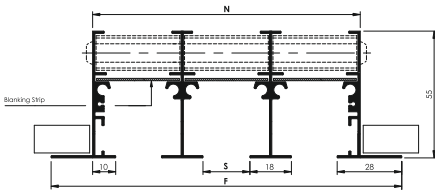
- **SLD** : is Supply Air Linear Slot Diffuser c/w Deflection Blades & Hit and Miss Damper.

#### Model RLD



- **RLD** : is Return / Extract Air Linear Slot Diffuser w/o Deflection Blades & Hit and Miss Damper.

#### Model DLD



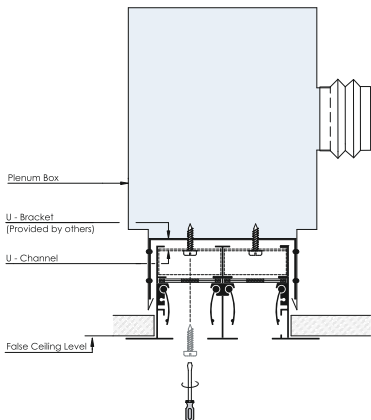
- **DLD** : is Dummy (Non Active) Linear Slot Diffuser supplied with blanking strip replacing the Hit and Miss Damper.
- **S** : Slot Opening / Width.
- **N** : Neck Size.
- **F** : Face Size.
- All dimensions are in mm and subject to  $\pm 1$  mm tolerance.



## Mounting Instructions

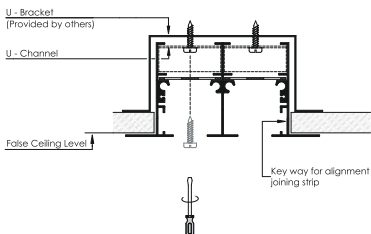
### With Plenum Box (provided by others) :

Fix the plenum to the ceiling. The plenum has a border in the lower part by which the upper part of the diffuser can be inserted into it. Your diffuser is provided with ceiling mounting fixing U - Channels. These channels are inserted into the keyway and should be slid into the final position corresponding to the opposite fixing point previously prepared on the U - Bracket as shown (plenums usually supplied with these brackets). The two elements (diffuser and plenum) can be attached together using self tapping screws and screw driver. The diffuser should be made level using a water level and by adjusting the screws positions (left, right, up and down) as shown.



### Without Plenum Box :

In this case the diffuser can be attached to U - Shape bracket (provided by others) and rest directly on the ceiling as shown.



### Diffusers in Continuous Running :

Normal installations as described above but, besides apply the provided joining key strips between the diffuser adjoining sections. After insertion and alignment of the joined sections set diffusers in the final position.



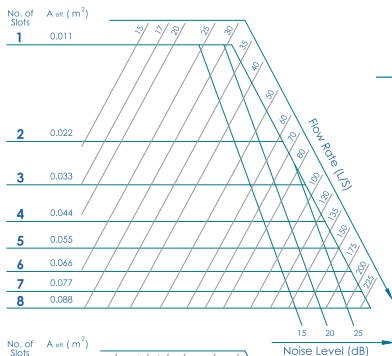
# ENGINEERING & PERFORMANCE DATA

## Vertical Discharge

Slot Opening / Width = 16 mm

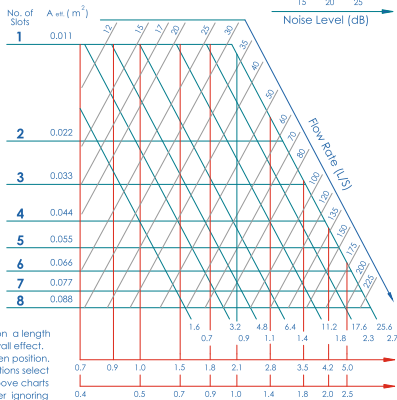
Correction table for other Lengths :

| Length (m) | Noise Level | Throw (m) |
|------------|-------------|-----------|
| 1.0        | 0           | x 1.00    |
| 1.5        | + 2         | x 1.05    |
| 2.0        | + 3         |           |
| 2.5        | + 4         |           |
| 3.0        | + 5         | x 1.10    |
| 4.0        | + 6         |           |
| 5.0        | + 7         |           |
| 6.0        | + 8         |           |
| 8.0        | + 9         | x 1.15    |
| 10.0       | + 10        |           |



Correction table for Return/Extract applications :

|                   |        |
|-------------------|--------|
| $V_{eff} (m/s)$   | x 0.45 |
| $\Delta P_i (Pa)$ | x 0.65 |
| NC                | - 10   |



Pressure Drop  
 $\Delta P_i (Pa)$   
 $V_{eff} (m/s)$   
 $Th. (m)$   
 (@  $V_t = 0.25 m/s$ )  
 $Th. (m)$   
 (@  $V_t = 0.50 m/s$ )

- Performances are based on a length of one metre and with no wall effect.
- Hill - Miss Damper at full open position.
- For Return / Extract applications select performance data using above charts and correction table after ignoring throw values.
- Noise Level values are based on 10 dB room attenuation.





# ENGINEERING & PERFORMANCE DATA

## Vertical Discharge

## Slot Opening / Width = 20 mm (Standard)

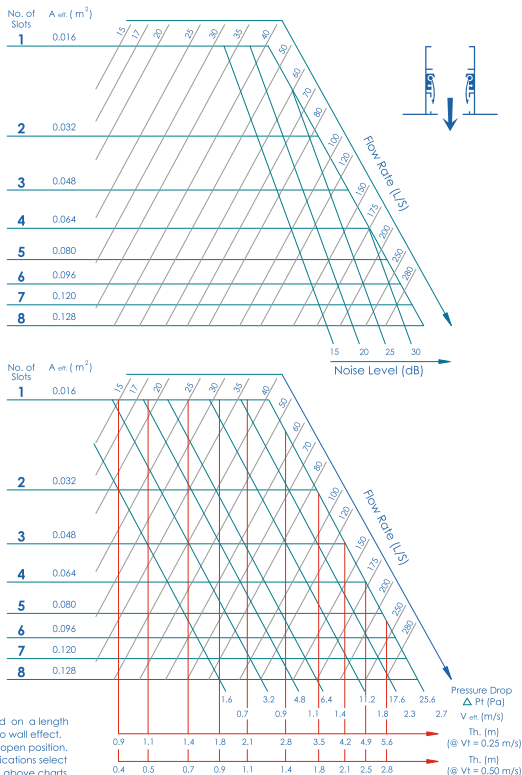
Correction table for other Lengths :

| Length (m) | Noise Level | Throw (m) |
|------------|-------------|-----------|
| 1.0        | 0           | x 1.00    |
| 1.5        | +2          | x 1.05    |
| 2.0        | +3          |           |
| 2.5        | +4          |           |
| 3.0        | +5          | x 1.10    |
| 4.0        | +6          |           |
| 5.0        | +7          |           |
| 6.0        | +8          |           |
| 8.0        | +9          | x 1.15    |
| 10.0       | +10         |           |

Correction table for Return/Extract applications :

|                  |        |
|------------------|--------|
| $V_{eff}$ (m/s)  | x 0.45 |
| $\Delta Pt$ (Pa) | x 0.65 |
| NC               | - 10   |

- Performances are based on a length of one metre and with no wall effect.
- Hit - Miss Damper at full open position.
- For Return / Extract applications select performance data using above charts and correction table after ignoring throw values.
- Noise Level values are based on 10 dB room attenuation.





