

EDLH-EDLHB 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.

EDLH finish: RAL9005 black painted aluminium.

EDLHB finish: RAL9016 white painted aluminium

Slots number: from 1 to 3.

Slots width: 20 or 30 mm.

Installation: by plenum box with mounting bridge.

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 great freedom of design. The EDLH system is designed for the use on plasterboard walls and false ceiling with width 12,5 mm.

Models

- EDLH10-FA - EDLHB10-FA hidden linear diffusers 20 mm slot without deflectors (exhaust).
- EDLH20-FA - EDLHB20-FA hidden linear diffusers 20 mm slot with deflectors (supply).
- EDLH30-FA - EDLHB30-FA hidden linear diffusers 20 mm slot without deflectors, with sliding damper (exhaust).
- EDLH40-FA - EDLHB40-FA hidden linear diffusers 20 mm slot with deflectors and sliding damper (supply).
- EDLH10-FB - EDLHB10-FB hidden linear diffusers 30 mm slot without deflectors (exhaust).
- EDLH20-FB - EDLHB20-FB hidden linear diffusers 30 mm slot with deflectors (supply).
- EDLH30-FB - EDLHB30-FB hidden linear diffusers 30 mm slot without deflectors, with sliding damper (exhaust).
- EDLH40-FB - EDLHB40-FB hidden linear diffusers 30 mm slot with deflectors and sliding damper (supply).

Accessories

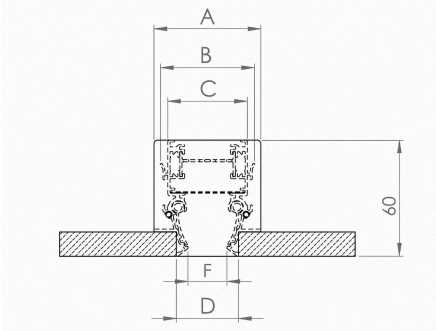
- EPZ-EDL - Galvanized steel plenum box;
- EPI-EDL - Insulated plenum box;
- Mounting bridge;
- Continues line kit.

On demand

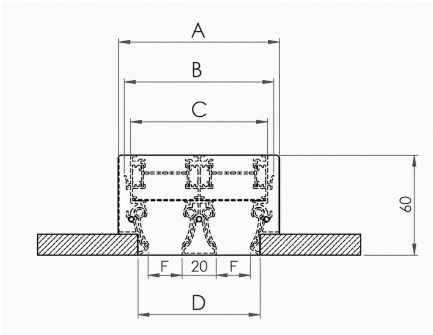
Possibility of installation in continuity.

Plenum box with ovalised rear connection.

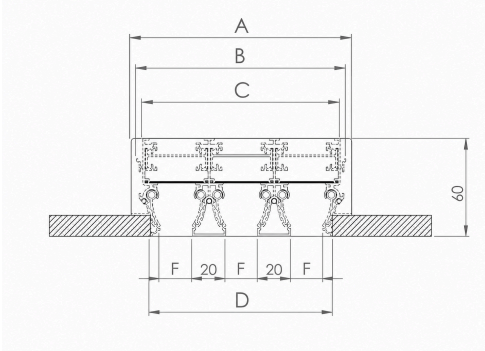
EDLH - EDLHB / 1F (Single-slot diffuser dimensions)

Technical Drawing	EDLH-FA - EDLH-FB	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	Nr. of Mour Bridge
	20 mm Slot Version EDLH-FA EDLHB-FA	800	55	48	41	34	20	2
		1000						2
		1200						2
		1500						2
		2000						2
	30 mm Slot Version EDLH-FB EDLHB-FB	800	65	58	51	44	30	2
		1000						2
		1200						2
		1500						2
		2000						2

EDLH - EDLHB / 2F (Double-slot diffuser dimensions)

Technical Drawing	LH-FA - EDLH-FB - 2F	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	Nr. of Mounting Bridges
	20 mm Slot Version EDLH-FA EDLHB-FA	800	95	88	81	74	20	2
		1000						2
		1200						2
		1500						2
		2000						2
	30 mm Slot Version EDLH-FB EDLHB-FB	800	115	108	101	94	30	2
		1000						2
		1200						2
		1500						2
		2000						2

EDLH - EDLHB / 3F (Triple-slot diffuser dimensions)

Technical Drawing	EDLH-FA - EDLH-FB - 3F	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	Nr. of Mour Bridge
	20 mm Slot Version EDLH-FA EDLHB-FA	800	135	128	121	114	20	2
		1000						2
		1200						2
		1500						2
		2000						2
	30 mm Slot Version EDLH-FB EDLHB-FB	800	165	158	151	144	30	2
		1000						2
		1200						2
		1500						2
		2000						2

