

EDFLNA EDFLNA Linear slot diffusers with aluminium rotary deflectors



Description

Aluminium diffuser with adjustable rotary deflectors for optimal air throw control. Also available with sliding regulation damper.

Characteristics

Material: aluminium.
Finish: natural anodised.
Deflectors: aluminium.
Installation: duct or plenum.

Use

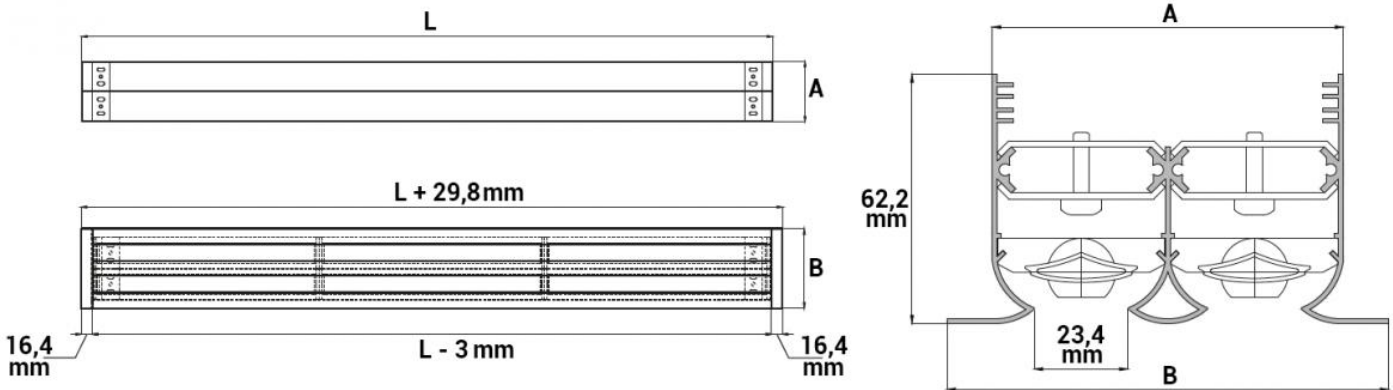
Diffuser suitable for both air supply and exhaust in large rooms. Its modularity allows for great freedom of design.

Models

EDFLNA-10 exhaust diffusers (without deflectors).
EDFLNA-20 supply diffusers with ALUMINIUM deflectors.
EDFLBNA-20 white RAL9010 supply diffusers with white ALUMINIUM deflectors.
EDFLNA-40 supply diffusers with ALUMINIUM deflectors and sliding damper.
EDFLBNA-40 white RAL9010 supply diffusers with white ALUMINIUM deflectors and sliding damper.
EDFLNA-50 supply diffusers with ALUMINIUM deflectors, equaliser and sliding damper.
EDFLBNA-50 white RAL9010 supply diffusers with white ALUMINIUM deflectors, equaliser and sliding damper.

Accessories

- galvanised plenum;
- insulated plenum;
- 90° corner connection;
- continuity kit.



Linear diffuser dimensions

Dimensions are expressed in mm

| Number of slots | L | A | B | number of fixing brackets |
|-----------------|------|-------|-------|---------------------------|
| 1 slot | 800 | 44,4 | 67 | 2 |
| 2 slots | | 87,6 | 110,2 | 2 |
| 3 slots | | 130,8 | 153,4 | 2 |
| 4 slots | | 174 | 196,6 | 2 |
| 1 slot | 1000 | 44,4 | 67 | 2 |
| 2 slots | | 87,6 | 110,2 | 2 |
| 3 slots | | 130,8 | 153,4 | 2 |
| 4 slots | | 174 | 196,6 | 2 |
| 1 slot | 1500 | 44,4 | 67 | 3 |
| 2 slots | | 87,6 | 110,2 | 3 |
| 3 slots | | 130,8 | 153,4 | 3 |
| 4 slots | | 174 | 196,6 | 3 |
| 1 slot | 2000 | 44,4 | 67 | 4 |
| 2 slots | | 87,6 | 110,2 | 4 |
| 3 slots | | 130,8 | 153,4 | 4 |
| 4 slots | | 174 | 196,6 | 4 |

