

EDFLNA - EDFLBNA 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

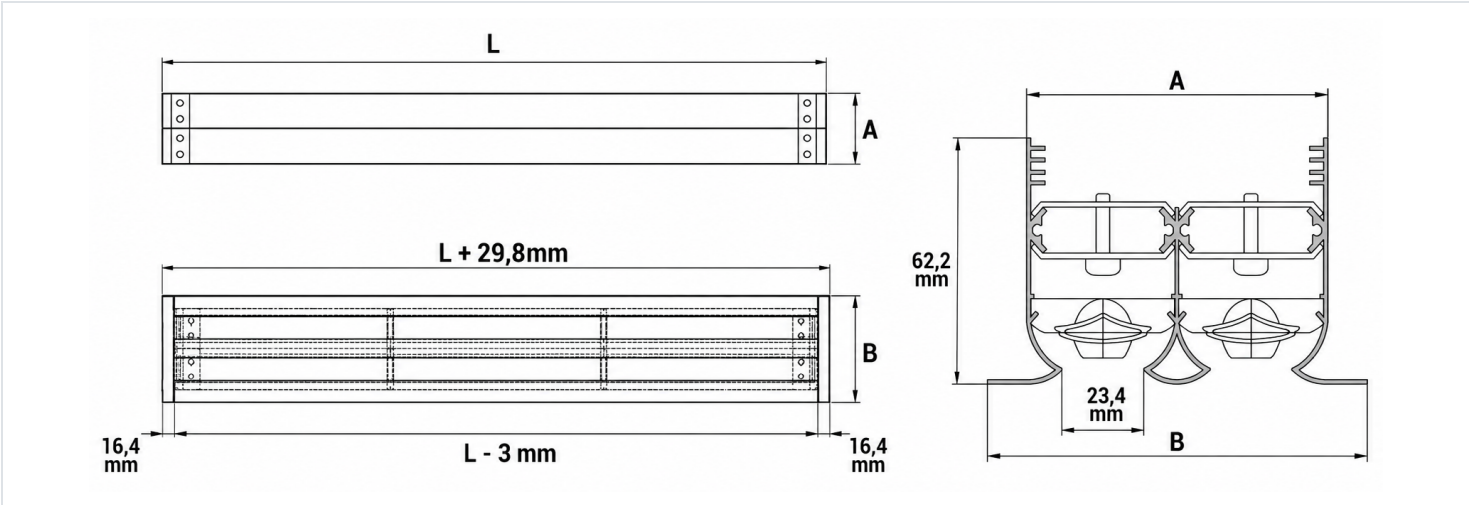
- EDFLNA-10 exhaust diffusers (without deflectors).
- EDFLNA-20 supply diffusers with ALUMINIUM deflectors.
- EDFLBNA-20 white RAL9010 supply diffusers with white ALUMINIUM deflectors.
- EDFLNA-40 supply diffusers with ALUMINIUM deflectors and sliding damper.
- EDFLBNA-40 white RAL9010 supply diffusers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

- EPZ-EDFLN - Galvanized Plenum Box;
- EPI-EDFLN - Insulated plenum box;
- EDFLNA-90° - Corner connection;
- Continues Line Kit.

Linear Diffuser dimensions

Dimensions are expressed in mm.



Nr. Slots	L	A	B	Nr. of Mounting Bridges
1 Slot	800	44,4	67	2
2 Slot		87,6	110,2	2
3 Slot		130,8	153,4	2
4 Slot		174	196,6	2
1 Slot	1000	44,4	67	2
2 Slot		87,6	110,2	2
3 Slot		130,8	153,4	2
4 Slot		174	196,6	2
1 Slot	1500	44,4	67	3
2 Slot		87,6	110,2	3
3 Slot		130,8	153,4	3
4 Slot		174	196,6	3
1 Slot	2000	44,4	67	4
2 Slot		87,6	110,2	4
3 Slot		130,8	153,4	4
4 Slot		174	196,6	4

Operating Data

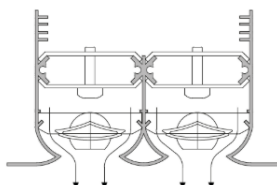
- Data referring to 1 m long diffusers.
- V_k : effective speed (m/s).
- m^3/h : air flow rate.
- Pa: pressure drops in Pascal.
- Lo(m): horizontal air throw in metres calculated on ceiling flush installation and terminal velocity 0.25 m/s.
- Lv(m): vertical air throw in metres calculated on ceiling flush installation and terminal velocity 0.25 m/s.
- dB(A): noise level.

