idealair
group

AURAS

Linear slot diffuser & high induction slot diffuser

LSD	LSMC	LSMB	LDD
LSD20	LSMC120	LSMB120	LDD30
LSD25	LSMC220	LSMB220	
LSDFL20	LSMC320	LSMB320	
LSDFL25	LSMC420	LSMB420	
	LSMC520	LSMB520	
	LSMC620	LSMB620	
	LSMC720	LSMB720	
	LSMC820	LSMB820	

idealair group

PRODUCT DATA SHEET

1 YR WARRANTY

LINEAR SLOT DIFFUSER

Overview

The LSD series linear slot diffuser is designed for ceiling applications. The linear can be used for either supply or return air. Both size linear are available in one to eight slots. Blade adjustment gives a full range of air flow patterns from vertical to 180°. The blades and mullions are easily removed for access. Maximum single lengths are 2400mm, but where longer lengths are required, a simple joining strip will give the appearance of a continuous length. The standard finish is powder coated RAL9016 with black anodised blades. Other colours available upon request, contact your local dealer.

LSD20
Linear slot diffuser with 20mm slots

LSD25
Linear slot diffuser with 25mm slots

Size Range
1 to 8 slot
- infinite lengths

Rear perspective

Front view

End view

Rear view

Side view

idealair group reserves the right to make changes to product without prior notice.

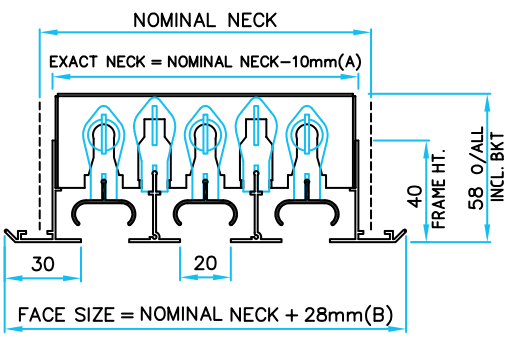
info@idealairgroup.com.au **idealairgroup.com.au**

082024

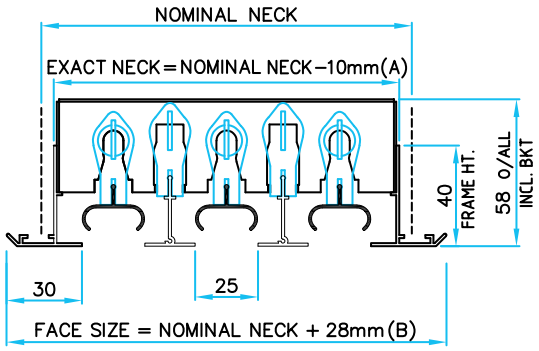
Product Specifications

idealair group

LSD20



LSD25

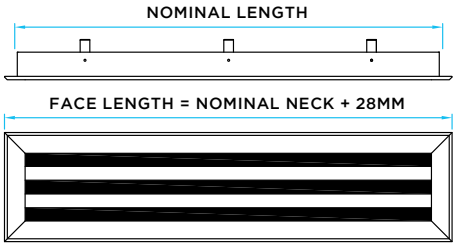


Product Codes

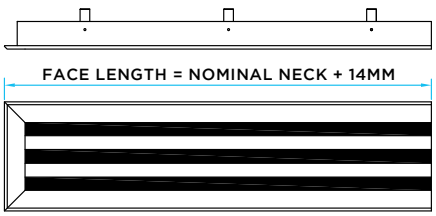
	LSD20	LSD25	LSD20	LSD25	LSD20	LSD25
No. Slots	Nominal		A		B	
1	50	57	40	47	78	85
2	90	102	80	92	118	130
3	130	147	120	137	158	175
4	170	192	160	182	198	220
5		237		227		265
6		282		272		310
7	5 to 8 slot LSD20 & LSD25 Linear Slot Diffusers are available. Please contact your IAG branch for product specifications and sizing.					
8						

