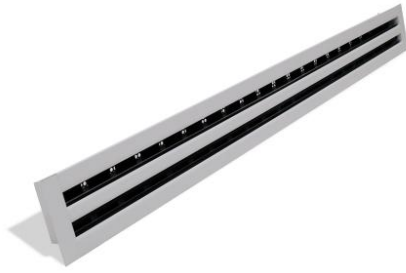


EDFL EDFLB Linear slot diffusers with deflectors



Description

Linear slot diffuser with aerodynamic aluminium profile and adjustable deflectors for optimal air throw control. Also available with sliding regulation damper.

Characteristics

Material: aluminium.
EDFL finish: natural anodised aluminium frame and black painted aluminium deflectors.
EDFLB finish: white RAL 9016 painted aluminium frame and deflector.

Slots: from 1 to 4 in standard version, 5 or 6 on request.

Installation: directly on duct or by means of a plenum with a fixing bracket system.

Possible dimensions in one piece:
- minimum length 300 mm;
- maximum length 2000 mm.

Use

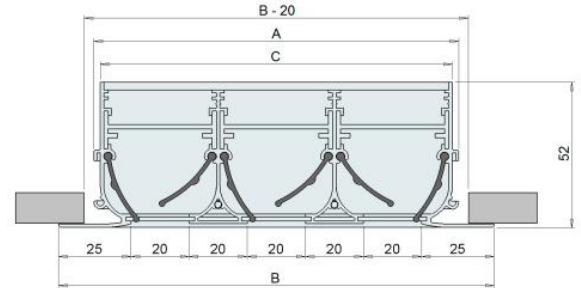
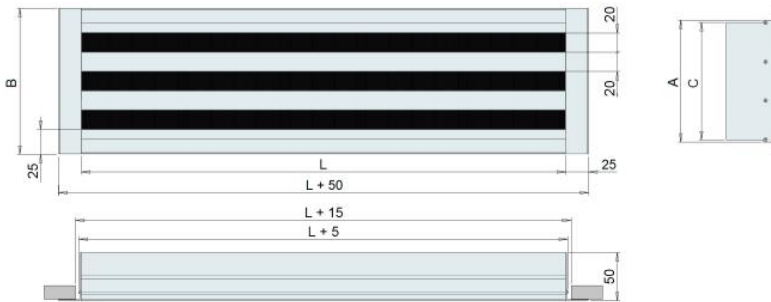
Diffuser suitable for both air supply and exhaust in large rooms. Its modularity allows for great freedom of design.

Models

EDFL-10 return diffusers (without deflectors).
EDFL-20 supply diffusers with black deflectors.
EDFLB-20 white RAL9016 supply diffusers with white deflectors.
EDFL-30 return diffusers with damper.
EDFL-40 supply diffusers with black deflectors and sliding damper.
EDFLB-40 white RAL9016 supply diffusers with white deflectors and sliding damper.
EDFL-50 supply diffusers with black deflectors, equaliser and sliding damper.
EDFLB-50 white RAL9016 supply diffusers with white deflectors, equaliser and sliding damper.

Accessories

- galvanised plenum box;
- insulated plenum box;
- 90° corner connection;
- mounting bridges;
- continues line kit.



Linear diffuser dimensions

All dimensions are expressed in mm

| Number of slots | L | A | B | C | number of fixing brackets |
|-----------------|------|-----|-----|-----|---------------------------|
| 1 slot | 600 | 46 | 70 | 41 | 2 |
| | 800 | | | | 2 |
| | 1000 | | | | 2 |
| | 1200 | | | | 2 |
| | 1500 | | | | 2 |
| | 2000 | | | | 2 |
| 2 slots | 600 | 86 | 110 | 81 | 2 |
| | 800 | | | | 2 |
| | 1000 | | | | 2 |
| | 1200 | | | | 2 |
| | 1500 | | | | 2 |
| | 2000 | | | | 2 |
| 3 slots | 600 | 126 | 150 | 121 | 2 |
| | 800 | | | | 2 |
| | 1000 | | | | 2 |
| | 1200 | | | | 2 |
| | 1500 | | | | 2 |
| | 2000 | | | | 3 |
| 4 slots | 600 | 166 | 190 | 161 | 2 |
| | 800 | | | | 2 |
| | 1000 | | | | 2 |
| | 1200 | | | | 2 |
| | 1500 | | | | 2 |
| | 2000 | | | | 3 |

Operating data

Data referring to 1m long diffusers, with a terminal throw velocity $V_t=0.25$ m/s and with a temperature differential of 10/12°C, in ceiling installations and with lateral air throw.

