

EDFLB-FL Linear diffusers for air extraction with slot and filter



Description

The EDFLB-FL series diffusers are designed exclusively for return air applications in environments with large surface areas and relatively low ceiling heights.

They are equipped with an internal filter, secured by magnetic fixing, and are suitable for air extraction in offices, open-plan spaces, banks, large hotel lobbies, business centers, retail stores, courthouses, and similar applications.

The diffusers are manufactured from extruded aluminum profiles, engineered to achieve a highly aerodynamic and aesthetically refined design. Standard lengths are 800, 1000, 1500, and 2000 mm, available with a minimum of 3 and a maximum of 4 slots.

The standard finish is painted in RAL 9016; upon request, other finishes are available using epoxy powder coating, electrostatically applied and oven-cured. This type of coating ensures high resistance to impact and abrasion, maintaining its aesthetic properties over time.

The diffuser is fixed to the plenum by means of concealed mounting bridges. It is equipped with dedicated internal tabs within the blade assembly, allowing the core to be opened like a hinged panel, enabling filter replacement without removing the entire diffuser.

Use

EDFLB-FL are used to extract the air from offices, open spaces, banks, large halls of hotels, business centers, shops, courts, etc...

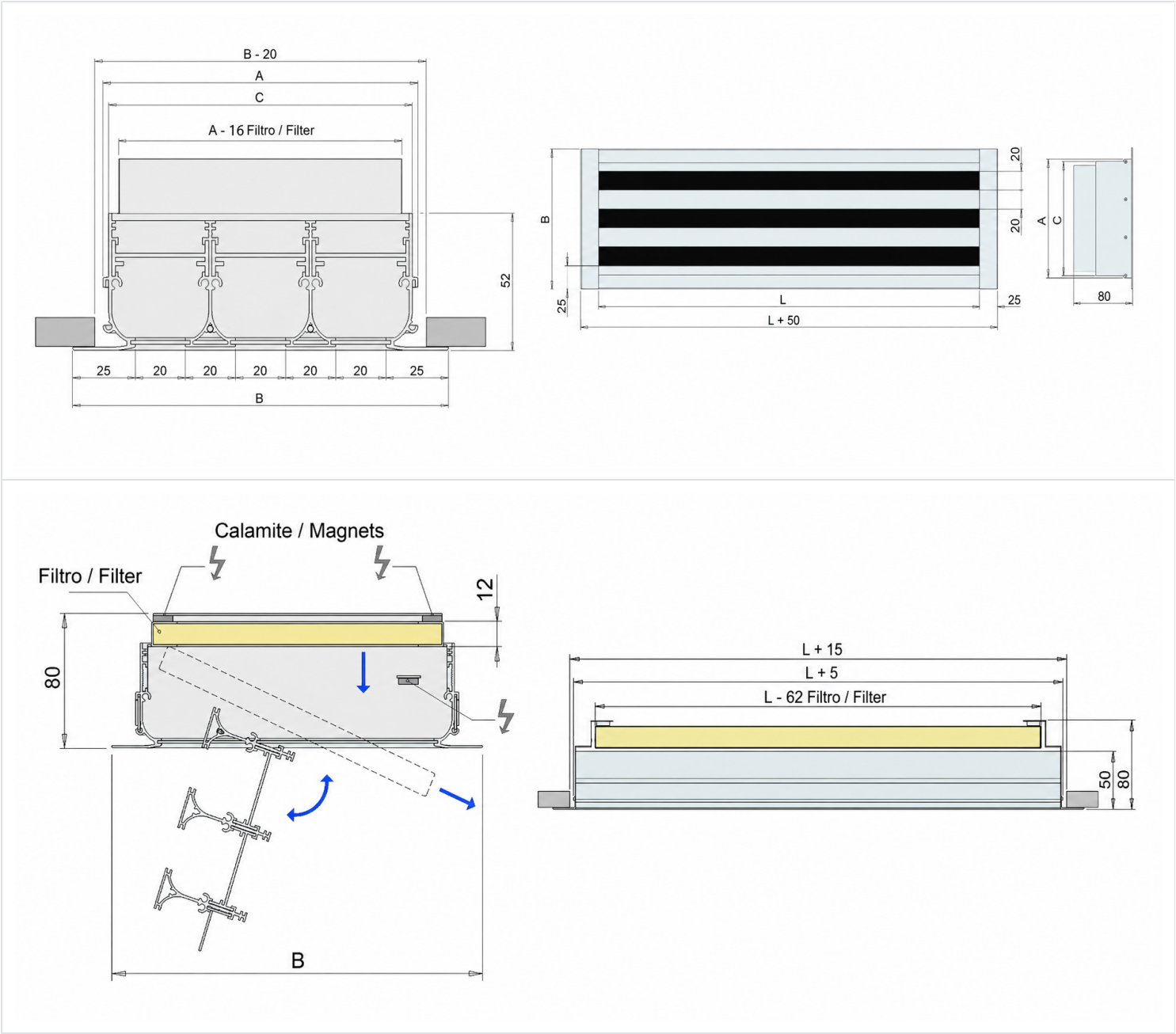
Charateristics

- Material: aluminum;
- EDFLB-FL finish: Ral 9016 painted aluminium frame and Ral 9016 deflectors;
- Slots: only 3 or 4 slots;
- Installation height: from 2,5 to 3,1 m;
- Installation: directly on duct or on plenum box with mounting bridge.

Standard Lengths

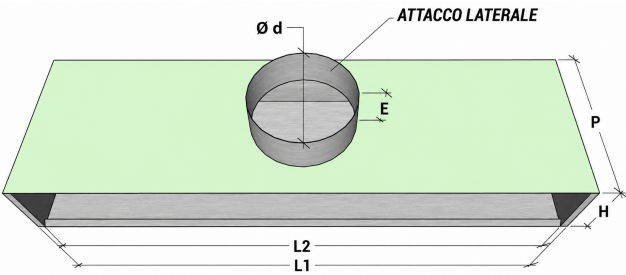
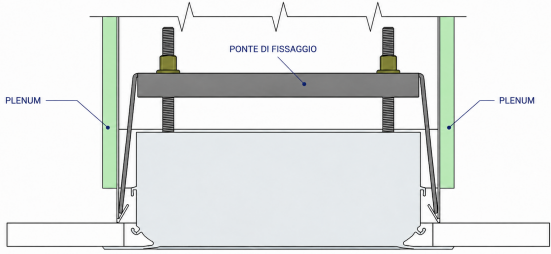
L (mm)	Nr. Slots
800	3 ÷ 4
1000	3 ÷ 4
1500	3 ÷ 4
2000	3 ÷ 4

Diffuser Dimensions



Nr. Slots	A (mm)	B (mm)	C (mm)
3	126	150	121
4	166	190	161

Plenum Dimensions and Mounting System with Fixing Bridges

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

Nr. Slots	L	Plenum Box Dimensions						
		L1	L2	Nr. Lat. Connections	Ø d	P	H	E
3 Slot	800	845	815	1	198	300	138	80
	1000	1045	1015	1				
	1500	1545	1515	2				
	2000	2045	2015	2				
4 Slot	800	845	815	1	198	300	178	80
	1000	1045	1015	1				
	1500	1545	1515	2				
	2000	2045	2015	2				

Operating Data

Nr. Slots	Air Speed M/s	800 mm			1000 mm			1500 mm			2000 mm		
		m³/h	Pa	dB(A)	m³/h	Pa	dB(A)	m³/h	Pa	dB(A)	m³/h	Pa	dB(A)
3	1,5	440	33	35	560	34	37	855	34	39	1150	35	40
	2	590	45	36	745	61	44	1140	62	47	1540	63	48
4	1,5	600	35	37	760	35	38	1165	36	41	1570	37	42
	2	800	63	45	1015	64	45	1555	65	48	2095	66	50

Price List

Nr. Slots	Euro			
	800 mm	1000 mm	1500 mm	2000 mm
3	340,54	383,89	498,57	623,46
4	407,68	465,29	609,21	752,79