# ENGINEERING & PERFORMANCE DATA

## Vertical Discharge

Slot Opening / Width = 25 mm

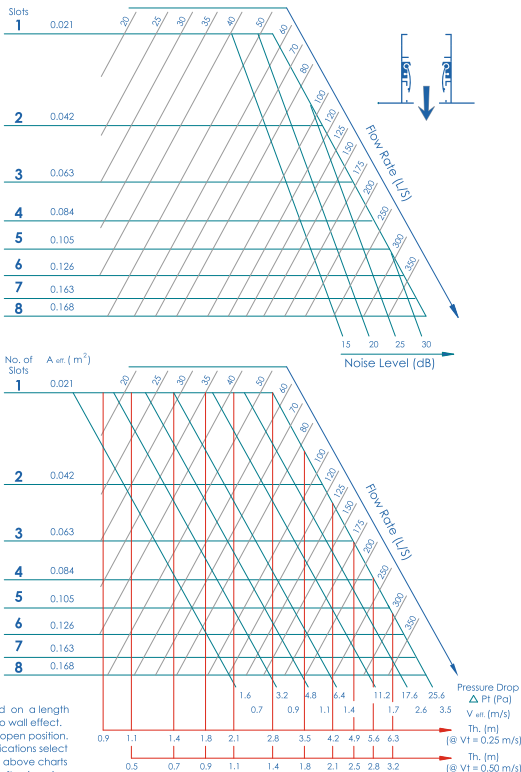
Correction table for other Lengths :

| Length (m) | Noise Level | Throw (m) |
|------------|-------------|-----------|
| 1.0        | 0           | x 1.00    |
| 1.5        | + 2         | x 1.05    |
| 2.0        | + 3         |           |
| 2.5        | + 4         |           |
| 3.0        | + 5         | x 1.10    |
| 4.0        | + 6         |           |
| 5.0        | + 7         |           |
| 6.0        | + 8         |           |
| 8.0        | + 9         | x 1.15    |
| 10.0       | + 10        |           |

Correction table for Return/Extract applications :

|                   |        |
|-------------------|--------|
| $V_{eff}$ (m/s)   | x 0.45 |
| $\Delta P_t$ (Pa) | x 0.65 |
| NC                | - 10   |

- Performances are based on a length of one metre and with no wall effect.
- Hit - Miss Damper at full open position.
- For Return / Extract applications select performance data using above charts and correction table after ignoring throw values.
- Noise Level values are based on 10 dB room attenuation.





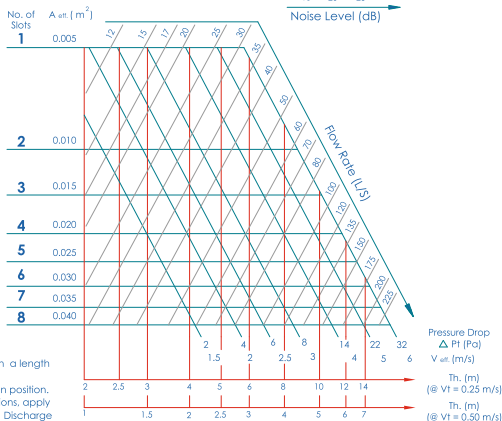
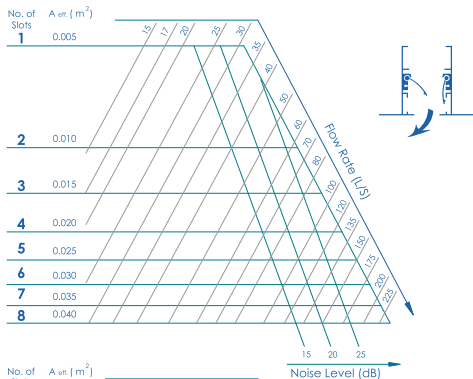
## ENGINEERING & PERFORMANCE DATA

### Horizontal Discharge

Slot Opening / Width = 16 mm

Correction table for other Lengths :

| Length (m) | Noise Level | Throw (m) |
|------------|-------------|-----------|
| 1.0        | 0           | x 1.00    |
| 1.5        | +2          | x 1.05    |
| 2.0        | +3          |           |
| 2.5        | +4          |           |
| 3.0        | +5          | x 1.10    |
| 4.0        | +6          |           |
| 5.0        | +7          |           |
| 6.0        | +8          |           |
| 8.0        | +9          | x 1.15    |
| 10.0       | +10         |           |



- Performances are based on a length of one metre.
- Hit - Miss Damper at full open position.
- For Return / Extract applications, apply the same data on Vertical Discharge charts (page No. LD - 07) and use correction table.
- Noise Level values are based on 10 dB room attenuation.



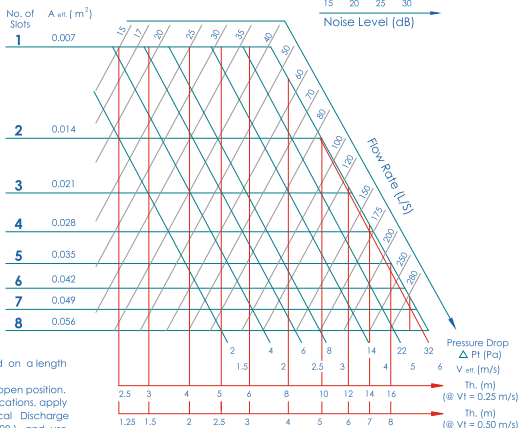
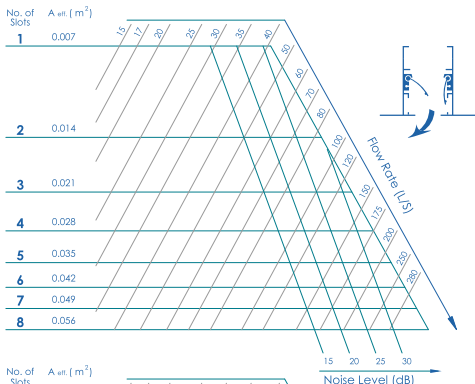
## ENGINEERING & PERFORMANCE DATA

### Horizontal Discharge

Slot Opening / Width = 20 mm (Standard)

Correction table for other lengths :

| Length (m) | Noise Level | Throw (m) |
|------------|-------------|-----------|
| 1.0        | 0           | x 1.00    |
| 1.5        | +2          | x 1.05    |
| 2.0        | +3          |           |
| 2.5        | +4          |           |
| 3.0        | +5          | x 1.10    |
| 4.0        | +6          |           |
| 5.0        | +7          |           |
| 6.0        | +8          |           |
| 8.0        | +9          | x 1.15    |
| 10.0       | +10         |           |



- Performances are based on a length of one metre.
- Hit - Miss Damper at full open position.
- For Return / Extract applications, apply the same data on Vertical Discharge charts (page No. LD - 08) and use correction table.
- Noise Level values are based on 10 dB room attenuation.



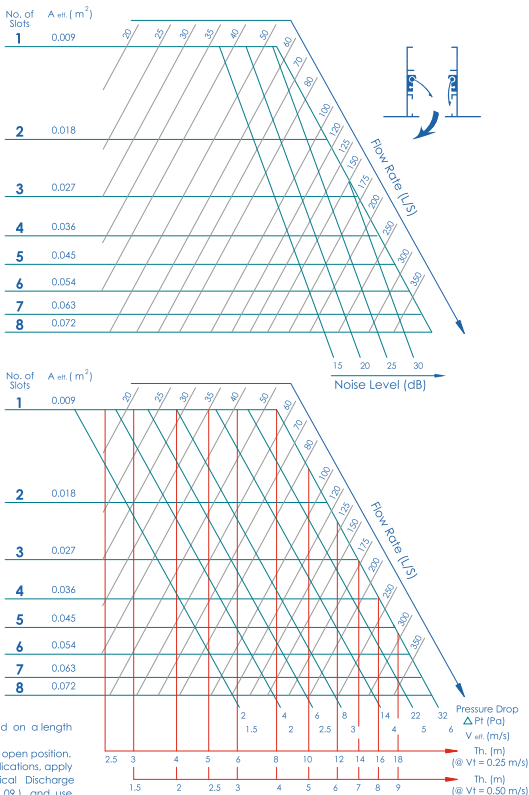
## ENGINEERING & PERFORMANCE DATA

### Horizontal Discharge

Slot Opening / Width = 25 mm

Correction table for  
other Lengths :

| Length<br>(m) | Noise<br>Level | Throw<br>(m) |
|---------------|----------------|--------------|
| 1.0           | 0              | x 1.00       |
| 1.5           | +2             | x 1.05       |
| 2.0           | +3             |              |
| 2.5           | +4             |              |
| 3.0           | +5             | x 1.10       |
| 4.0           | +6             |              |
| 5.0           | +7             |              |
| 6.0           | +8             |              |
| 8.0           | +9             | x 1.15       |
| 10.0          | +10            |              |

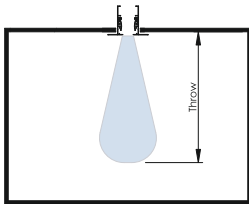


- Performances are based on a length of one metre.
- Hit - Miss Damper of full open position.
- For Return / Extract applications, apply the same data on Vertical Discharge charts (page No. LD - 09) and use correction table.
- Noise Level values are based on 10 dB room attenuation.