Dimensions in millimetres

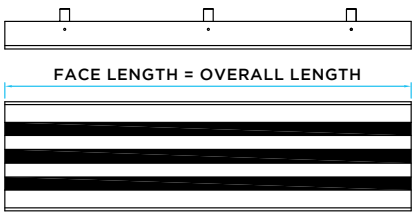
Linear Length



LSD LINEAR C/W TWO ENDS
(3 SLOTS)

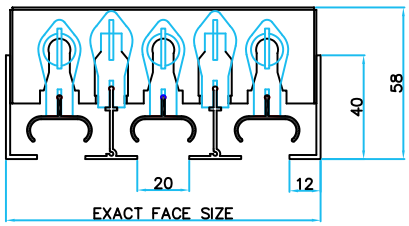


LSD LINEAR C/W ONE END
(3 SLOTS)

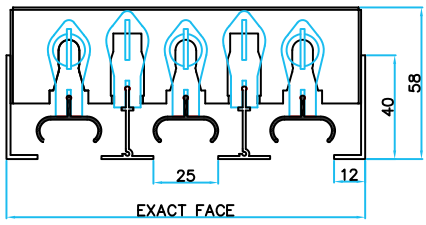


LSD LINEAR C/W NO ENDS
(3 SLOTS)

LSDFL20



LSDFL25



Product Codes

	LSDFL20		LSDFL25	
No. Slots	PART CODE	EXACT FACE	PART CODE	EXACT FACE
1	LSDFL120	41	LSDFL125	48
2	LSDFL220	81	LSDFL225	93
3	LSDFL320	121	LSDFL325	138
4	LSDFL420	161	LSDFL425	183

Dimensions in millimetres

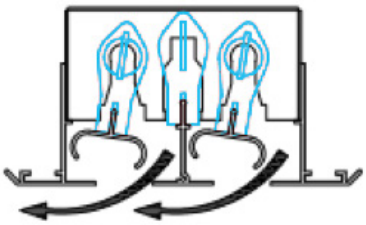
idealair group reserves the right to make changes to product without prior notice.

info@idealairgroup.com.au **idealairgroup.com.au**

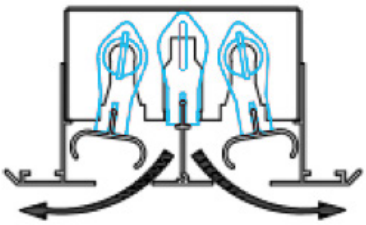
082024

Product Specifications

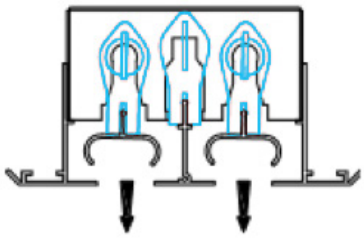
Airflow Patterns



HORIZONTAL ONE WAY PATTERN

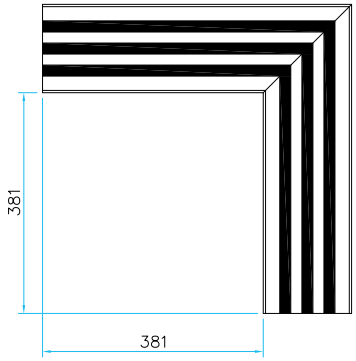


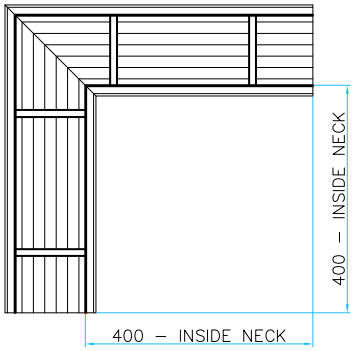
HORIZONTAL TWO WAY PATTERN



VERTICAL PATTERN

Mitred Corners



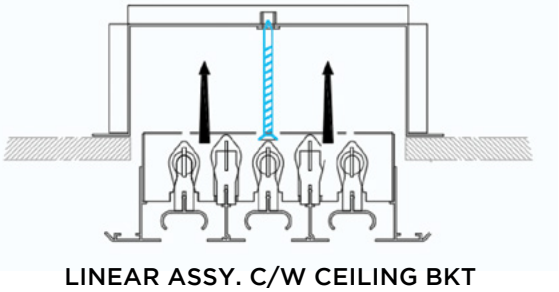


Product Codes

No. Slots	LSD20	LSD25
1	LSMC120	LSMC125
2	LSMC220	LSMC225
3	LSMC320	LSMC325
4	LSMC420	LSMC425
5	LSMC520	LSMC525
6	LSMC620	LSMC625
7	LSMC720	LSMC725
8	LSMC820	LSMC825

Ceiling Bracket

A ceiling bracket is available to mount the linear by removing the mullion and blades and screwing (pulling) the linear to the ceiling. Available for all size linears.



