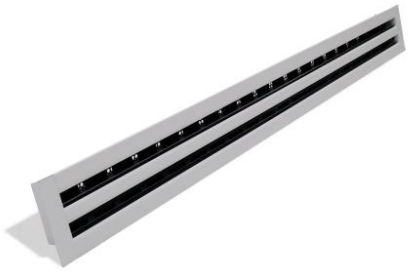
EDFL EDFLB Linear slot diffusers with deflectors



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

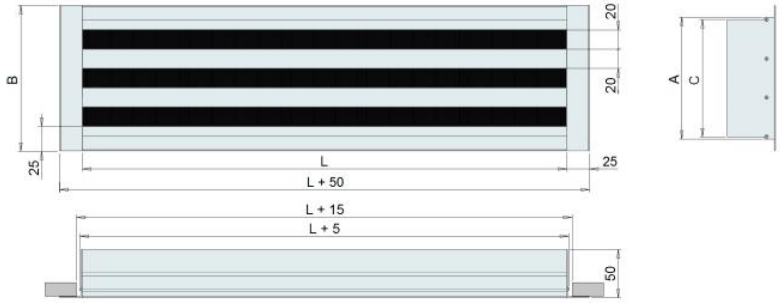
Diffuser suitable for both air supply and exhaust in large rooms. Its modularity allows for great freedom of design.

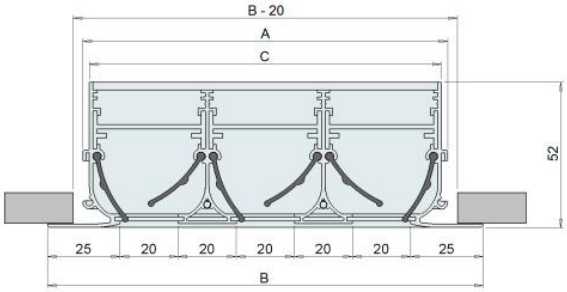
Models

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 Vt=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 m^3/h indicated in the table may be higher.

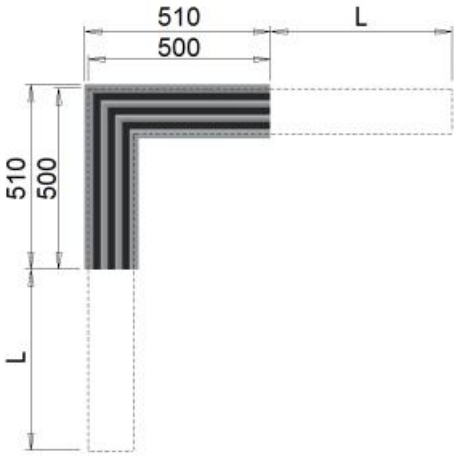
Vk: effective speed (m/s)
m^3/h: air flow rate
Pa: pressure drops in Pascal
L(m): air throw in metres
dB(A): noise level

Number of slots	effective cross-section m^2	air flow rate and throw						
1 slot	0,0097	m^3/h	70	105	140	175	210	245
		L(m)	1.8	2.7	3.6	4.5	5.4	6.3
2 slots	0,0194	m^3/h	140	210	280	350	420	490
		L(m)	2.5	3.8	5	6.3	7.5	8.8
3 slots	0,0291	m^3/h	210	315	420	525	630	735
		L(m)	3	4.7	6	7.8	9.3	11
4 slots	0,0388	m^3/h	280	420	560	700	840	980
		L(m)	3.5	5.4	7	9	11	12.6
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

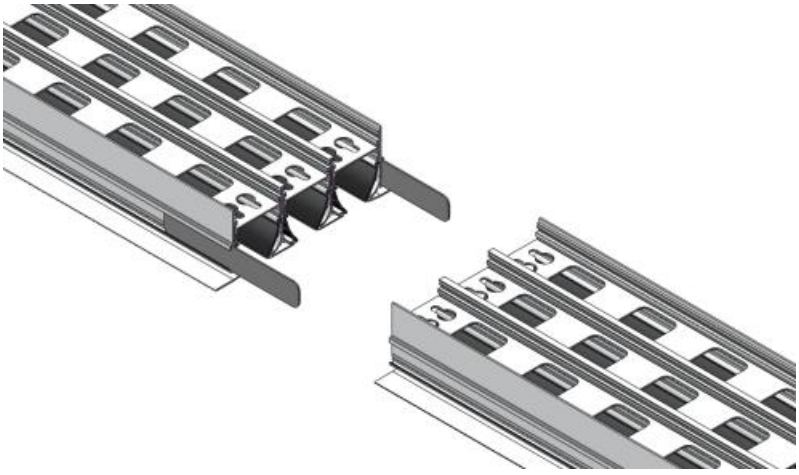
Aesthetic connecting element between the two linear diffuser lines with a 90° angle and 500 mm length on each side. It has no ventilation features.

All measurements are expressed in mm.

