

EDLS-EDLSB Hidden multi-slot linear diffusers



Description

Hidden linear diffuser with single or multi slots, width 20 or 30 mm, with aluminium aerodynamic profile and adjustable deflectors for optimal air throw control. Also available with equalizer and sliding damper.

Features

Material: aluminium.

EDLS finish: RAL9005 black painted aluminium.

EDLSB finish: RAL9016 white painted aluminium.

Slots number: from 1 to 3; Slots width: 20 or 30 mm.

Installation: by plenum box with mounting bridge, ceiling finishing with anti-crack tape on the frame and subsequent plaster skimming.

Possible dimensions in one piece:

- Minimum length 300 mm;
- Maximum length 2000 mm.

Continues lines possible with continues line kit.

Use

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

Models

- EDLS10-FA - EDLSB10-FA hidden linear diffusers 20 mm slot without deflectors (exhaust).
- EDLS20-FA - EDLSB20-FA hidden linear diffusers 20 mm slot with deflectors (supply).
- EDLS30-FA - EDLSB30-FA hidden linear diffusers 20 mm slot without deflectors, with sliding damper (exhaust).
- EDLS40-FA - EDLSB40-FA hidden linear diffusers 20 mm slot with deflectors and sliding damper (supply).
- EDLS10-FB - EDLSB10-FB hidden linear diffusers 30 mm slot without deflectors (exhaust).
- EDLS20-FB - EDLSB20-FB hidden linear diffusers 30 mm slot with deflectors (supply).
- EDLS30-FB - EDLSB30-FB hidden linear diffusers 30 mm slot without deflectors, with sliding damper (exhaust).
- EDLS40-FB - EDLSB40-FB hidden linear diffusers 30 mm slot with deflectors and sliding damper (supply).

Accessories

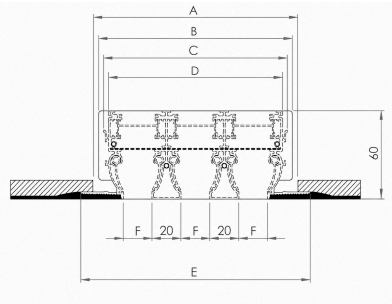
- EPZ-EDL - Galvanized steel plenum box;
- EPI-EDL - Insulated plenum box;
- Mounting bridge;
- Continues line kit.

On request

- Possibility of installation in continues line with continues line kit.
- Plenum box with ovalised rear connection.

Technical Drawing	EDLS-FA - EDLS-FB	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Nr. of Mounting Bridges
	20 mm Slot Version EDLS-FA EDLSB-FA	800	60	55	48	41	80	20	2
		1000							2
		1200							2
		1500							2
		2000							2
	30 mm Slot Version EDLS-FB EDLSB-FB	800	70	65	58	51	51	30	2
		1000							2
		1200							2
		1500							2
		2000							2

Technical Drawing	EDLS-FA - EDLS-FB - 2F	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Nr. of Mounting Bridges
The technical drawing shows a side view of the assembly. Dimensions are labeled as follows: A: Total width of the top section. B: Width of the upper part of the top section. C: Width of the middle section. D: Width of the lower part of the middle section. E: Total width of the base. F: Distance from the centerline to the edge of the base. L: Length of the assembly. The central part shows two vertical rods connected by a horizontal bar, with various fasteners and washers indicated.	20 mm Slot Version	800	100	95	88	81	120	20	2
		1000							2
		1200							2
		1500							2
		2000							2
	30 mm Slot Version	800	120	115	108	101	140	30	2
		1000							2
		1200							2
		1500							2
		2000							2

Technical Drawing	EDLS-FA - EDLS-FB - 3F	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Nr. of Mounting Bridges
	20 mm Slot Version EDLS-FA EDLSB-FA	800	140	135	128	121	160	20	2
		1000							2
		1200							2
		1500							2
		2000							3
	30 mm Slot Version EDLS-FB EDLSB-FB	800	170	165	158	151	190	30	2
		1000							2
		1200							2
		1500							2
		2000							3