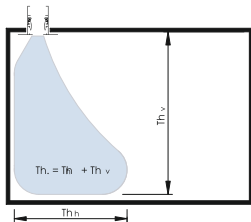


## ENGINEERING &amp; PERFORMANCE DATA

## Throw and Wall Effect for Vertical Discharge



Vertical Discharge without wall effect



Vertical Discharge with wall effect

Note : In case of wall effect, all performance data will remain the same except that throw values to be multiplied by 1.43

## Linear Slot Diffusers Selection Procedure

I . Vertical Discharge (without wall effect) :  
(Illustrative Example)

Given Data :  
No. of Slots = 3  
Slot Opening / Width = 20 mm (Standard).  
Length = 2.5 m.  
Air Flow Rate = 530 CFM = 250 (L/S).  
Per one metre length 250 (L/S) / 2.5 m = 100 (L/S)/m.  
Refer to page No. LD - 08 for Vertical Discharge and 20 mm slot opening and find out that :  
 $A_{eff.} = 0.048 \text{ m}^2$ .  
Noise Level =  $22 + 4 = 26 \text{ dB}$  (value as read from the chart and corrected by the correction table for other lengths @ 2.5 m).  
 $V_{eff.} = 2.2 \text{ m/s}$ .  
 $\Delta Pt = 16.8 \text{ Pa}$ .  
 $Th. @ V_1 = 0.25 \text{ m/s} = 3.4 \times 1.1 = 3.7 \text{ m}$  (value as read from the chart and corrected by the correction table for other lengths @ 2.5 m).  
Ditto, but @  $0.5 \text{ m/s} = 1.7 \times 1.1 = 1.9 \text{ m}$ .  
In case of wall effect as shown above, only correct the throw values to be :  
 $Th. @ V_1 = 0.25 \text{ m/s} = 3.7 \times 1.43 = 5.3 \text{ m}$ .  
Ditto, but @  $0.5 \text{ m/s} = 1.9 \times 1.43 = 2.7 \text{ m}$ .

For Return / Extract data (if required) ignore throw values and read others as follows :-  
Noise Level =  $26 - 10 = 16 \text{ dB}$  (see correction table).  
 $V_{eff.} = 2.2 \times 0.45 = 1.0 \text{ m/s}$  (see correction table).  
 $\Delta Pt = 16.8 \times 0.65 = 10.9 \text{ Pa}$  (see correction table).

II . Horizontal Discharge :  
(Illustrative Example)

Given Data :  
No. of Slots = 4  
Slot Opening / Width = 25 mm.  
Length = 5.0 m.  
Air Flow Rate = 1430 CFM = 675 (L/S).  
Per one metre length 675 (L/S) / 5.0 m = 135 (L/S)/m.  
Refer to page No. LD - 12 for Horizontal Discharge and 25 mm slot opening and find out that :  
 $A_{eff.} = 0.036 \text{ m}^2$ .  
Noise Level =  $19 + 7 = 26 \text{ dB}$  (value as read from the chart and corrected by the correction table for other lengths @ 5 m).  
 $V_{eff.} = 3.8 \text{ m/s}$ .  
 $\Delta Pt = 12.5 \text{ Pa}$ .  
 $Th. @ V_1 = 0.25 \text{ m/s} = 10 \times 1.1 = 11 \text{ m}$  (value as read from the chart and corrected by the correction table for other lengths @ 5.0 m).  
Ditto, but @  $0.5 \text{ m/s} = 5 \times 1.1 = 5.5 \text{ m}$ .  
For Return / Extract data (if required) ignore throw values and read others after applying the same given data again but on Vertical Discharge charts (page No. LD - 09) as follows :-  
Noise Level =  $17 - 10 = 7 < 15 \text{ dB}$  (see correction table).  
 $V_{eff.} = 5.6 \times 0.45 = 2.5 \text{ m/s}$  (see correction table).  
 $\Delta Pt = 10 \times 0.65 = 6.5 \text{ Pa}$  (see correction table).



# ENGINEERING & PERFORMANCE DATA

Performances at Selected Values of Air Flow Rate (S = 16 mm)