Data referring to diffusers without damper or with open sliding damper.

Data referring to diffusers with deflectors in the working position with a 50% reduction of the air passage surface.

The position of the deflectors reduces the effective cross-section. When the deflectors are fully open or when the diffuser is used for air exhaust, the flow rates expressed in m³/h indicated in the table may be higher.

Vk: effective speed (m/s)

m³/h: air flow rate

Pa: pressure drops in Pascal

L(m): air throw in metres

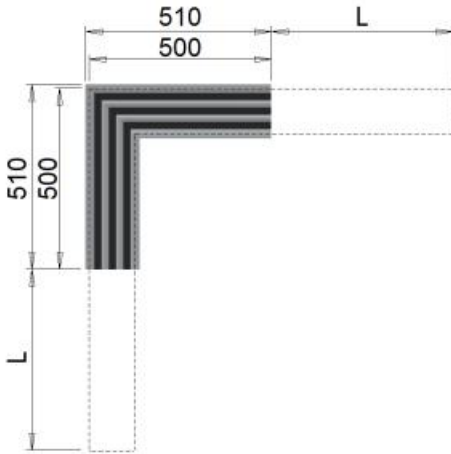
dB(A): noise level

| Number of slots | effective cross-section m ² | air flow rate and throw | | | | | | |
|-----------------|--|-------------------------|-----|-----|-----|-----|-----|------|
| | | m ³ /h | 70 | 105 | 140 | 175 | 210 | 245 |
| 1 slot | 0,0097 | L(m) | 1.8 | 2.7 | 3.6 | 4.5 | 5.4 | 6.3 |
| | | m ³ /h | 140 | 210 | 280 | 350 | 420 | 490 |
| 2 slots | 0,0194 | L(m) | 2.5 | 3.8 | 5 | 6.3 | 7.5 | 8.8 |
| | | m ³ /h | 210 | 315 | 420 | 525 | 630 | 735 |
| 3 slots | 0,0291 | L(m) | 3 | 4.7 | 6 | 7.8 | 9.3 | 11 |
| | | m ³ /h | 280 | 420 | 560 | 700 | 840 | 980 |
| 4 slots | 0,0388 | L(m) | 3.5 | 5.4 | 7 | 9 | 11 | 12.6 |
| | | m ³ /h | 280 | 420 | 560 | 700 | 840 | 980 |
| Vk | | m/s | 2 | 3 | 4 | 5 | 6 | 7 |
| pressure drops | | Pa | 8 | 15 | 26 | 40 | 55 | 70 |
| noise level | | dB(A) | <20 | 22 | 32 | 37 | 44 | 48 |

Corner connection

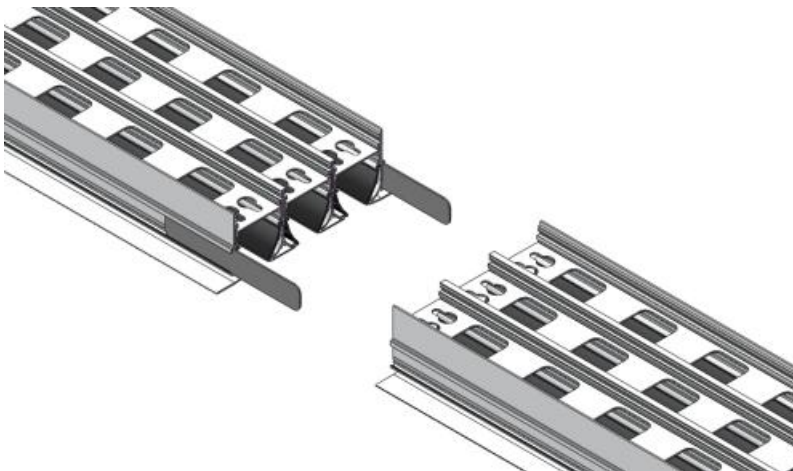
Aesthetic connecting element between the two linear diffuser lines with a 90° angle and 500 mm length on each side. It has no ventilation features.

All measurements are expressed in mm.