Operating data

Data referring to 1 m long diffusers

Vk: effective speed (m/s)

m³/h: air flow rate

Pa: pressure drops in Pascal

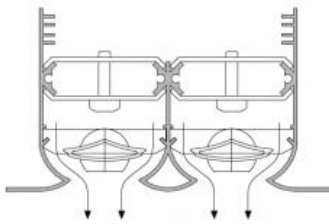
Lo(m): horizontal air throw in metres calculated on ceiling flush installation and terminal velocity 0.25 m/s

Lv(m): vertical air throw in metres calculated on ceiling flush installation and terminal velocity 0.25 m/s

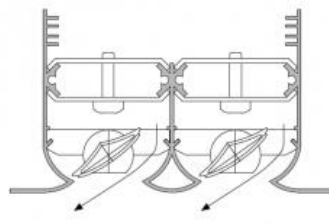
dB(A): noise level

| number of slots | effective cross-section m ² | air flow rate, air throw and pressure drop | | | | | | | |
|-----------------|--|--|-------|-------|-------|-------------------|-------|-------|-------|
| | | m ³ /h | Pa | Lo(m) | Lv(m) | m ³ /h | Pa | Lo(m) | Lv(m) |
| 1 slot | 0,0099 | m ³ /h | 72 | 107 | 143 | 179 | 215 | 251 | 287 |
| | | Pa | 4 | 9 | 15 | 24 | 35 | 47 | 61 |
| | | Lo(m) | 2,6 | 4,0 | 5,3 | 6,6 | 7,9 | 9,2 | 10,5 |
| | | Lv(m) | 1,8 | 2,8 | 3,7 | 4,6 | 5,5 | 6,5 | 7,4 |
| 2 slots | 0,0199 | m ³ /h | 143 | 215 | 287 | 358 | 430 | 501 | 573 |
| | | Pa | 5 | 10 | 18 | 29 | 41 | 56 | 74 |
| | | Lo(m) | 3,8 | 5,6 | 7,5 | 9,4 | 11,3 | 13,2 | 15,1 |
| | | Lv(m) | 2,6 | 4,0 | 5,3 | 6,6 | 7,9 | 9,2 | 10,5 |
| 3 slots | 0,0298 | m ³ /h | 215 | 322 | 430 | 537 | 645 | 752 | 860 |
| | | Pa | 6 | 14 | 26 | 40 | 58 | 79 | 103 |
| | | Lo(m) | 4,4 | 6,7 | 8,9 | 11,1 | 13,3 | 15,6 | 17,8 |
| | | Lv(m) | 3,1 | 4,7 | 6,2 | 7,8 | 9,3 | 10,9 | 12,4 |
| 4 slots | 0,0398 | m ³ /h | 287 | 430 | 573 | 716 | 860 | 1003 | 1146 |
| | | Pa | 10 | 23 | 41 | 64 | 92 | 125 | 163 |
| | | Lo(m) | 5,0 | 7,6 | 10,1 | 12,6 | 15,1 | 17,6 | 20,2 |
| | | Lv(m) | 3,5 | 5,3 | 7,1 | 8,8 | 10,6 | 12,4 | 14,1 |
| Vk | | m/s | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| noise level | | dB(A) | 25-30 | 30-35 | 35-40 | 40-45 | 42-48 | 45-50 | 50-55 |