Nr. Slots	Effective Cross-Section (m2)	Air-volume and Air-throw							
1 Slot	0,0099	m³/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 Slot	0,0199	m³/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 Slot	0,0298	m³/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 Slot	0,0398	m³/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

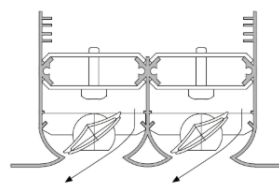
Air Throw Characteristics

Esempi di Configurazioni di Lancio dell'Aria

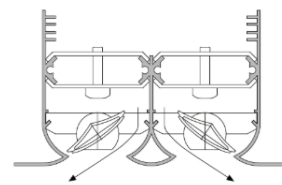
L'immagine illustra un esempio delle diverse configurazioni di lancio possibili di un diffusore lineare a feritoia, ottenibili mediante la regolazione dei deflettori interni: lancio orizzontale monodirezionale, lancio verticale e lancio inclinato/divergente. La possibilità di orientare il flusso d'aria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



LANCIO VERTICALE
VERTICAL THROW



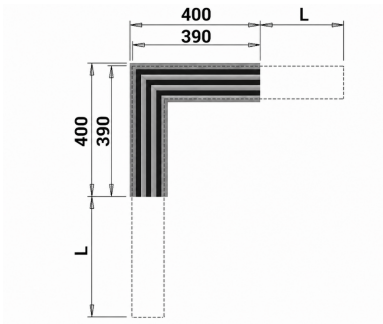
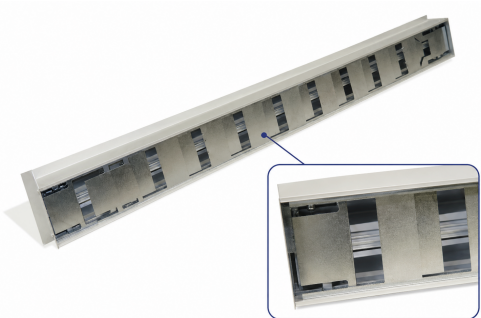
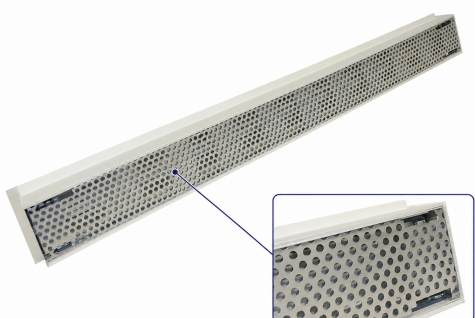
LANCIO ORIZZONTALE 1 DIREZIONE
HORIZONTAL THROW ONE DIRECTION



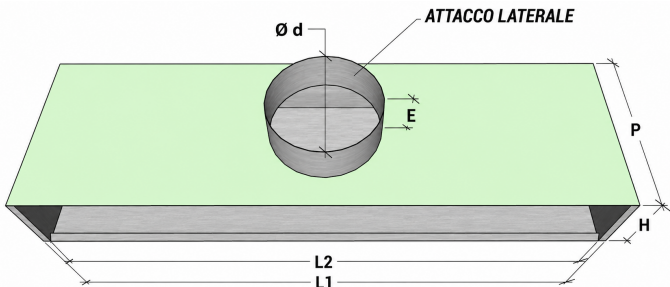
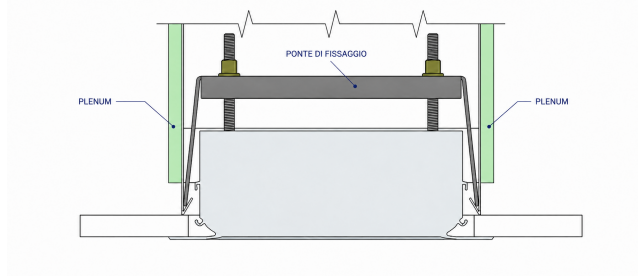
LANCIO ORIZZONTALE 2 DIREZIONI
TWO DIRECTION HORIZONTAL THROW

Accessories

All measurements are expressed in mm.