LINEAR ASSY. C/W CEILING BKT

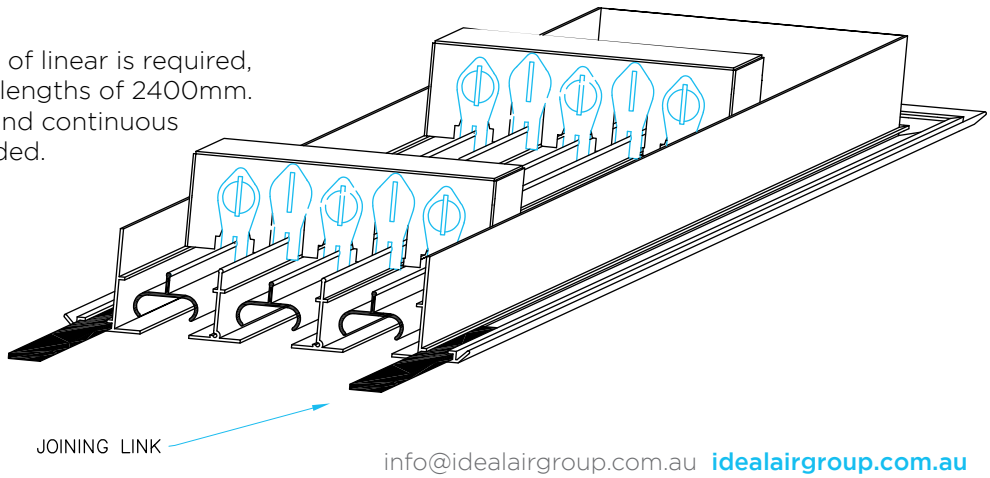
Product Codes

No. Slots	LSD20	LSD25
1	LSMB120	LSMB125
2	LSMB220	LSMB225
3	LSMB320	LSMB325
4	LSMB420	LSMB425
5	LSMB520	LSMB525
6	LSMB620	LSMB625
7	LSMB720	LSMB725
8	LSMB820	LSMB825

Linear Slot Diffuser Joining Link

PRODUCT CODE: FJS

Where a continuous longer length of linear is required, they will be supplied in maximum lengths of 2400mm. To give a neat, seamless, aligned and continuous appearance joining links are provided.



idealair group reserves the right to make changes to product without prior notice.