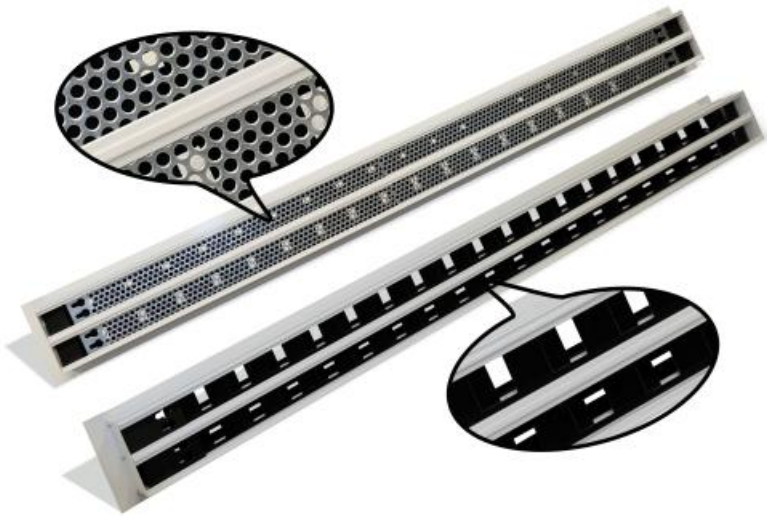


Continuity kit

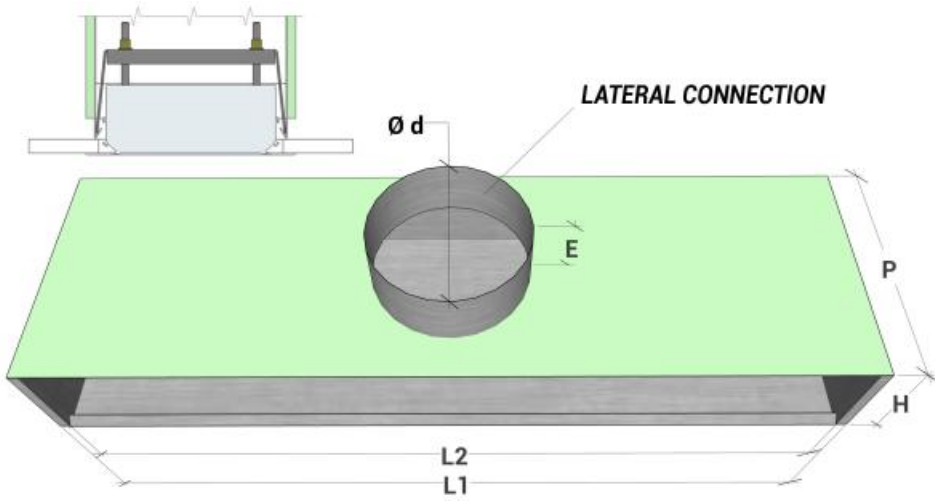
The continuity kit is an accessory required to create continuous lines of linear diffusers longer than 2 metres. It is made up of two junction plates that allow for the alignment and connection of two components of the line.



Equipping mesh and sliding damper:



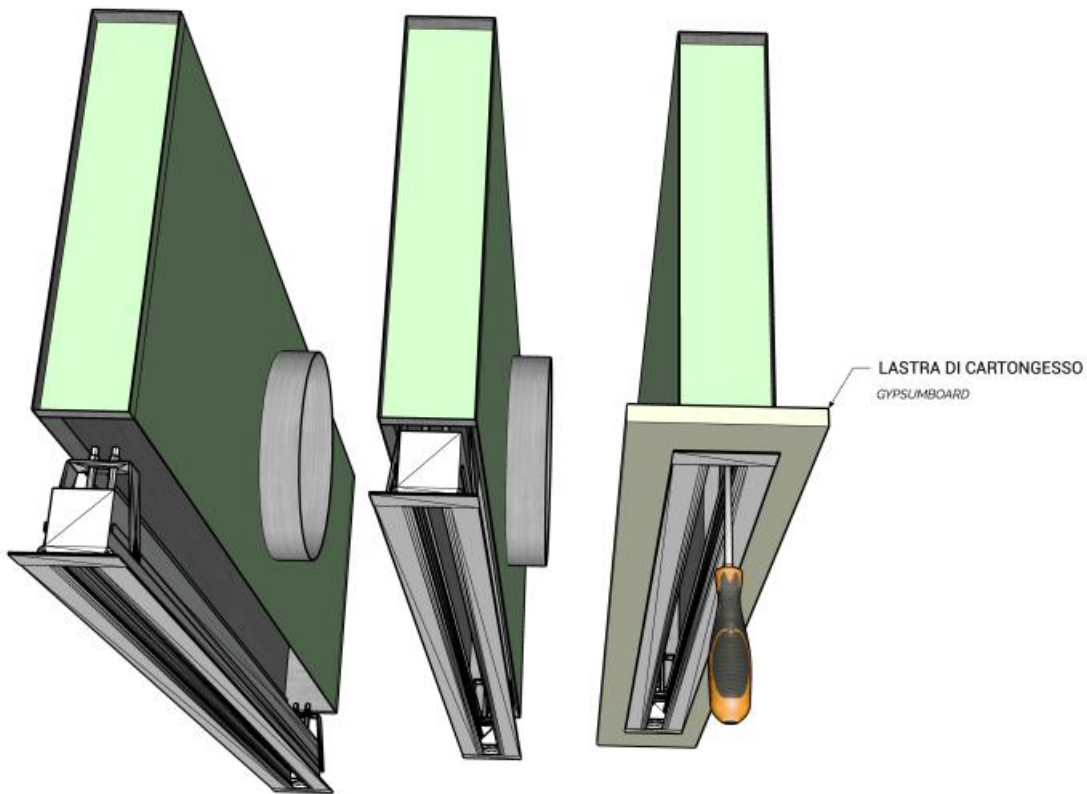
Plenum dimensions and fixing bracket system