Connection Angle		Continues Line Kit.
Aesthetic corner element designed to provide a seamless connection between two linear diffuser runs at a 90° angle, with a 400 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 clamps that ensure the precise alignment and secure connection of two adjacent diffuser sections, providing a continuous and uniform installation.
		
Sliding Damper		Equalizer
		

Plenum Dimensions and Fixing Bracket System

Technical Drawing		Installation System with Plenum and Mounting Bridge
EPI-EDLFN - 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.
		

All dimensions are expressed in mm.

Nr. Slots	L	Plenum Box Dimensions					
		L1	Nr. Lat. 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 Slot	800	815	1	148	240	102	80
	1000	1015	1				
	1500	1515	2				
	2000	2015	2				
3 Slot	800	815	1	148	240	145	80
	1000	1015	1				
	1500	1515	2				
	2000	2015	2				
4 Slot	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.

	Models	EDFLNA-10	EDFLNA-20	EDFLNA-40	EDFLNA-50	EPZ-EDFLN - Galvanised Plenum Box	EPI-EDFLN - Insulated Plenum Box
		Eur	Eur	Eur	Eur	Eur	Eur
1 Slot	800	51,57	58,78	72,95	82,58	57,31	73,37
	1000	57,78	68,01	86,75	98,02	63,54	81,65
	1500	83,15	101,26	124,43	139,71	80,41	103,83
	2000	103,62	127,77	156,54	176,00	102,91	134,72
2 Slot	800	75,85	93,68	119,06	136,29	60,79	77,85
	1000	84,67	108,30	137,32	157,44	69,38	88,76
	1500	120,48	156,70	194,86	221,74	87,92	112,86
	2000	149,70	197,97	245,19	279,07	112,06	145,80
3 Slot	800	100,36	128,82	167,00	191,87	64,30	82,33
	1000	111,34	148,81	192,24	221,12	73,93	94,48
	1500	158,04	212,36	268,80	307,28	94,12	120,58
	2000	196,01	268,41	339,23	387,55	119,90	155,51
4 Slot	800	130,93	170,03	220,95	253,45	69,86	89,00
	1000	138,33	189,48	247,03	284,70	77,29	98,91
	1500	194,93	267,38	343,68	393,80	98,48	126,41
	2000	242,06	338,62	433,20	495,72	125,26	162,66

Ral 9010 Painted Version Price List

	Models	EDFLBNA-10	EDFLBNA-20	EDFLBNA-40	EDFLBNA-50	EPZ-EDFLN - Galvanised Plenum Box	EPI-EDFLN - Insulated Plenum Box
		Eur	Eur	Eur	Eur	Eur	Eur
1 Slot	800	77,98	89,08	103,26	112,86	57,31	73,37
	1000	81,26	98,31	116,99	128,30	63,54	81,65
	1500	106,61	134,98	158,16	173,43	80,41	103,83
	2000	132,36	164,93	193,67	213,10	102,91	134,72
2 Slot	800	99,28	130,82	156,20	173,45	60,79	77,85
	1000	107,87	145,41	174,44	194,54	69,38	88,76
	1500	143,90	200,65	238,82	265,72	87,92	112,86
	2000	178,42	248,80	296,04	329,90	112,06	145,80
3 Slot	800	123,79	172,80	210,97	235,82	64,30	82,33
	1000	134,77	192,78	236,17	265,08	73,93	94,48
	1500	181,45	266,58	323,02	361,52	94,12	120,58
	2000	224,73	332,92	403,73	452,00	119,90	155,51
4 Slot	800	154,40	220,84	271,77	304,23	69,86	89,00
	1000	161,79	240,27	297,82	335,51	77,29	98,91
	1500	218,41	331,88	408,19	458,31	98,48	126,41
	2000	270,80	416,81	511,35	573,88	125,26	162,66

Mounting Bridge	Eur
1 Slot	6,99
2 Slot	6,99
3 Slot	6,99
4 Slot	6,99

Accessories Price List

Corner with deflectors	EDFLNA	EDFLBNA
	Eur	Eur
1 Slot	107,85	144,30
2 Slot	142,19	173,15
3 Slot	176,50	204,78
4 Slot	210,80	236,90
Continues Line Kit.	14,16	14,16