info@idealairgroup.com.au idealairgroup.com.au

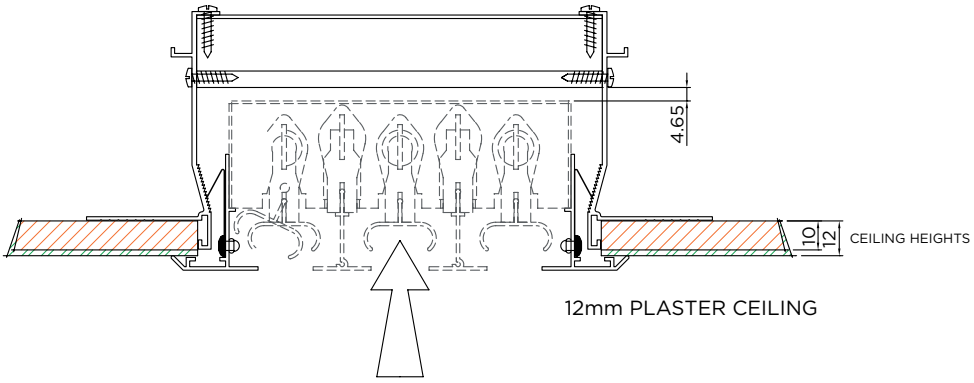
082024

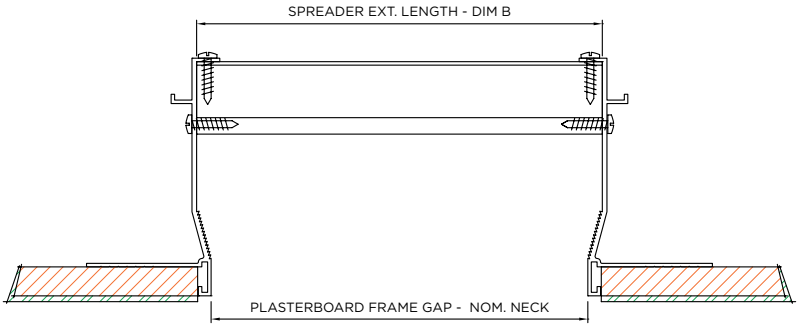
Easymount Plaster Ceiling Frame LSD 20

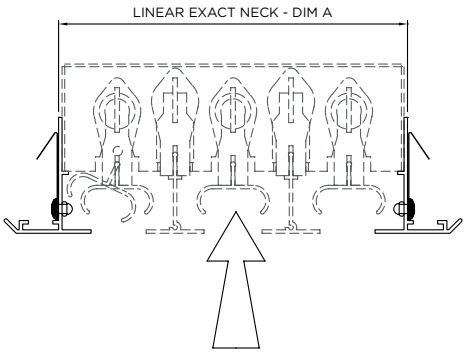
ITEM CODE	NO. SLOTS	NOMINAL NECK (mm)	DIMENSION A (mm)	DIMENSION B (mm)
EML120	1	50	40	60
EML220	2	90	80	100
EML320	3	130	120	140
EML420	4	170	160	180

Easymount Plaster Ceiling Frame LSD 25

ITEM CODE	NO. SLOTS	NOMINAL NECK (mm)	DIMENSION A (mm)	DIMENSION B (mm)
EML125	1	57	47	67
EML225	2	102	92	112
EML325	3	147	137	157
EML425	4	192	182	202







For further information please refer to data sheet Ventum-Easymount.

idealair group reserves the right to make changes to product without prior notice.