Operating Data

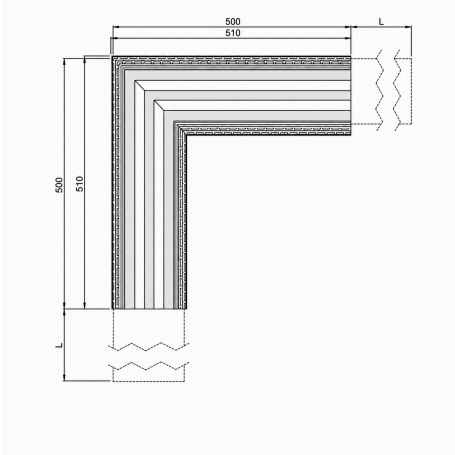
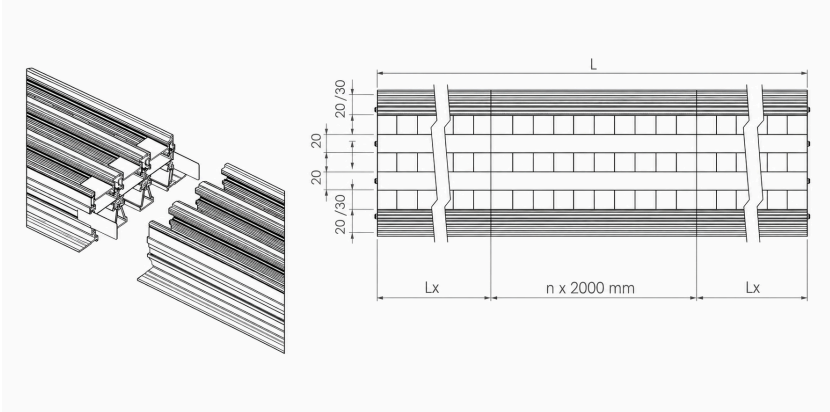
Data refers to 1 m long diffusers, with a terminal velocity $V_t = 0.25$ m/s, flush-mounted on the ceiling and with horizontal air throw (Coanda effect). Values refer to the diffuser without damper or with sliding damper fully open. Values refer to the diffuser with deflectors set in operating position, with 50% free area reduction. The deflector position reduces the effective area. With deflectors fully open, or when the diffuser is used for return air, the airflow rates (m³/h) shown in the table may vary.

- V_k : effective speed (m/s).
- m³/h: flow rate.
- Pa: pressure drops in Pascal.
- L(m): air throw in metres calculated on ceiling installation, terminal velocity 0.25 m/s.
- dB(A): noise level.

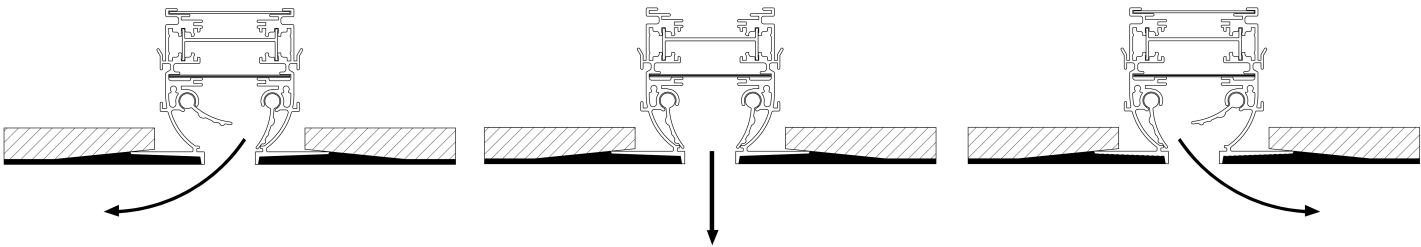
Slot	Dimensione Slot	Effective Cross-Section (m2)	Air-volume and Air-throw						
1 Slot	Slot da 20 mm	0,0097	m³/h	70	105	140	175	210	245
			L(m)	1.8	2.7	3.6	4.5	5.4	6.3
	Slot da 30 mm	0,0146	m³/h	105	158	210	262	315	368
			L(m)	1,6	2,5	3,4	4,2	5	5,8
		Noise Level	dB(A)	<20	22	32	37	44	48
2 Slot	Slot da 20 mm	0,0194	m³/h	140	210	280	350	420	490
			L(m)	2,6	3,9	5,1	6,4	7,7	9,0
	Slot da 30 mm	0,0292	m³/h	210	316	420	524	630	736
			L(m)	2,3	3,6	4,9	6,0	7,1	8,3
		Noise Level	dB(A)	<20	24	34	39	46	50
3 Slot	Slot da 20 mm	0,0291	m³/h	210	315	420	525	630	735
			L(m)	3,9	5,8	7,7	9,6	11,6	13,5
	Slot da 30 mm	0,0438	m³/h	315	474	630	786	945	1104
			L(m)	3,4	5,4	7,3	9,0	10,7	12,4
		Noise Level	dB(A)	<20	26	36	41	48	52
Vk			m/s	2	3	4	5	6	7
Pressure Drop			Pa	7	15	26	41	59	80