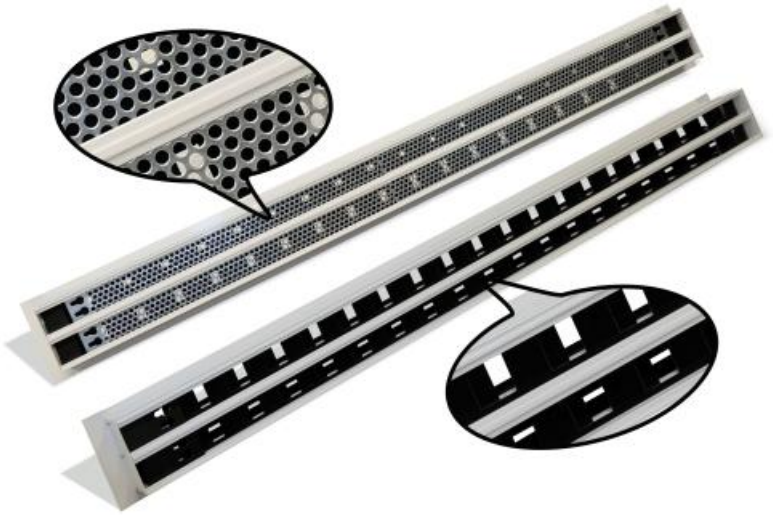


Continuity kit

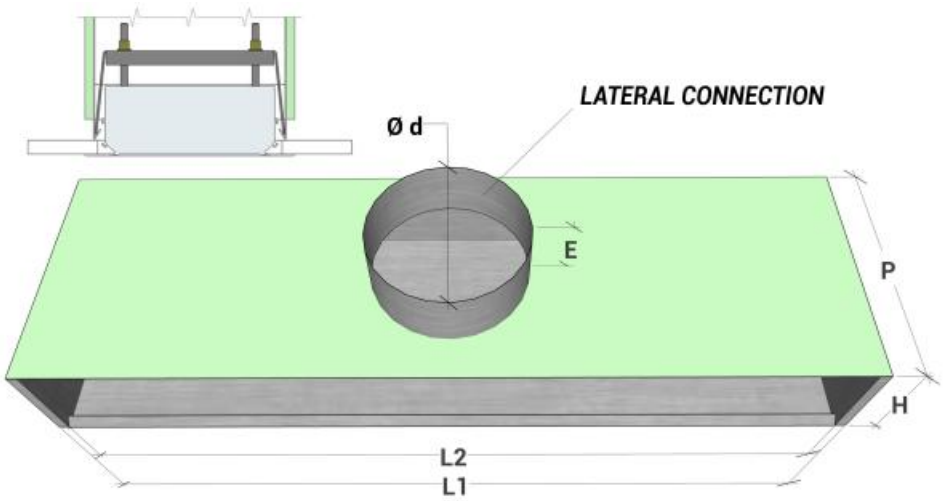
The continuity kit is an accessory required to create continuous lines of linear diffusers longer than 2 metres. It is made up of two junction plates that allow for the alignment and connection of two components of the line.



Equizing mesh and sliding damper:



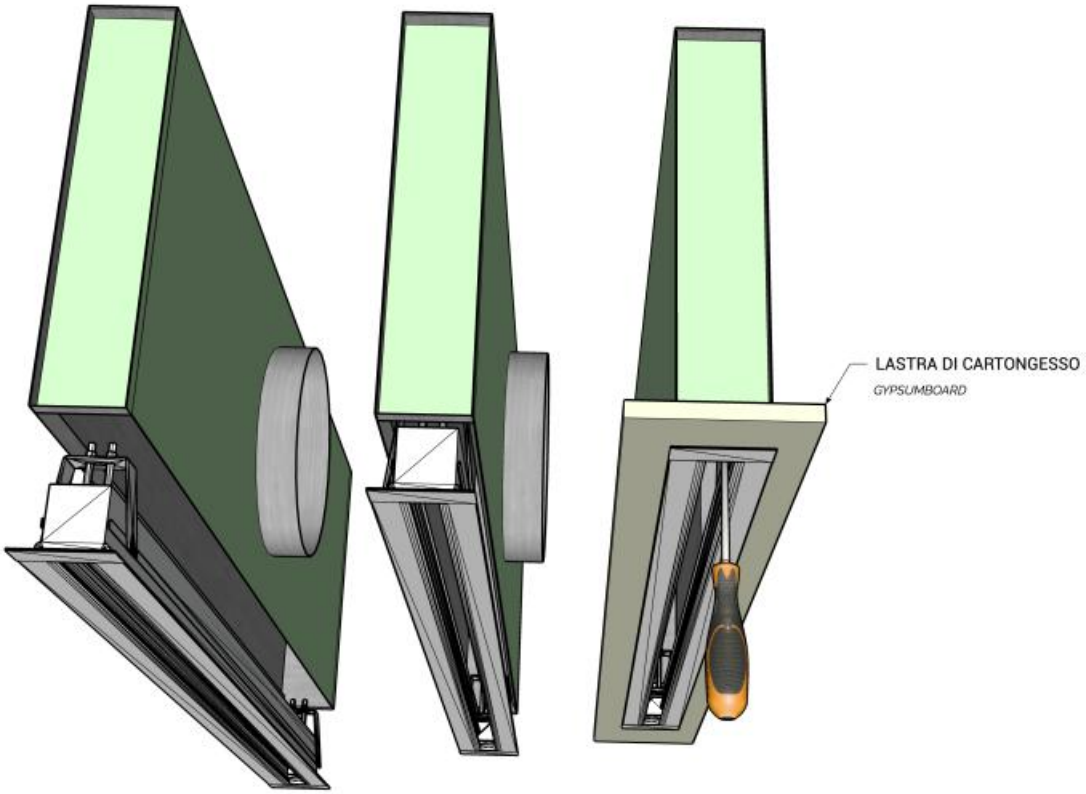
Plenum dimensions and fixing bracket system