| No. of Slots | Flow Rate (L/S) | Vertical Discharge                  |                      |                         |             |                 |                  | Horizontal Discharge                |                      |                         |             |            |  |
|--------------|-----------------|-------------------------------------|----------------------|-------------------------|-------------|-----------------|------------------|-------------------------------------|----------------------|-------------------------|-------------|------------|--|
|              |                 | A <sub>eff.</sub> (m <sup>2</sup> ) | ΔP <sub>i</sub> (Pa) | V <sub>eff.</sub> (m/s) | Noise Level | Th. (m)         |                  | A <sub>eff.</sub> (m <sup>2</sup> ) | ΔP <sub>i</sub> (Pa) | V <sub>eff.</sub> (m/s) | Noise Level | Th. (m)    |  |
|              |                 |                                     |                      |                         |             | w/o Wall Effect | with Wall Effect |                                     |                      |                         |             |            |  |
| 1            | 15              | 0.011                               | 6.4                  | 1.4                     | < 15        | 0.5 - 1.0       | 0.7 - 1.5        | 0.005                               | 8.0                  | 3.0                     | < 15        | 1.5 - 2.9  |  |
|              | 20              |                                     | 11.2                 | 1.8                     | < 15        | 0.7 - 1.3       | 1.0 - 1.9        |                                     | 14.0                 | 4.0                     | < 15        | 1.9 - 3.8  |  |
|              | 25              |                                     | 17.6                 | 2.3                     | 16          | 0.8 - 1.7       | 1.2 - 2.4        |                                     | 21.0                 | 5.0                     | 19          | 2.4 - 4.8  |  |
|              | 30              |                                     | 22.4                 | 2.4                     | 18          | 0.9 - 1.8       | 1.3 - 2.6        |                                     | 28.0                 | 5.3                     | 21          | 2.6 - 5.2  |  |
|              | 35              |                                     | 24.0                 | 2.6                     | 21          | 1.0 - 2.0       | 1.4 - 2.8        |                                     | 30.0                 | 5.8                     | 24          | 2.8 - 5.6  |  |
| 2            | 40              | 0.022                               | 33.6                 | 3.5                     | 29          | 1.2 - 2.4       | 1.7 - 3.4        | 0.010                               | 38.0                 | 6.5                     | 28          | 3.4 - 6.8  |  |
|              | 30              |                                     | 5.6                  | 1.2                     | < 15        | 0.7 - 1.3       | 1.0 - 1.9        |                                     | 42.0                 | 7.0                     | 32          | 4.0 - 8.0  |  |
|              | 35              |                                     | 7.2                  | 1.5                     | < 15        | 0.8 - 1.6       | 1.1 - 2.3        |                                     | 7.0                  | 2.7                     | < 15        | 1.9 - 3.8  |  |
|              | 40              |                                     | 10.4                 | 1.8                     | < 15        | 0.9 - 1.9       | 1.4 - 2.7        |                                     | 9.0                  | 3.3                     | < 15        | 2.3 - 4.5  |  |
|              | 45              |                                     | 14.4                 | 1.9                     | 15          | 1.1 - 2.1       | 1.5 - 3.0        |                                     | 13.0                 | 3.9                     | 15          | 2.7 - 5.4  |  |
| 3            | 50              | 0.033                               | 16.0                 | 2.2                     | 18          | 1.2 - 2.4       | 1.7 - 3.4        | 0.015                               | 18.0                 | 4.4                     | 18          | 3.0 - 6.0  |  |
|              | 60              |                                     | 24.0                 | 2.6                     | 23          | 1.5 - 2.9       | 2.1 - 4.2        |                                     | 20.0                 | 4.8                     | 21          | 3.4 - 6.8  |  |
|              | 70              |                                     | 30.4                 | 3.1                     | 25          | 1.7 - 3.3       | 2.4 - 4.8        |                                     | 30.0                 | 5.8                     | 26          | 4.2 - 8.4  |  |
|              | 80              |                                     | 5.2                  | 1.2                     | < 15        | 0.8 - 1.6       | 1.2 - 2.3        |                                     | 38.0                 | 6.8                     | 28          | 4.5 - 9.0  |  |
|              | 90              |                                     | 8.0                  | 1.5                     | < 15        | 1.0 - 2.0       | 1.4 - 2.8        |                                     | 6.5                  | 2.7                     | < 15        | 2.3 - 4.6  |  |
| 4            | 100             | 0.044                               | 12.0                 | 1.8                     | 16          | 1.2 - 2.5       | 1.8 - 3.5        | 0.020                               | 10.0                 | 3.4                     | < 15        | 2.8 - 5.6  |  |
|              | 70              |                                     | 16.0                 | 2.2                     | 19          | 1.4 - 2.8       | 2.0 - 4.1        |                                     | 15.0                 | 4.0                     | 19          | 3.5 - 7.0  |  |
|              | 80              |                                     | 20.8                 | 2.4                     | 23          | 1.6 - 3.2       | 2.3 - 4.6        |                                     | 20.0                 | 4.8                     | 22          | 4.1 - 8.1  |  |
|              | 90              |                                     | 25.6                 | 2.7                     | 25          | 1.8 - 3.5       | 2.5 - 5.0        |                                     | 26.0                 | 5.3                     | 26          | 4.6 - 9.2  |  |
|              | 100             |                                     | 29.6                 | 2.9                     | 28          | 1.9 - 3.9       | 2.8 - 5.5        |                                     | 32.0                 | 6.0                     | 28          | 5.0 - 10   |  |
| 5            | 50              | 0.055                               | 4.8                  | 1.1                     | < 15        | 0.9 - 1.7       | 1.2 - 2.5        | 0.025                               | 37.0                 | 6.5                     | 31          | 5.5 - 11   |  |
|              | 60              |                                     | 6.4                  | 1.4                     | < 15        | 1.0 - 2.1       | 1.5 - 3.0        |                                     | 6.0                  | 2.5                     | < 15        | 2.5 - 4.9  |  |
|              | 70              |                                     | 7.2                  | 1.6                     | < 15        | 1.2 - 2.5       | 1.8 - 3.5        |                                     | 8.0                  | 3.0                     | < 15        | 3.0 - 5.9  |  |
|              | 80              |                                     | 11.2                 | 1.8                     | 16          | 1.4 - 2.8       | 2.0 - 4.0        |                                     | 9.0                  | 3.5                     | 15          | 3.5 - 7.0  |  |
|              | 100             |                                     | 17.6                 | 2.3                     | 22          | 1.7 - 3.4       | 2.4 - 4.8        |                                     | 14.0                 | 4.0                     | 19          | 4.0 - 8.0  |  |
| 6            | 120             | 0.066                               | 23.2                 | 2.6                     | 25          | 1.9 - 3.9       | 2.8 - 5.5        | 0.030                               | 22.0                 | 5.0                     | 25          | 4.8 - 9.6  |  |