Accessories

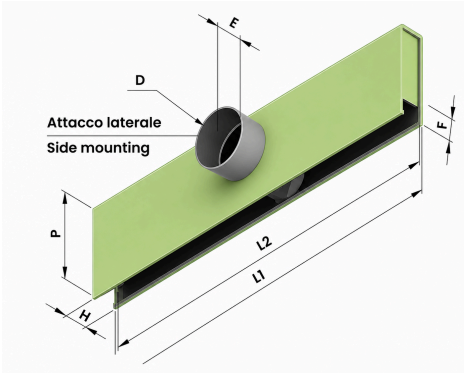
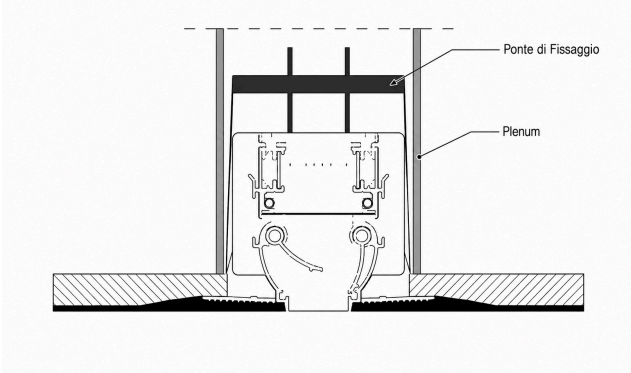
All measurements are expressed in mm.

Angolo di Collegamento	Kit di Continuità
Aesthetic corner element designed to provide a seamless connection between two linear diffuser runs at a 90° angle, with a 500 mm length on each side. It has no air distribution or ventilation function.	The continuity kit is an accessory required to create continuous linear diffuser runs longer than 2 meters. It consists of two joining plates that ensure the alignment and secure connection of two adjacent diffuser sections, providing a continuous and uniform installation.
	

Air Throw Characteristics

Esempi di Configurazioni di Lancio dell'Aria
L'immagine illustra un esempio delle diverse configurazioni di lancio possibili di un diffusore lineare a feritoia, ottenibili mediante la regolazione dei deflettori interni: lancio orizzontale monodirezionale, lancio verticale e lancio inclinato/divergente. La possibilità di orientare il flusso d'aria consente di adattare la diffusione alle diverse esigenze impiantistiche e ambientali.


Plenum Box Dimensions and Mounting Bridge System

Technical Drawing		Installation System with Plenum and Mounting Bridge
EPI-EDL - Plenum for Linear Slot Diffuser with Side Inlet		Installation diagram of the linear slot diffuser complete with plenum and mounting bridge. The mounting bridge ensures proper support and accurate positioning of the diffuser within the suspended ceiling.
		

1 Slot	L	Plenum Box Dimensions							
		L1	L2	Nr. Lat. Connections	Ø d	P	H	E	F
Slot da 20 mm	800	800	770	1	145	240	65	80	49
	1000	1000	970	1					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					
Slot da 30 mm	800	800	770	1	145	240	75	80	49
	1000	1000	970	1					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					

2 Slot	L	Plenum Box Dimensions							
		L1	L2	Nr. Lat. Connections	Ø d	P	H	E	F
Slot da 20 mm	800	800	770	2	145	300	105	80	49
	1000	1000	970	2					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					
Slot da 30 mm	800	800	770	2	198	300	125	80	49
	1000	1000	970	2					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					