Operating Data

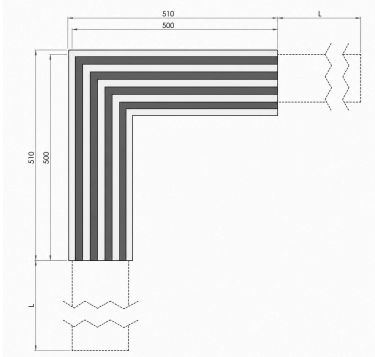
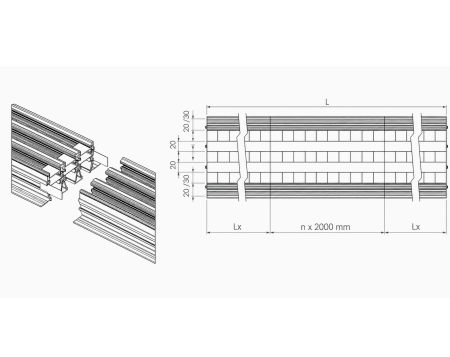
Data refers to 1 m long diffusers, with a terminal velocity $V_t = 0.25$ m/s, flush-mounted on the ceiling and with horizontal air throw (Coanda effect). Values refer to the diffuser without damper or with sliding damper fully open. Values refer to the diffuser with deflectors set in operating position, 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 (m^3/h) shown in the table may vary.

- V_k : effective speed (m/s).
- m^3/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	Dimensions 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

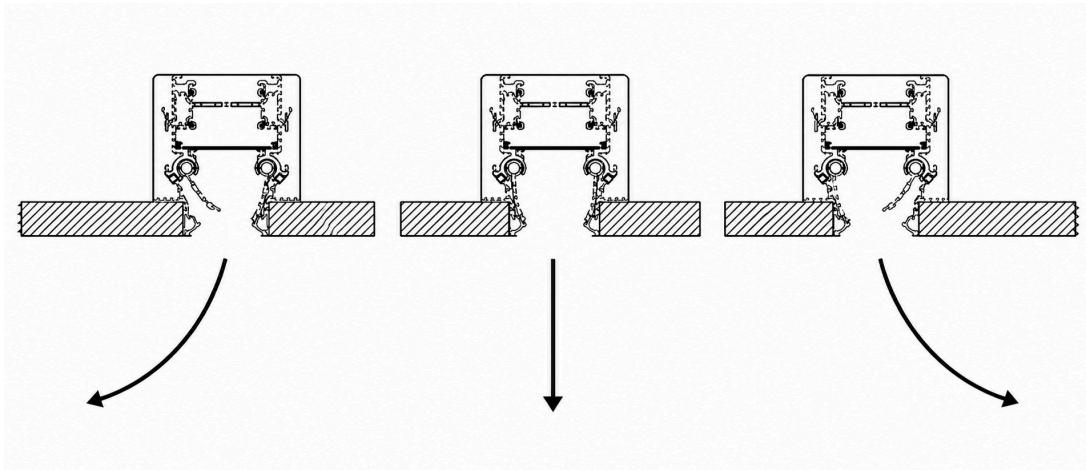
Accessories

All measurements are expressed in mm.

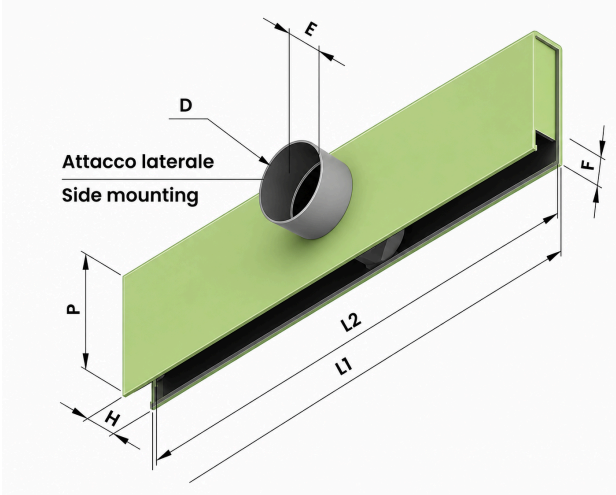
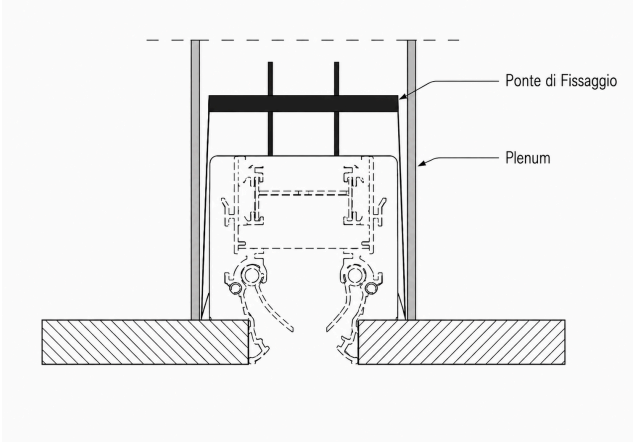
Angolo di collegamento		Kit di continuità
Elemento estetico di raccordo tra i due linee di diffusori lineari con angolo di 90° e lunghezza 500 mm per lato. Non ha funzionalità di ventilazione.		Il kit di continuità è un accessorio necessario per poter realizzare linee in continuità di diffusori lineari di lunghezza superiore ai 2 metri. E' costituito da due piastrine di giunzione che permettono l'allineamento ed il collegamento di due componenti della linea.
		