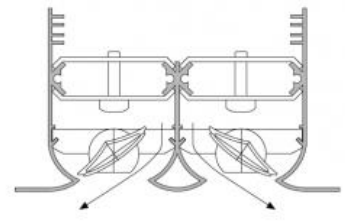
Air throw characteristics



LANCIO VERTICALE
VERTICAL THROW



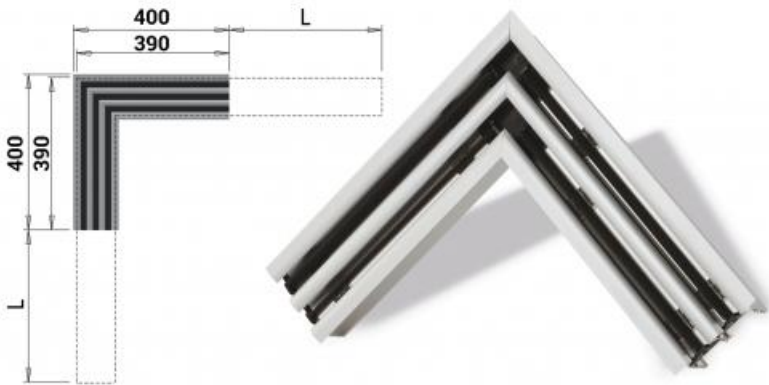
LANCIO ORIZZONTALE 1 DIREZIONE
HORIZONTAL THROW ONE DIRECTION



LANCIO ORIZZONTALE 2 DIREZIONI
TWO DIRECTION HORIZONTAL THROW

Corner connection

Aesthetic connecting element between the two linear diffuser lines with a 90° angle and 400 mm length on each side. All measurements are expressed in mm.

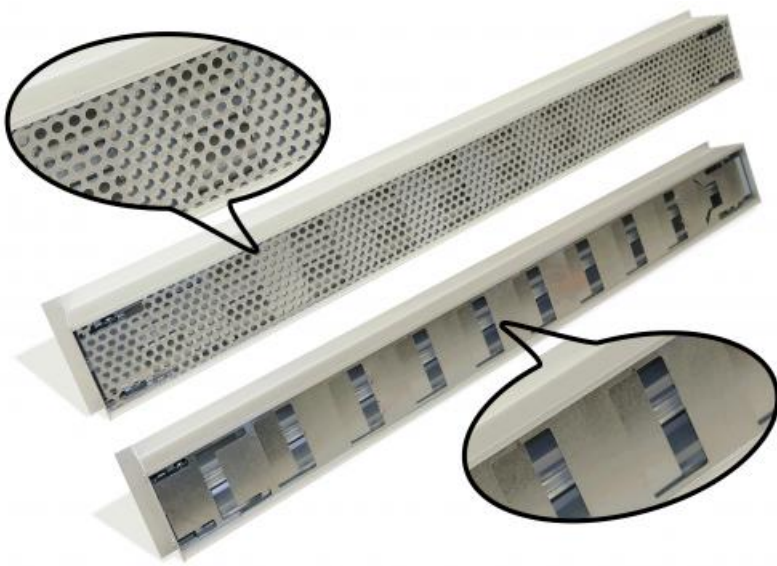


Continuity kit

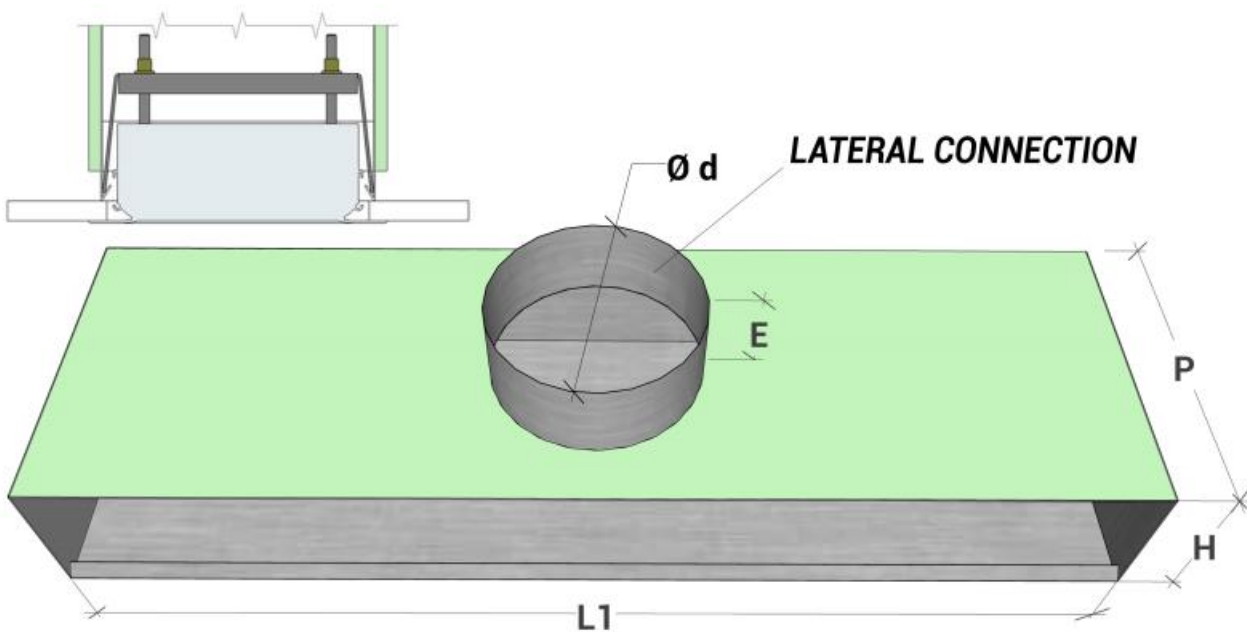
The continuity kit is an accessory required to create continuous lines of linear diffusers longer than 2 metres. It is made up of two junction clamps that allow for the alignment and connection of two components of the line.