3 Slot	L	Plenum Box Dimensions							
		L1	L2	Nr. Lat. Connections	Ø d	P	H	E	F
Slot da 20 mm	800	800	770	2	198	300	145	80	49
	1000	1000	970	2					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					
Slot da 30 mm	800	800	770	2	198	300	165	80	49
	1000	1000	970	2					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					

EDLS-FA Price List – 1 Slot, 20 mm – RAL 9005

EDLS-FA	Lenght (m)	EDLS10-FA	EDLS20-FA	EDLS30-FA	EDLS40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
1 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 20 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FA Price List – 2 Slots, 20 mm – RAL 9005

EDLS-FA	Lenght (m)	EDLS10-FA	EDLS20-FA	EDLS30-FA	EDLS40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
2 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 20 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	- 0	-	-	-
	1500	-	-	- 0	-	-	-
	2000	-	-	- 0	-	-	-

EDLS-FA Price List – 3 Slots, 20 mm – RAL 9005

EDLS-FA	Lenght (m)	EDLS10-FA	EDLS20-FA	EDLS30-FA	EDLS40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
3 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 20 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FB Price List – 1 Slot, 30 mm – RAL 9005

EDLS-FB	Lenght (m)	EDLS10-FB	EDLS20-FB	EDLS30-FB	EDLS40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
1 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 30 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FB Price List – 2 Slots, 30 mm – RAL 9005

EDLS-FB	Lenght (m)	EDLS10-FB	EDLS20-FB	EDLS30-FB	EDLS40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
2 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 30 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FB Price List – 3 Slots, 30 mm – RAL 9005

EDLS-FB	Lenght (m)	EDLS10-FB	EDLS20-FB	EDLS30-FB	EDLS40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
3 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 30 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FA Price List – 1 Slot, 20 mm – RAL 9016

EDLSB-FA	Lenght (m)	EDLSB10-FA	EDLSB20-FA	EDLSB30-FA	EDLSB40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
1 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 20 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FA Price List – 2 Slots, 20 mm – RAL 9016

EDLSB-FA	Lenght (m)	EDLSB10-FA	EDLSB20-FA	EDLSB30-FA	EDLSB40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
2 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 20 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FA Price List – 3 Slots, 20 mm – RAL 9016

EDLSB-FA	Lenght (m)	EDLSB10-FA	EDLSB20-FA	EDLSB30-FA	EDLSB40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
3 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 20 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FB Price List – 1 Slot, 30 mm – RAL 9016

EDLSB-FB	Lenght (m)	EDLSB10-FB	EDLSB20-FB	EDLSB30-FB	EDLSB40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
1 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 30 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FB Price List – 2 Slots, 30 mm – RAL 9016

EDLSB-FB	Lenght (m)	EDLSB10-FB	EDLSB20-FB	EDLSB30-FB	EDLSB40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
2 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot da 30 mm	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

EDLS-FB Price List – 3 Slots, 30 mm – RAL 9016

EDLSB-FB	Lenght (m)	EDLSB10-FB	EDLSB20-FB	EDLSB30-FB	EDLSB40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
3 Slot		Eur	Eur	Eur	Eur	Eur	Eur
Slot	800	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1200	-	-	-	-	-	-
	1500	-	-	-	-	-	-
	2000	-	-	-	-	-	-

Price List

Mounting Bridge and Continuity Kit	Eur
Fixing bridge for single-slot diffusers, EDLS-EDLH series.	-
Fixing bridge for two-slots diffusers, EDLS-EDLH series, FA version.	-
Fixing bridge for two-slots diffusers, EDLS-EDLH series, FB version.	-
Fixing bridge for three-slots diffusers, EDLS-EDLH series, FA version.	-
Fixing bridge for three-slots diffusers, EDLS-EDLH series, FB version.	-
Continues Line Kit.	-

Aesthetic Corner PriceList

Aesthetic Corner without deflectors	EDLS-FA	EDLS-FB	EDLSB-FA	EDLSB-FB
	Eur	Eur	Eur	Eur
1 Slot	-	-	-	-
2 Slot	-	-	-	-
3 Slot	-	-	-	-
Continues Line Kit.	-	-	-	-