Air Throw Characteristics

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 Dimensions and Fixing Bracket 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					

Price List for EDLH-FA - 1 slot - black RAL9005 - 20 mm slot

EDLH-FA	Lenght (m)	EDLH10-FA	EDLH20-FA	EDLH30-FA	EDLH40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
1 Slot		€	€	€	€	€	€
Slot da 20 mm	800	53,99	56,54	63,48	70,36	62,11	79,58
	1000	60,66	63,65	70,50	78,46	67,58	86,87
	1200	72,04	76,94	85,77	94,04	84,84	112,15
	1500	82,00	87,99	96,26	106,28	91,44	117,60
	2000	104,42	108,21	123,23	135,09	104,43	137,48

Price List for EDLH-FA - 2 slot - black RAL9005 - 20 mm slots

EDLH-FA	Lenght (m)	EDLH10-FA	EDLH20-FA	EDLH30-FA	EDLH40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
2 Slot		€	€	€	€	€	€
Slot da 20 mm	800	94,35	101,40	111,47	126,38	72,78	95,99
	1000	105,32	113,65	123,44	140,72	78,53	102,79
	1200	124,39	136,88	150,00	168,67	90,16	119,48
	1500	140,85	165,97	167,26	189,98	94,28	130,27
	2000	178,93	216,03	214,13	241,62	107,98	152,86

Price List for EDLH-FA - 3 slot - black RAL9005 - 20 mm slots

EDLH-FA	Lenght (m)	EDLH10-FA	EDLH20-FA	EDLH30-FA	EDLH40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
3 Slot		€	€	€	€	€	€
Slot da 20 mm	800	123,64	136,07	146,93	170,10	78,14	101,77
	1000	138,23	152,66	163,12	189,81	85,05	111,26
	1200	164,21	184,74	200,04	229,02	97,00	130,06
	1500	185,98	224,06	222,81	257,81	103,23	143,33
	2000	237,53	292,75	286,73	329,25	119,69	170,16

Price List for EDLH -FB - 1 slot - black RAL9005 - 30 mm slot

EDLH-FB	Lenght (m)	EDLH10-FB	EDLH20-FB	EDLH30-FB	EDLH40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
1 Slot		€	€	€	€	€	€
Slot da 30 mm	800	55,06	61,27	64,75	71,77	62,70	81,70
	1000	61,86	68,31	71,91	80,02	68,27	87,93
	1200	79,25	86,84	94,34	103,46	88,44	112,60
	1500	90,21	98,13	105,88	116,89	92,32	118,62
	2000	106,50	117,60	125,68	137,78	105,55	138,21

Price List for EDLH -FB - 2 slot - black RAL9005 - 30 mm slots

EDLH-FB	Lenght (m)	EDLH10-FB	EDLH20-FB	EDLH30-FB	EDLH40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
2 Slot		€	€	€	€	€	€
Slot da 30 mm	800	100,96	108,48	119,26	135,22	70,62	96,97
	1000	112,69	121,60	132,06	150,56	77,73	107,07
	1200	133,10	146,46	160,48	180,46	99,48	132,30
	1500	150,71	177,58	178,96	203,27	105,11	145,01
	2000	191,44	231,14	229,11	258,52	122,05	170,98

Price List for EDLH -FB - 3 slot - black RAL9005 - 30 mm slots

EDLH-FB	Lenght (m)	EDLH10-FB	EDLH20-FB	EDLH30-FB	EDLH40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
3 Slot		€	€	€	€	€	€
Slot da 30 mm	800	132,28	145,59	157,21	182,00	79,41	104,01
	1000	147,89	163,33	174,53	203,08	86,53	113,17
	1200	175,69	197,67	214,03	245,03	99,48	132,30
	1500	198,99	239,74	238,40	275,84	105,11	145,54
	2000	254,14	313,22	306,79	352,29	122,05	173,01