|              | 135             |                                     | 29.6                 | 2.8                     | 29          | 2.2 - 4.4       | 3.2 - 6.4        |                                     | 29.0                 | 5.8                     | 28          | 5.5 - 11   |  |
|              | 70              |                                     | 6.0                  | 1.3                     | < 15        | 1.1 - 2.1       | 1.5 - 3.0        |                                     | 37.0                 | 6.3                     | 32          | 6.4 - 12   |  |
|              | 80              |                                     | 7.6                  | 1.5                     | < 15        | 1.3 - 2.5       | 1.8 - 3.6        |                                     | 7.5                  | 2.8                     | < 15        | 3.0 - 6.0  |  |
|              | 90              |                                     | 8.8                  | 1.7                     | < 15        | 1.4 - 2.8       | 2.0 - 4.0        |                                     | 9.5                  | 3.3                     | 15          | 3.6 - 7.2  |  |
| 7            | 100             | 0.077                               | 11.2                 | 1.8                     | 17          | 1.5 - 3.1       | 2.2 - 4.4        | 0.035                               | 11.0                 | 3.8                     | 17          | 4.0 - 8.0  |  |
|              | 120             |                                     | 15.2                 | 2.2                     | 21          | 1.8 - 3.5       | 2.5 - 5.0        |                                     | 14.0                 | 4.0                     | 20          | 4.4 - 8.8  |  |
|              | 135             |                                     | 17.6                 | 2.4                     | 24          | 2.0 - 4.0       | 2.9 - 5.7        |                                     | 19.0                 | 4.8                     | 24          | 5.0 - 10   |  |
|              | 150             |                                     | 25.6                 | 2.7                     | 29          | 2.3 - 4.6       | 3.3 - 6.5        |                                     | 22.0                 | 5.3                     | 27          | 6.0 - 11.4 |  |
|              | 80              |                                     | 5.6                  | 1.2                     | < 15        | 1.1 - 2.2       | 1.6 - 3.2        |                                     | 32.0                 | 6.0                     | 32          | 6.5 - 13   |  |
| 8            | 90              | 0.088                               | 6.4                  | 1.3                     | < 15        | 1.3 - 2.6       | 1.9 - 3.7        | 0.040                               | 7.0                  | 2.7                     | < 15        | 3.2 - 6.4  |  |
|              | 100             |                                     | 8.0                  | 1.5                     | < 15        | 1.4 - 2.8       | 2.0 - 4.0        |                                     | 8.0                  | 2.9                     | < 15        | 3.7 - 7.4  |  |
|              | 120             |                                     | 10.4                 | 1.8                     | 17          | 1.6 - 3.2       | 2.3 - 4.6        |                                     | 10.0                 | 3.3                     | 16          | 4.0 - 8.0  |  |
|              | 135             |                                     | 14.4                 | 2.0                     | 20          | 1.8 - 3.6       | 2.6 - 5.2        |                                     | 13.0                 | 3.9                     | 20          | 4.6 - 9.2  |  |
|              | 150             |                                     | 17.6                 | 2.3                     | 24          | 2.4 - 4.8       | 3.5 - 6.9        |                                     | 18.0                 | 4.5                     | 23          | 5.0 - 10.4 |  |
| 9            | 175             | 0.099                               | 24.0                 | 2.7                     | 27          | 2.5 - 4.9       | 3.5 - 7.0        | 0.045                               | 22.0                 | 5.0                     | 27          | 7.0 - 13.8 |  |
|              | 200             |                                     | 5.2                  | 1.2                     | < 15        | 1.2 - 2.3       | 1.7 - 3.3        |                                     | 30.0                 | 5.9                     | 30          | 7.0 - 14   |  |
|              | 100             |                                     | 5.6                  | 1.3                     | < 15        | 1.3 - 2.6       | 1.9 - 3.7        |                                     | 6.5                  | 2.7                     | < 15        | 3.3 - 6.6  |  |
|              | 120             |                                     | 8.0                  | 1.5                     | < 15        | 1.5 - 3.0       | 2.1 - 4.3        |                                     | 7.0                  | 2.8                     | < 15        | 3.7 - 7.4  |  |
|              | 135             |                                     | 9.6                  | 1.8                     | 16          | 1.7 - 3.4       | 2.4 - 4.8        |                                     | 10.0                 | 3.3                     | 16          | 4.3 - 8.5  |  |
| 10           | 150             | 0.110                               | 12.8                 | 1.9                     | 20          | 1.9 - 3.9       | 2.8 - 5.5        | 0.050                               | 12.0                 | 3.9                     | 19          | 4.8 - 9.6  |  |
|              | 175             |                                     | 17.6                 | 2.3                     | 24          | 2.2 - 4.4       | 3.1 - 6.3        |                                     | 16.0                 | 4.3                     | 23          | 5.5 - 11   |  |
|              | 200             |                                     | 23.2                 | 2.7                     | 27          | 2.6 - 5.3       | 3.8 - 7.5        |                                     | 22.0                 | 5.0                     | 27          | 6.3 - 12   |  |
|              | 100             |                                     | 4.8                  | 1.1                     | < 15        | 1.2 - 2.4       | 1.7 - 3.4        |                                     | 29.0                 | 5.9                     | 30          | 7.5 - 15   |  |
|              | 120             |                                     | 6.0                  | 1.2                     | < 15        | 1.4 - 2.8       | 2.0 - 4.0        |                                     | 6.0                  | 2.5                     | < 15        | 3.4 - 6.8  |  |
| 11           | 135             | 0.121                               | 8.0                  | 1.5                     | < 15        | 1.6 - 3.2       | 2.3 - 4.5        | 0.055                               | 7.5                  | 2.7                     | < 15        | 4.0 - 8.0  |  |
|              | 150             |                                     | 10.4                 | 1.8                     | 17          | 1.8 - 3.6       | 2.6 - 5.1        |                                     | 10.0                 | 3.4                     | 16          | 4.5 - 9.0  |  |
|              | 175             |                                     | 13.6                 | 1.9                     | 21          | 2.1 - 4.1       | 3.0 - 5.9        |                                     | 13.0                 | 3.9                     | 20          | 5.1 - 10   |  |
|              | 200             |                                     | 17.6                 | 2.3                     | 25          | 2.3 - 4.6       | 3.3 - 6.5        |                                     | 17.0                 | 4.4                     | 24          | 5.9 - 12   |  |
|              | 225             |                                     | 23.2                 | 2.6                     | 27          | 2.8 - 5.6       | 4.0 - 8.0        |                                     | 22.0                 | 5.0                     | 28          | 6.5 - 13   |  |
| 12           | 250             | 0.132                               | 30.4                 | 3.5                     | 29          | 1.4 - 2.8       | 2.0 - 4.0        | 0.060                               | 29.0                 | 5.8                     | 30          | 8.0 - 16   |  |