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.

	lenght	EDFL-10	EDFL-20	EDFL-30	EDFL-40	EDFL-50	PLENUM	INSULATED PLENUM
		euro	euro	euro	euro	euro	euro	euro
1 slot	600	35,52	39,63	42,12	49,08	52,06	51,27	66,66
	800	40,60	45,30	48,14	53,81	59,51	a.r.	a.r.
	1000	45,31	50,98	54,74	58,53	67,97	a.r.	a.r.
	1200	50,02	56,66	61,34	67,97	77,43	70,06	92,20
	1500	57,57	65,14	69,87	77,41	86,86	a.r.	a.r.
	2000	68,92	79,31	84,94	94,42	107,62	a.r.	a.r.
2 slots	600	47,08	58,44	61,12	69,40	79,31	54,24	70,54
	800	53,81	66,79	69,87	79,31	90,64	a.r.	a.r.
	1000	60,39	72,70	79,31	90,64	102,89	a.r.	a.r.
	1200	67,00	78,61	88,77	101,97	115,15	76,10	99,67
	1500	78,35	93,46	101,96	116,12	135,94	a.r.	a.r.
	2000	96,30	116,12	124,61	145,38	167,08	a.r.	a.r.
3 slots	600	58,65	71,05	79,31	91,72	106,56	57,19	74,41
	800	67,04	81,19	90,64	104,82	121,77	a.r.	a.r.
	1000	75,56	91,58	102,89	118,91	139,70	a.r.	a.r.
	1200	84,07	101,99	115,15	133,03	157,64	80,77	105,79
	1500	98,16	121,77	134,07	157,66	184,11	a.r.	a.r.
	2000	122,73	152,00	165,21	195,44	229,38	a.r.	a.r.
4 slots	600	70,22	91,43	102,50	113,16	133,00	62,11	80,37
	800	80,25	104,50	114,51	129,32	152,00	a.r.	a.r.
	1000	91,58	112,33	126,51	148,19	176,46	a.r.	a.r.
	1200	102,94	129,28	140,48	167,07	200,95	84,21	110,54
	1500	119,90	149,16	166,16	196,35	231,32	a.r.	a.r.
	2000	148,19	187,82	204,86	244,50	287,91	a.r.	a.r.

Ral 9010 painted with black deflectors + 20%

Price list

White version with white deflectors

	lenght	EDFLB-20	EDFLB-40	EDFLB-50	PLENUM	INSULATED PLENUM
		euro	euro	euro	euro	euro
1 slot	600	50,23	62,19	65,94	51,27	66,66
	800	57,39	68,14	75,31	a.r.	a.r.
	1000	64,58	74,12	86,04	a.r.	a.r.
	1200	71,81	86,12	97,96	70,06	92,20
	1500	82,50	98,03	109,96	a.r.	a.r.
	2000	100,42	119,60	136,19	a.r.	a.r.
2 slots	600	74,05	87,91	100,39	54,24	70,54
	800	84,62	100,42	114,68	a.r.	a.r.
	1000	92,06	114,75	130,21	a.r.	a.r.
	1200	99,61	129,13	145,80	76,10	99,67
	1500	118,38	147,04	172,04	a.r.	a.r.
	2000	147,06	184,11	211,48	a.r.	a.r.
3 slots	600	89,98	116,19	134,82	57,19	74,41
	800	102,79	132,72	154,08	a.r.	a.r.
	1000	116,00	150,61	176,85	a.r.	a.r.
	1200	129,25	168,58	199,46	80,77	105,79
	1500	154,21	199,65	232,99	a.r.	a.r.
	2000	192,47	247,51	290,37	a.r.	a.r.
4 slots	600	115,86	143,37	168,44	62,11	80,37
	800	132,40	163,78	192,40	a.r.	a.r.
	1000	142,26	187,67	223,36	a.r.	a.r.
	1200	163,82	211,67	254,44	84,21	110,54
	1500	188,90	248,66	292,80	a.r.	a.r.
	2000	237,92	309,66	364,45	a.r.	a.r.

Price list

fixing bracket	euro
1 slot	12,72
2 slots	12,72
3 slots	12,72
4 slots	12,72

Accessory price list

Angular without deflectors	EDFL	EDFLB
	euro	euro
1 feritoia	90,65	108,79
2 feritoie	120,84	144,98
3 feritoie	151,02	181,20
4 feritoie	183,20	219,80
continuity kit	2,39	2,39