Price List for EDLHB-FA - 1 slot - white RAL9016 - 20 mm slot

EDLHB-FA	Lenght (m)	EDLHB10-FA	EDLHB20-FA	EDLHB30-FA	EDLHB40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
1 Slot		€	€	€	€	€	€
Slot da 20 mm	800	53,99	56,54	63,48	70,36	62,11	79,58
	1000	60,66	63,65	70,50	78,46	67,58	86,87
	1200	72,04	76,94	85,77	94,04	84,84	112,15
	1500	82,00	93,54	96,26	106,28	91,44	117,60
	2000	104,42	108,21	123,23	135,09	104,43	137,48

PriceList for EDLHB-FA - 2 slot - white RAL9016 - 20 mm slots

EDLHB-FA	Lenght (m)	EDLHB10-FA	EDLHB20-FA	EDLHB30-FA	EDLHB40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
2 Slot		€	€	€	€	€	€
Slot da 20 mm	800	94,35	101,40	111,47	126,38	72,78	95,99
	1000	105,32	113,65	123,44	140,72	78,53	102,79
	1200	124,39	136,88	150,00	168,67	90,16	119,48
	1500	140,85	165,97	167,26	189,98	94,28	130,27
	2000	178,93	216,03	214,13	241,62	107,98	152,86

Price List for EDLHB-FA - 3 slot - white RAL9016 - 20 mm slots

EDLHB-FA	Lenght (m)	EDLHB10-FA	EDLHB20-FA	EDLHB30-FA	EDLHB40-FA	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
3 Slot		€	€	€	€	€	€
Slot da 20 mm	800	123,64	136,07	146,93	170,10	78,14	101,77
	1000	138,23	152,66	163,12	189,81	85,05	111,26
	1200	164,21	184,74	200,04	229,02	97,00	130,06
	1500	185,98	224,06	222,81	257,81	103,23	143,33
	2000	237,53	292,75	286,73	329,25	119,69	170,16

Price List for EDLHB -FB - 1 slot - white RAL9016 - 30 mm slot

EDLHB-FB	Lenght (m)	EDLHB10-FB	EDLHB20-FB	EDLHB30-FB	EDLHB40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
1 Slot		€	€	€	€	€	€
Slot da 30 mm	800	55,06	61,27	64,75	71,77	62,70	81,70
	1000	61,86	68,31	71,91	80,02	68,27	87,93
	1200	79,25	86,84	94,34	103,46	88,44	112,60
	1500	90,21	98,13	105,88	116,89	92,32	118,62
	2000	106,50	117,60	125,68	137,78	105,55	138,21

Price List for EDLHB-FB - 2 slot - white RAL9016 - 30 mm slots

EDLHB-FB	Lenght (m)	EDLHB10-FB	EDLHB20-FB	EDLHB30-FB	EDLHB40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
2 Slot		€	€	€	€	€	€
Slot da 30 mm	800	100,96	108,48	119,26	135,22	70,62	96,97
	1000	112,69	121,60	132,06	150,56	77,73	107,07
	1200	133,10	146,46	160,48	180,46	99,48	132,30
	1500	150,71	177,58	178,96	203,27	105,11	145,01
	2000	191,44	231,14	229,11	258,52	122,05	170,98

Price List for EDLHB-FB - 3 slot - white RAL9016 - 30 mm slots

EDLHB-FB	Lenght (m)	EDLHB10-FB	EDLHB20-FB	EDLHB30-FB	EDLHB40-FB	EPZ-EDL - Plenum Box	EPI-EDL - Insulated Plenum Box
3 Slot		€	€	€	€	€	€
Slot da 30 mm	800	132,28	145,59	157,21	182,00	79,41	104,01
	1000	147,89	163,33	174,53	203,08	86,53	113,17
	1200	175,69	197,67	214,03	245,03	99,48	132,30
	1500	198,99	239,74	238,40	275,84	105,11	145,54
	2000	254,14	313,22	306,79	352,29	122,05	173,01

Price List

Mounting Bridge and Continuity Kit	€
Fixing bridge for single-slot diffusers, EDLS-EDLH series.	12,72
Fixing bridge for two-slots diffusers, EDLS-EDLH series, FA version.	12,72
Fixing bridge for two-slots diffusers, EDLS-EDLH series, FB version.	12,72
Fixing bridge for three-slots diffusers, EDLS-EDLH series, FA version.	12,72
Fixing bridge for three-slots diffusers, EDLS-EDLH series, FB version.	12,72
Continues Line Kit.	2,39

Aesthetic Corner Price List

Aesthetic Corner without deflectors	EDLH-FA	EDLH-FB	EDLHB-FA	EDLHB-FB
	€	€	€	€
1 Slot	121,34	123,73	121,34	123,73
2 Slot	210,65	225,38	210,65	225,38
3 Slot	276,46	295,78	276,46	295,78
Continues Line Kit.	2,39	2,39	2,39	2,39