- Performances are based on a length of one meter.
- Throw distance measured at V<sub>t</sub> = 0.5 & 0.25 m/s respectively.
- Damper at full open position.



# ENGINEERING & PERFORMANCE DATA

Performances at Selected Values of Air Flow Rate (S = 20 mm Standard)

| No. of Slots | Flow Rate (L/s) | Vertical Discharge                  |                      |                         |             |                 |                  | Horizontal Discharge                |                      |                         |             |         |  |
|--------------|-----------------|-------------------------------------|----------------------|-------------------------|-------------|-----------------|------------------|-------------------------------------|----------------------|-------------------------|-------------|---------|--|
|              |                 | A <sub>eff.</sub> (m <sup>2</sup> ) | ΔP <sub>t</sub> (Pa) | V <sub>eff.</sub> (m/s) | Noise Level | Th. (m)         |                  | A <sub>eff.</sub> (m <sup>2</sup> ) | ΔP <sub>t</sub> (Pa) | V <sub>eff.</sub> (m/s) | Noise Level | Th. (m) |  |
|              |                 |                                     |                      |                         |             | w/o Wall Effect | with Wall Effect |                                     |                      |                         |             |         |  |
| 1            | 15              | 0.016                               | 3.6                  | 0.9                     | < 15        | 0.4-0.9         | 0.6-1.3          | 0.007                               | 4.5                  | 2.1                     | < 15        | 1.3-2.5 |  |
|              | 20              |                                     | 5.6                  | 1.2                     | < 15        | 0.6-1.1         | 0.8-1.6          |                                     | 7.0                  | 2.7                     | < 15        | 1.6-3.2 |  |
|              | 25              |                                     | 8.8                  | 1.5                     | < 15        | 0.7-1.4         | 1.0-2.0          |                                     | 11.0                 | 3.4                     | < 15        | 2.0-4.0 |  |
|              | 27              |                                     | 10.4                 | 1.6                     | < 15        | 0.8-1.5         | 1.1-2.2          |                                     | 13.0                 | 3.6                     | < 15        | 2.2-4.4 |  |
|              | 30              |                                     | 12.0                 | 1.8                     | < 15        | 0.9-1.7         | 1.2-2.4          |                                     | 15.0                 | 4.0                     | 16          | 2.4-4.8 |  |
|              | 35              |                                     | 16.8                 | 2.3                     | 17          | 1.0-2.0         | 1.4-2.8          |                                     | 21.0                 | 5.0                     | 20          | 2.8-5.6 |  |
| 2            | 40              | 0.032                               | 24.8                 | 2.7                     | 23          | 1.2-2.5         | 1.8-3.5          | 0.014                               | 31.0                 | 6.0                     | 26          | 3.5-7.0 |  |
|              | 30              |                                     | 3.4                  | 0.9                     | < 15        | 0.6-1.2         | 0.9-1.7          |                                     | 4.3                  | 2.0                     | < 15        | 1.7-3.4 |  |
|              | 35              |                                     | 4.8                  | 1.1                     | < 15        | 0.7-1.4         | 1.0-2.0          |                                     | 6.0                  | 2.5                     | < 15        | 2.0-4.0 |  |
|              | 40              |                                     | 6.4                  | 1.4                     | < 15        | 0.8-1.7         | 1.2-2.5          |                                     | 8.0                  | 3.0                     | < 15        | 2.5-4.9 |  |
|              | 45              |                                     | 8.0                  | 1.5                     | < 15        | 0.9-1.9         | 1.4-2.7          |                                     | 10.0                 | 3.4                     | < 15        | 2.7-5.4 |  |
|              | 50              |                                     | 9.6                  | 1.6                     | < 15        | 1.0-2.0         | 1.5-2.9          |                                     | 12.0                 | 3.6                     | 15          | 2.9-5.8 |  |
| 3            | 60              | 0.048                               | 13.6                 | 1.9                     | 17          | 1.2-2.5         | 1.8-3.5          | 0.021                               | 17.0                 | 4.3                     | 20          | 3.5-7.0 |  |
|              | 70              |                                     | 17.6                 | 2.3                     | 21          | 1.4-2.9         | 2.1-4.1          |                                     | 22.0                 | 5.0                     | 24          | 4.1-8.2 |  |
|              | 40              |                                     | 3.2                  | 0.9                     | < 15        | 0.7-1.4         | 1.0-2.0          |                                     | 4.0                  | 2.0                     | < 15        | 2.0-4.0 |  |
|              | 50              |                                     | 4.4                  | 1.1                     | < 15        | 0.8-1.7         | 1.2-2.4          |                                     | 5.5                  | 2.4                     | < 15        | 2.4-4.8 |  |
|              | 60              |                                     | 6.0                  | 1.3                     | < 15        | 1.0-2.0         | 1.4-2.9          |                                     | 7.5                  | 2.8                     | < 15        | 2.9-5.7 |  |
|              | 70              |                                     | 8.0                  | 1.5                     | < 15        | 1.2-2.3         | 1.7-3.4          |                                     | 10.0                 | 3.4                     | 15          | 3.4-6.7 |  |
| 4            | 80              | 0.064                               | 10.4                 | 1.8                     | 16          | 1.4-2.7         | 2.0-3.9          | 0.028                               | 13.0                 | 4.0                     | 19          | 3.4-7.8 |  |
|              | 90              |                                     | 13.6                 | 2.0                     | 19          | 1.5-3.1         | 2.2-4.4          |                                     | 17.0                 | 4.5                     | 22          | 4.4-8.8 |  |
|              | 100             |                                     | 16.8                 | 2.2                     | 22          | 1.7-3.4         | 2.4-4.8          |                                     | 21.0                 | 4.9                     | 25          | 4.8-9.6 |  |
|              | 50              |                                     | 2.8                  | 0.8                     | < 15        | 0.7-1.5         | 1.1-2.1          |                                     | 3.5                  | 1.8                     | < 15        | 2.1-4.2 |  |
|              | 60              |                                     | 3.6                  | 1.0                     | < 15        | 0.9-1.8         | 1.3-2.5          |                                     | 4.5                  | 2.2                     | < 15        | 2.5-5.0 |  |
|              | 70              |                                     | 4.8                  | 1.1                     | < 15        | 1.0-2.0         | 1.5-2.9          |                                     | 6.0                  | 2.5                     | < 15        | 2.9-5.8 |  |
| 5            | 80              | 0.080                               | 6.4                  | 1.4                     | < 15        | 1.2-2.3         | 1.7-3.4          | 0.035                               | 8.0                  | 3.0                     | < 15        | 3.4-6.7 |  |
|              | 100             |                                     | 9.6                  | 1.7                     | 15          | 1.5-2.9         | 2.1-4.2          |                                     | 12.0                 | 3.8                     | 18          | 4.2-8.4 |  |
|              | 120             |                                     | 12.8                 | 1.9                     | 20          | 1.7-3.4         | 2.4-4.8          |                                     | 16.0                 | 4.2                     | 23          | 4.8-9.6 |  |
|              | 135             |                                     | 16.0                 | 2.2                     | 25          | 1.9-3.9         | 2.8-5.5          |                                     | 20.0                 | 4.9                     | 28          | 5.5-11  |  |
|              | 70              |                                     | 3.2                  | 0.9                     | < 15        | 0.9-1.8         | 1.3-2.6          |                                     | 4.0                  | 2.0                     | < 15        | 2.6-5.2 |  |
|              | 80              |                                     | 4.4                  | 1.0                     | < 15        | 1.0-2.1         | 1.5-3.0          |                                     | 5.5                  | 2.3                     | < 15        | 3.0-5.9 |  |
| 6            | 90              | 0.096                               | 5.2                  | 1.1                     | < 15        | 1.2-2.3         | 1.7-3.3          | 0.042                               | 6.5                  | 2.5                     | < 15        | 3.3-6.6 |  |
|              | 100             |                                     | 6.0                  | 1.3                     | < 15        | 1.3-2.6         | 1.9-3.8          |                                     | 7.5                  | 2.9                     | < 15        | 3.8-7.5 |  |
|              | 120             |                                     | 8.0                  | 1.5                     | < 15        | 1.5-3.0         | 2.2-4.3          |                                     | 10.0                 | 3.3                     | 17          | 4.3-8.6 |  |
|              | 135             |                                     | 10.0                 | 1.7                     | 17          | 1.7-3.4         | 2.4-4.8          |                                     | 12.5                 | 3.7                     | 20          | 4.8-9.6 |  |
|              | 150             |                                     | 12.4                 | 1.8                     | 20          | 1.9-3.7         | 2.7-5.4          |                                     | 15.5                 | 4.1                     | 23          | 5.5-11  |  |
|              | 80              |                                     | 2.8                  | 0.9                     | < 15        | 0.9-1.9         | 1.4-2.7          |                                     | 3.5                  | 1.9                     | < 15        | 2.7-5.4 |  |
| 7            | 90              | 0.120                               | 3.6                  | 1.0                     | < 15        | 1.1-2.1         | 1.5-3.0          | 0.049                               | 4.5                  | 2.2                     | < 15        | 3.0-6.0 |  |
|              | 100             |                                     | 4.4                  | 1.1                     | < 15        | 1.2-2.4         | 1.7-3.4          |                                     | 5.5                  | 2.4                     | < 15        | 3.4-6.8 |  |
|              | 120             |                                     | 5.6                  | 1.3                     | < 15        | 1.4-2.8         | 2.0-4.0          |                                     | 7.0                  | 2.8                     | < 15        | 4.0-7.9 |  |
|              | 135             |                                     | 7.2                  | 1.4                     | < 15        | 1.6-3.2         | 2.3-4.5          |                                     | 9.0                  | 3.2                     | 15          | 4.5-9.0 |  |
|              | 150             |                                     | 8.8                  | 1.6                     | 16          | 1.7-3.4         | 2.5-4.9          |                                     | 11.0                 | 3.5                     | 19          | 4.9-9.8 |  |
|              | 175             |                                     | 12.0                 | 1.8                     | 20          | 2.0-4.0         | 2.9-5.8          |                                     | 15.0                 | 4.0                     | 23          | 6-11.5  |  |
| 8            | 90              | 0.128                               | 2.6                  | 0.8                     | < 15        | 1.0-2.0         | 1.4-2.8          | 0.056                               | 3.3                  | 1.8                     | < 15        | 2.8-5.6 |  |
|              | 100             |                                     | 3.2                  | 0.9                     | < 15        | 1.1-2.2         | 1.6-3.1          |                                     | 4.0                  | 2.0                     | < 15        | 3.1-6.2 |  |
|              | 120             |                                     | 4.4                  | 1.1                     | < 15        | 1.3-2.6         | 1.8-3.7          |                                     | 5.5                  | 2.4                     | < 15        | 3.7-7.3 |  |
|              | 135             |                                     | 5.2                  | 1.2                     | < 15        | 1.4-2.9         | 2.1-4.1          |                                     | 6.5                  | 2.6                     | < 15        | 4.1-8.2 |  |
|              | 150             |                                     | 6.4                  | 1.4                     | < 15        | 1.6-3.2         | 2.3-4.6          |                                     | 8.0                  | 3.0                     | 15          | 4.6-9.2 |  |
|              | 175             |                                     | 8.8                  | 1.6                     | 17          | 1.9-3.7         | 2.7-5.4          |                                     | 11.0                 | 3.5                     | 20          | 5-10.7  |  |
|              | 200             | 0.128                               | 12.0                 | 1.8                     | 21          | 2.2-4.4         | 3.1-6.3          | 0.056                               | 15.0                 | 4.0                     | 24          | 6-12.5  |  |
|              | 100             |                                     | 2.4                  | 0.8                     | < 15        | 1.0-2.0         | 1.5-2.9          |                                     | 3.0                  | 1.7                     | < 15        | 2.9-5.8 |  |
|              | 120             |                                     | 3.2                  | 0.9                     | < 15        | 1.2-2.3         | 1.7-3.4          |                                     | 4.0                  | 2.0                     | < 15        | 3.4-6.7 |  |
|              | 135             |                                     | 4.0                  | 1.0                     | < 15        | 1.3-2.6         | 1.9-3.7          |                                     | 5.0                  | 2.3                     | < 15        | 3.7-7.4 |  |
|              | 150             |                                     | 4.8                  | 1.1                     | < 15        | 1.5-2.9         | 2.1-4.2          |                                     | 6.0                  | 2.5                     | < 15        | 4.2-8.4 |  |
|              | 175             |                                     | 6.4                  | 1.4                     | < 15        | 1.7-3.4         | 2.5-4.9          |                                     | 8.0                  | 3.0                     | 16          | 4.9-9.8 |  |
|              | 200             |                                     | 9.2                  | 1.7                     | 18          | 2.0-4.0         | 2.9-5.8          |                                     | 11.5                 | 3.7                     | 21          | 6-11.5  |  |
|              | 225             |                                     | 10.8                 | 1.8                     | 21          | 2.3-4.6         | 3.3-6.5          |                                     | 13.5                 | 4.0                     | 24          | 6.5-13  |  |

- Performances are based on a length of one meter.
- Throw distance measured at V<sub>t</sub> = 0.5 & 0.25 m/s respectively.
- Damper at full open position.