All dimensions are expressed in mm

| Number of slots | L | Plenum dimensions | | | | | | |
|-----------------|------|-------------------|------|--------------------|-----|-----|-----|----|
| | | L1 | L2 | No. of connections | Ø d | P | H | E |
| 1 Slot | 600 | 645 | 615 | 1 | 98 | 300 | 58 | 80 |
| | 800 | 845 | 815 | 1 | | | | |
| | 1000 | 1045 | 1015 | 1 | | | | |
| | 1200 | 1245 | 1215 | 2 | | | | |
| | 1500 | 1545 | 1515 | 2 | | | | |
| | 2000 | 2045 | 2015 | 2 | | | | |
| 2 Slots | 600 | 645 | 615 | 1 | 148 | 300 | 98 | 80 |
| | 800 | 845 | 815 | 1 | | | | |
| | 1000 | 1045 | 1015 | 1 | | | | |
| | 1200 | 1245 | 1215 | 2 | | | | |
| | 1500 | 1545 | 1515 | 2 | | | | |
| | 2000 | 2045 | 2015 | 2 | | | | |
| 3 Slots | 600 | 645 | 615 | 1 | 198 | 300 | 138 | 80 |
| | 800 | 845 | 815 | 1 | | | | |
| | 1000 | 1045 | 1015 | 1 | | | | |
| | 1200 | 1245 | 1215 | 2 | | | | |
| | 1500 | 1545 | 1515 | 2 | | | | |
| | 2000 | 2045 | 2015 | 2 | | | | |
| 4 Slots | 600 | 645 | 615 | 1 | 198 | 300 | 178 | 80 |
| | 800 | 845 | 815 | 1 | | | | |
| | 1000 | 1045 | 1015 | 1 | | | | |
| | 1200 | 1245 | 1215 | 2 | | | | |
| | 1500 | 1545 | 1515 | 2 | | | | |
| | 2000 | 2045 | 2015 | 2 | | | | |

Installation



Price list

Natural anodised aluminium frame and black painted aluminium deflectors.

| | length | EDFL-10 | EDFL-20 | EDFL-30 | EDFL-40 | EDFL-50 | PLENUM | INSULATED PLENUM |
|---------|--------|---------|---------|---------|---------|---------|--------|------------------|
| | | euro | euro | euro | euro | euro | euro | euro |
| 1 slot | 600 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 800 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1200 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1500 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 2000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 slots | 600 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 800 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1200 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1500 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 2000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 slots | 600 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 800 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1200 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1500 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 2000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 slots | 600 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 800 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1200 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1500 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 2000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Ral 9010 painted with black deflectors + 20%

Price list

White version with white deflectors

| | length | EDFLB-20 | EDFLB-40 | EDFLB-50 | PLENUM | INSULATED PLENUM |
|---------|--------|----------|----------|----------|--------|------------------|
| | | euro | euro | euro | euro | euro |
| 1 slot | 600 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 800 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1200 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ |
| 2 slots | 600 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 800 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1200 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ |
| 3 slots | 600 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 800 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1200 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ |
| 4 slots | 600 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 800 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1000 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1200 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 1500 | ▼ | ▼ | ▼ | ▼ | ▼ |
| | 2000 | ▼ | ▼ | ▼ | ▼ | ▼ |

Price list

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

Accessory price list

| Angular without deflectors | EDFL | EDFLB |
|----------------------------|------|-------|
| | euro | euro |
| 1 feritoia | ▼ | ▼ |
| 2 feritoie | ▼ | ▼ |
| 3 feritoie | ▼ | ▼ |
| 4 feritoie | ▼ | ▼ |
| continuity kit | ▼ | ▼ |