



CONTROL THE AIR YOU BREATHE

LINEAR AIR DIFFUSERS

technical

Sound Level - **Air Supply**

types **-DD, SD**

Europair Africa

a division of Performancair Products Africa (Pty) Ltd

tel +27 11 974 2425
fax +27 11 974 2443
web www.europair-africa.com
email: info@europair-africa.com

Cnr. Grader and Vuurslag
Spartan Ext. 3
Kempton Park
Johannesburg

LINEAR AIR DIFFUSERS

Sound Level - Supply Air

01

SOUND LEVEL- SUPPLY AIR



| Opening | | | | |
|--------------|--------|--------|--------|--------|
| Width mm | 944 | 944 | 944 | 944 |
| Height mm | 20 | 40 | 60 | 80 |
| Opening M3/s | 1-slot | 2-slot | 3-slot | 4-slot |
| 0.005 | - | - | - | - |
| 0.007 | - | - | - | - |
| 0.009 | 21 | - | - | - |
| 0.011 | 26 | - | - | - |
| 0.014 | 30 | - | - | - |
| 0.018 | 37 | 26 | - | - |
| 0.023 | - | 29 | - | - |
| 0.028 | - | 33 | 28 | - |
| 0.037 | - | 40 | 33 | 29 |
| 0.047 | - | - | 37 | 32 |
| 0.056 | - | - | 42 | 36 |
| 0.066 | - | - | - | 40 |
| 0.075 | - | - | - | 43 |

Please note: - Sound level given measured 1.5m away based on 1,2m length.

For NC sound ratings: Subtract 6 from readings above.

dba Corrections for various lengths:

300mm **minus 4**
600mm **minus 3**
900mm **minus 1**
1500mm **plus 1**
1800mm **plus 2**

HORIZONTAL DISCHARGE - THROW (METRES)

| Opening | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| Width mm | 944 | 944 | 944 | 944 | 944 | 944 | 944 | 944 |
| Height mm | 20 | 20 | 40 | 40 | 60 | 60 | 80 | 80 |

| Opening M3/s | 1-slot | | 2-slot | | 3-slot | | 4-slot | |
|--------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
| | Throw 100% open | Throw 50% open | Throw 100% open | Throw 50% open | Throw 100% open | Throw 50% open | Throw 100% open | Throw 50% open |
| 0.005 | 1.22 | 1.52 | 0.91 | 1.22 | - | - | - | - |
| 0.007 | 2.13 | 2.74 | 1.52 | 1.83 | - | - | - | - |
| 0.009 | 2.74 | 3.96 | 2.13 | 2.44 | 0.91 | 1.52 | - | - |
| 0.011 | 3.35 | 4.88 | 2.74 | 3.35 | 1.52 | 2.13 | 1.22 | 1.83 |
| 0.018 | 3.96 | 5.79 | 3.05 | 3.66 | 1.83 | 2.44 | 1.52 | 2.13 |
| 0.023 | 6.71 | 9.76 | 5.18 | 6.40 | 2.74 | 3.96 | 2.74 | 3.35 |
| 0.028 | - | - | 6.10 | 7.32 | 3.35 | 5.18 | 3.05 | 3.96 |
| 0.037 | - | - | 8.23 | 9.76 | 5.18 | 6.10 | 4.27 | 5.18 |
| 0.047 | - | - | - | - | 5.79 | 7.32 | 5.18 | 6.40 |
| 0.056 | - | - | - | - | 7.01 | 8.84 | 6.10 | 7.62 |
| 0.066 | - | - | - | - | - | - | 7.32 | 9.15 |
| 0.075 | - | - | - | - | - | - | 8.54 | 10.37 |

1. Throw based upon 1m length of diffuser.
2. For continuous lengths add 10% to above figures.
3. Above data for 1-way air pattern.
4. For 2-way air pattern consider each direction as a separate unit