# ENGINEERING & PERFORMANCE DATA

Performances at Selected Values of Air Flow Rate (S = 25 mm)

| No. of Slots | Flow Rate (L/s) | Vertical Discharge                  |                      |                         |             |                 |                  |                                     | Horizontal Discharge |                         |             |          |  |  |  |
|--------------|-----------------|-------------------------------------|----------------------|-------------------------|-------------|-----------------|------------------|-------------------------------------|----------------------|-------------------------|-------------|----------|--|--|--|
|              |                 | A <sub>eff.</sub> (m <sup>2</sup> ) | ΔP <sub>i</sub> (Pa) | V <sub>eff.</sub> (m/s) | Noise Level | Th. (m)         |                  | A <sub>eff.</sub> (m <sup>2</sup> ) | ΔP <sub>i</sub> (Pa) | V <sub>eff.</sub> (m/s) | Noise Level | Th. (m)  |  |  |  |
|              |                 |                                     |                      |                         |             | w/o Wall Effect | with Wall Effect |                                     |                      |                         |             |          |  |  |  |
| 1            | 15              | 0.021                               | 2.4                  | 0.8                     | <15         | 0.3-0.5         | 0.4-0.8          | 0.009                               | 3.0                  | 1.7                     | <15         | 0.8-1.5  |  |  |  |
|              | 20              |                                     | 3.6                  | 1.0                     | <15         | 0.5-1.0         | 0.7-1.5          |                                     | 4.5                  | 2.2                     | <15         | 1.5-2.9  |  |  |  |
|              | 25              |                                     | 5.2                  | 1.2                     | <15         | 0.6-1.3         | 0.9-1.8          |                                     | 6.5                  | 2.7                     | <15         | 1.8-3.6  |  |  |  |
|              | 27              |                                     | 6.0                  | 1.3                     | <15         | 0.7-1.3         | 1.0-1.9          |                                     | 7.5                  | 2.8                     | <15         | 1.9-3.8  |  |  |  |
|              | 30              |                                     | 7.2                  | 1.4                     | <15         | 0.7-1.5         | 1.1-2.1          |                                     | 9.0                  | 3.1                     | <15         | 2.1-4.2  |  |  |  |
|              | 35              |                                     | 10.4                 | 1.7                     | <15         | 0.9-1.8         | 1.3-2.5          |                                     | 13.0                 | 3.8                     | <15         | 2.5-5.0  |  |  |  |
| 2            | 40              | 0.042                               | 14.8                 | 2.0                     | 15          | 1.0-2.1         | 1.5-3.0          | 0.018                               | 18.5                 | 4.5                     | 18          | 3.0-5.9  |  |  |  |
|              | 30              |                                     | 2.0                  | 0.7                     | <15         | 0.5-1.1         | 0.8-1.5          |                                     | 2.5                  | 1.6                     | <15         | 1.5-3.0  |  |  |  |
|              | 35              |                                     | 2.8                  | 0.9                     | <15         | 0.6-1.3         | 0.9-1.8          |                                     | 3.5                  | 1.9                     | <15         | 1.8-3.6  |  |  |  |
|              | 40              |                                     | 4.0                  | 1.0                     | <15         | 0.7-1.5         | 1.1-2.1          |                                     | 5.0                  | 2.3                     | <15         | 2.1-4.2  |  |  |  |
|              | 45              |                                     | 4.8                  | 1.1                     | <15         | 0.8-1.6         | 1.2-2.3          |                                     | 6.0                  | 2.6                     | <15         | 2.3-4.6  |  |  |  |
|              | 50              |                                     | 5.6                  | 1.2                     | <15         | 0.9-1.8         | 1.3-2.6          |                                     | 7.0                  | 2.7                     | <15         | 2.6-5.2  |  |  |  |
| 3            | 60              | 0.063                               | 8.0                  | 1.5                     | <15         | 1.1-2.2         | 1.6-3.1          | 0.027                               | 10.0                 | 3.4                     | <15         | 3.1-6.2  |  |  |  |
|              | 70              |                                     | 10.4                 | 1.8                     | <15         | 1.3-2.6         | 1.8-3.7          |                                     | 13                   | 4.0                     | 17          | 3.7-7.3  |  |  |  |
|              | 40              |                                     | 1.4                  | 0.7                     | <15         | 0.6-1.2         | 0.9-1.7          |                                     | 1.8                  | 1.5                     | <15         | 1.7-3.4  |  |  |  |
|              | 50              |                                     | 2.6                  | 0.8                     | <15         | 0.7-1.5         | 1.1-2.1          |                                     | 3.3                  | 1.8                     | <15         | 2.1-4.2  |  |  |  |
|              | 60              |                                     | 3.8                  | 1.0                     | <15         | 0.9-1.8         | 1.3-2.5          |                                     | 4.8                  | 2.3                     | <15         | 2.5-5.0  |  |  |  |
|              | 70              |                                     | 4.8                  | 1.1                     | <15         | 1.0-2.0         | 1.5-2.9          |                                     | 6.0                  | 2.5                     | <15         | 2.9-5.8  |  |  |  |
| 4            | 80              | 0.084                               | 6.4                  | 1.3                     | <15         | 1.2-2.4         | 1.7-3.4          | 0.036                               | 8.0                  | 2.9                     | <15         | 3.4-6.8  |  |  |  |
|              | 90              |                                     | 7.6                  | 1.5                     | <15         | 1.3-2.6         | 1.9-3.7          |                                     | 9.5                  | 3.4                     | <15         | 3.7-7.4  |  |  |  |
|              | 100             |                                     | 9.6                  | 1.7                     | <15         | 1.5-3.0         | 2.1-4.3          |                                     | 12.0                 | 3.8                     | 17          | 4.3-8.5  |  |  |  |
|              | 50              |                                     | 1.2                  | 0.6                     | <15         | 0.6-1.3         | 0.9-1.8          |                                     | 1.5                  | 1.4                     | <15         | 1.8-3.6  |  |  |  |
|              | 60              |                                     | 2.0                  | 0.7                     | <15         | 0.8-1.5         | 1.1-2.2          |                                     | 2.5                  | 1.6                     | <15         | 2.2-4.4  |  |  |  |
|              | 70              |                                     | 2.8                  | 0.8                     | <15         | 0.9-1.8         | 1.3-2.5          |                                     | 3.5                  | 1.9                     | <15         | 2.5-5.0  |  |  |  |
| 5            | 80              | 0.105                               | 3.6                  | 0.9                     | <15         | 1.0-2.0         | 1.5-2.9          | 0.045                               | 4.5                  | 2.2                     | <15         | 2.9-5.8  |  |  |  |
|              | 100             |                                     | 5.2                  | 1.2                     | <15         | 1.3-2.6         | 1.9-3.7          |                                     | 6.5                  | 2.7                     | <15         | 3.7-7.4  |  |  |  |
|              | 120             |                                     | 6.6                  | 1.4                     | <15         | 1.5-3.0         | 2.1-4.3          |                                     | 8.3                  | 3.0                     | <15         | 4.3-8.5  |  |  |  |
|              | 135             |                                     | 10.0                 | 1.5                     | 16          | 1.8-3.5         | 2.5-5.0          |                                     | 12.5                 | 3.3                     | 19          | 5.0-10   |  |  |  |
|              | 70              |                                     | 1.6                  | 0.7                     | <15         | 0.8-1.6         | 1.2-2.3          |                                     | 2.0                  | 1.5                     | <15         | 2.3-4.6  |  |  |  |
|              | 80              |                                     | 2.4                  | 0.8                     | <15         | 0.9-1.9         | 1.3-2.7          |                                     | 3.0                  | 1.7                     | <15         | 2.7-5.3  |  |  |  |
| 6            | 90              | 0.126                               | 3.0                  | 0.9                     | <15         | 1.1-2.2         | 1.6-3.2          | 0.054                               | 3.8                  | 2.0                     | <15         | 3.2-6.4  |  |  |  |
|              | 100             |                                     | 3.8                  | 1.0                     | <15         | 1.3-2.6         | 1.8-3.7          |                                     | 4.8                  | 2.3                     | <15         | 3.7-7.3  |  |  |  |
|              | 120             |                                     | 4.8                  | 1.1                     | <15         | 1.5-3.0         | 2.1-4.3          |                                     | 6.0                  | 2.5                     | <15         | 4.3-8.5  |  |  |  |
|              | 135             |                                     | 6.4                  | 1.3                     | <15         | 1.6-3.3         | 2.3-4.7          |                                     | 8.0                  | 3.0                     | <15         | 4.7-9.3  |  |  |  |
|              | 150             |                                     | 7.2                  | 1.4                     | <15         | 1.7-3.4         | 2.4-4.9          |                                     | 9.0                  | 3.1                     | 17          | 4.9-9.7  |  |  |  |
|              | 80              |                                     | 1.2                  | 0.6                     | <15         | 0.8-1.7         | 1.2-2.4          |                                     | 1.5                  | 1.4                     | <15         | 2.4-4.8  |  |  |  |
| 7            | 90              | 0.163                               | 2.0                  | 0.7                     | <15         | 0.9-1.9         | 1.4-2.7          | 0.063                               | 2.5                  | 1.7                     | <15         | 2.7-5.4  |  |  |  |
|              | 100             |                                     | 2.6                  | 0.8                     | <15         | 1.0-2.0         | 1.5-2.9          |                                     | 3.3                  | 1.8                     | <15         | 2.9-5.8  |  |  |  |
|              | 120             |                                     | 3.4                  | 0.9                     | <15         | 1.2-2.4         | 1.7-3.4          |                                     | 4.3                  | 2.0                     | <15         | 3.4-6.8  |  |  |  |
|              | 135             |                                     | 4.8                  | 1.1                     | <15         | 1.5-2.9         | 2.1-4.2          |                                     | 6.0                  | 2.5                     | <15         | 4.2-8.3  |  |  |  |
|              | 150             |                                     | 5.2                  | 1.2                     | <15         | 1.5-3.0         | 2.2-4.4          |                                     | 6.5                  | 2.6                     | <15         | 4.4-8.7  |  |  |  |
|              | 175             |                                     | 6.4                  | 1.4                     | <15         | 1.8-3.6         | 2.6-5.2          |                                     | 8.0                  | 3.0                     | 16          | 5.0-10   |  |  |  |
| 8            | 90              | 0.168                               | 0.8                  | 0.6                     | <15         | 0.8-1.7         | 1.2-2.5          | 0.072                               | 1.0                  | 1.3                     | <15         | 2.5-4.9  |  |  |  |
|              | 100             |                                     | 1.6                  | 0.7                     | <15         | 0.9-1.9         | 1.4-2.7          |                                     | 2.0                  | 1.5                     | <15         | 2.7-5.4  |  |  |  |
|              | 120             |                                     | 2.4                  | 0.8                     | <15         | 1.1-2.2         | 1.6-3.1          |                                     | 3.0                  | 1.7                     | <15         | 3.1-6.2  |  |  |  |
|              | 135             |                                     | 2.8                  | 0.9                     | <15         | 1.3-2.6         | 1.9-3.8          |                                     | 3.5                  | 1.9                     | <15         | 3.8-7.5  |  |  |  |
|              | 150             |                                     | 4.0                  | 1.0                     | <15         | 1.4-2.8         | 2.0-4.0          |                                     | 5.0                  | 2.0                     | <15         | 4.0-8.0  |  |  |  |
|              | 175             |                                     | 5.0                  | 1.1                     | <15         | 1.5-3.0         | 2.1-4.3          |                                     | 6.3                  | 2.5                     | <15         | 4.3-8.5  |  |  |  |
| 8            | 200             | 0.168                               | 6.0                  | 1.4                     | <15         | 1.9-3.7         | 2.7-5.4          | 0.072                               | 7.5                  | 3.0                     | 15          | 5.0-10.7 |  |  |  |
|              | 100             |                                     | 0.6                  | 0.6                     | <15         | 0.9-1.8         | 1.3-2.5          |                                     | 0.8                  | 1.3                     | <15         | 2.5-5.0  |  |  |  |
|              | 120             |                                     | 1.6                  | 0.7                     | <15         | 1.0-2.0         | 1.5-2.9          |                                     | 2.0                  | 1.5                     | <15         | 2.9-5.8  |  |  |  |
|              | 135             |                                     | 2.0                  | 0.8                     | <15         | 1.2-2.4         | 1.7-3.4          |                                     | 2.5                  | 1.8                     | <15         | 3.4-6.8  |  |  |  |
|              | 150             |                                     | 3.0                  | 0.9                     | <15         | 1.3-2.7         | 1.9-3.8          |                                     | 3.8                  | 2.0                     | <15         | 3.8-7.6  |  |  |  |
|              | 175             |                                     | 4.0                  | 1.0                     | <15         | 1.5-3.0         | 2.2-4.4          |                                     | 5.0                  | 2.3                     | <15         | 4.4-8.7  |  |  |  |
| 8            | 200             | 0.168                               | 5.2                  | 1.2                     | <15         | 1.8-3.5         | 2.5-5.0          | 0.072                               | 6.5                  | 2.6                     | <15         | 5.0-10   |  |  |  |
|              | 225             |                                     | 6.0                  | 1.3                     | <15         | 1.9-3.9         | 2.8-5.5          |                                     | 7.5                  | 2.8                     | 16          | 5.5-11   |  |  |  |