Equaliser mesh and sliding damper



Plenum dimensions and fixing bracket system



all dimensions are expressed in mm

| Number of slots | L | Plenum dimensions | | | | | |
|-----------------|------|-------------------|--------------------|-----|-----|-----|----|
| | | L1 | No. of connections | Ø d | P | H | E |
| 1 slot | 800 | 815 | 1 | 123 | 200 | 59 | 80 |
| | 1000 | 1015 | 1 | | | | |
| | 1500 | 1515 | 2 | | | | |
| | 2000 | 2015 | 2 | | | | |
| 2 slots | 800 | 815 | 1 | 148 | 240 | 102 | 80 |
| | 1000 | 1015 | 1 | | | | |
| | 1500 | 1515 | 2 | | | | |
| | 2000 | 2015 | 2 | | | | |
| 3 slots | 800 | 815 | 1 | 148 | 240 | 145 | 80 |
| | 1000 | 1015 | 1 | | | | |
| | 1500 | 1515 | 2 | | | | |
| | 2000 | 2015 | 2 | | | | |
| 4 slots | 800 | 815 | 1 | 198 | 285 | 189 | 80 |
| | 1000 | 1015 | 1 | | | | |
| | 1500 | 1515 | 2 | | | | |
| | 2000 | 2015 | 2 | | | | |

Price list

For dimensions other than those indicated: 15% increase compared to the bigger dimension indicated in the table

| | model | EDFLNA-10 | EDFLNA-20 | EDFLNA-40 | EDFLNA-50 | PLENUM | Insulated PLENUM |
|---------|-------|-----------|-----------|-----------|-----------|--------|------------------|
| | | euro | euro | euro | euro | euro | euro |
| 1 slot | 800 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| 2 slots | 800 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| 3 slots | 800 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| 4 slots | 800 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |

White painted version price list

| | model | EDFLBNA-10 | EDFLBNA-20 | EDFLBNA-40 | EDFLBNA-50 | PLENUM | Insulated PLENUM |
|---------|-------|------------|------------|------------|------------|--------|------------------|
| | | euro | euro | euro | euro | euro | euro |
| 1 slot | 800 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| 2 slots | 800 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| 3 slots | 800 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| 4 slots | 800 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |

| fixing bracket | euro |
|----------------|------|
| 1 slot | ▼ |
| 2 slots | ▼ |
| 3 slots | ▼ |
| 4 slots | ▼ |

Accessory price list

| Angular | EDFLNA with deflectors | | EDFLBNA with deflectors | |
|----------------|------------------------|--|-------------------------|--|
| | euro | | euro | |
| 1 slot | ▼ | | ▼ | |
| 2 slots | ▼ | | ▼ | |
| 3 slots | ▼ | | ▼ | |
| 4 slots | ▼ | | ▼ | |
| continuity kit | ▼ | | ▼ | |