- Performances are based on a length of one meter.
- Throw distance measured at Vt = 0.5 & 0.25 m/s respectively.
- Damper at full open position.



## ORDERING DATA

## • Available Surface Finishes For Linear Slot Diffusers :

- Natural / Matt Silver Anodized .
- Powder Coating ( Standard Colors are white RAL 9010/ 9016, other optional colors if required to be provided in RAL-No. only and charged extra ).
- Aluminium in Mill Finish.
- Other Special Finishes ( on request if available ).

## • Available Surface Finishes For Hit - and - Miss Damper &amp; Deflection Blades :

- Matt Black Powder Coating only as standard.

## • Ordering Specifications :

## Specify :

1. Linear Slot Diffuser Description (Supply, Return, Extract, Dummy,..... etc.).
2. No. of Slots.
3. Linear Slot Diffuser Length.
4. Quantity.
5. Linear Slot Diffuser Surface Finish.
6. RAL - No.(only mention if powder coating surface finish is required).
7. Curve (only mention if required in curved shape).
8. End Caps (to be mentioned as required).
9. Slot opening / width (only indicate if not standard, i.e. for 16 or 25 mm only).

## Example 1 :

| 1   | 2 | 3       | 4  | 5              | 6    | 7 | 8                     | 9 |
|-----|---|---------|----|----------------|------|---|-----------------------|---|
| SLD | 3 | 1000 mm | 30 | Powder Coating | 9016 | – | End Cap at both Sides | – |

## Example 2 :

| 1   | 2 | 3      | 4  | 5               | 6 | 7     | 8 | 9     |
|-----|---|--------|----|-----------------|---|-------|---|-------|
| RLD | 6 | 2.85 m | 15 | Silver Anodized | – | Curve | – | 25 mm |

## Example 3 :

| 1   | 2 | 3     | 4  | 5              | 6               | 7 | 8                   | 9     |
|-----|---|-------|----|----------------|-----------------|---|---------------------|-------|
| DLD | 4 | 120 " | 10 | Powder Coating | 1013 (Optional) | – | End Cap at one Side | 16 mm |