Technical Data

idealair group

Size	Product	Air Pattern		Size - number of slots x 1000mm long							
1 Slot	LSD20		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	Flow Rate (l/s)	19	28	35	41	51	57	63	65
			Throw (m)	0.3 to 2.3	1.0 to 3.1	1.5 to 3.6	1.8 to 4.1	2.4 to 4.6	2.8 to 4.9	2.9 to 5.2	3.1 to 5.3
		Vertical Throw	Flow Rate (l/s)	22	32	40	48	58	66	75	
			Throw (m)	2.6	3.4	4.0	4.3	4.8	5.0	5.2	
			Noise NR	<20	<20	22	29	34	40	45	47
	LSD25		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	Flow Rate (l/s)	25	35	45	52	61	75	85	92
			Throw (m)	0.2 to 2.3	1.0 to 3.3	1.5 to 3.9	1.9 to 4.2	2.6 to 4.6	2.8 to 5.0	3.1 to 5.3	3.2 to 5.5
		Vertical Throw	Flow Rate (l/s)	35	50	62	72	87	98		
			Throw (m)	2.8	3.6	4.1	4.4	4.9	5.2		
			Noise NR	<20	<20	27	26	32	36	40	42
2 Slot	LSD20		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	Flow Rate (l/s)	39	57	70	82	101	117	132	145
			Throw (m)	0.8 to 3.9	1.6 to 4.6	2.3 to 5.3	2.8 to 5.8	3.6 to 6.4	3.9 to 6.8	4.2 to 7.1	4.4 to 7.5
		Vertical Throw	Flow Rate (l/s)	45	63	79	93	116	136	152	
			Throw (m)	3.9	4.7	5.4	5.9	6.6	7.0	7.1	
			Noise NR	<20	23	28	31	37	42	47	50
	LSD25		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	Flow Rate (l/s)	50	70	90	105	132	152	170	183
			Throw (m)	0.7 to 3.8	1.5 to 4.8	2.3 to 5.3	2.8 to 5.8	3.6 to 6.3	4.1 to 6.7	4.3 to 7.1	4.5 to 7.5
		Vertical Throw	Flow Rate (l/s)	70	95	123	142	173	195		
			Throw (m)	3.8	5.1	5.8	6.3	6.8	7.3		
			Noise NR	<20	<20	27	30	37	42	45	49
3 Slot	LSD20		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	Flow Rate (l/s)	58	85	105	120	148	173	196	215
			Throw (m)	1.1 to 4.9	2.2 to 5.8	3.2 to 6.5	3.6 to 7.0	4.5 to 7.9	4.9 to 8.4	5.1 to 8.9	5.3 to 9.2
		Vertical Throw	Flow Rate (l/s)	67	95	118	137	172	202	223	
			Throw (m)	4.5	5.7	6.6	7.1	7.9	8.5	8.9	
			Noise NR	<20	25	30	32	40	45	51	53
	LSD25		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	Flow Rate (l/s)	70	112	140	160	195	223	250	277
			Throw (m)	1.1 to 4.8	2.0 to 5.8	3.1 to 6.6	3.6 to 7.0	4.5 to 7.8	4.9 to 8.3	5.3 to 8.8	5.5 to 9.2
		Vertical Throw	Flow Rate (l/s)	100	145	180	210	260	300		
			Throw (m)	4.9	6.3	7.1	7.6	8.4	8.9		
			Noise NR	<20	22	31	34	39	43	47	49
4 Slot	LSD20		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	Flow Rate (l/s)	78	116	143	162	202	233	260	285
			Throw (m)	1.5 to 5.6	2.9 to 6.6	3.8 to 7.5	4.3 to 8.1	5.2 to 9.1	5.7 to 9.8	5.0 to 10.4	6.2 to 10.8
		Vertical Throw	Flow Rate (l/s)	91	128	158	184	228	266	302	
			Throw (m)	5.3	6.6	7.5	8.2	9.2	9.8	10.3	
			Noise NR	<20	27	31	34	42	47	53	56
	LSD25		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	Flow Rate (l/s)	95	145	185	212	240	298	336	368
			Throw (m)	1.3 to 5.6	2.8 to 6.6	3.8 to 7.5	4.4 to 8.0	5.3 to 9.0	5.8 to 9.6	6.1 to 10.1	6.2 to 10.6
		Vertical Throw	Flow Rate (l/s)	135	190	240	280	340	395		
			Throw (m)	5.7	7.0	8.1	8.8	9.6	10.3		
			Noise NR	<20	23	32	35	41	46	49	51

Horizontal throw terminal velocities - Min = 0.75m/sec & Max. = 0.25m/sec
This data to be used for quick selection only, not to be used for commissioning.

For performance data for the LSD20 & LSD25 – 5 to 8 slot not shown please contact your IAG branch.

idealair group reserves the right to make changes to product without prior notice.

info@idealairgroup.com.au idealairgroup.com.au

082024

Technical Data

idealair group

Size - number of slots x 1000mm long

Size	Product	Air Pattern								
5 Slot	LSD25		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	**Flow Rate (l/s)**	118	180	230	265	300	360	415	455
			Throw (m)	1.5 to 6.1	3.5 to 7.0	4.4 to 8.0	4.9 to 8.5	5.9 to 9.8	6.3 to 10.6	6.7 to 11.3	6.6 to 11.9
		Vertical Throw	**Flow Rate (l/s)**	168	235	290	350	420	495		
			Throw (m)	6.5	7.5	8.5	9.4	10.3	11.5		
			Noise NR	<20	24	33	37	42	47	51	52
6 Slot	LSD25		**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Horizontal Throw	**Flow Rate (l/s)**	140	215	280	315	350	440	500	550
			Throw (m)	1.7 to 6.6	4.3 to 7.5	4.8 to 8.4	5.2 to 9.1	6.5 to 10.2	6.8 to 11.6	7 to 12.2	6.8 to 12.7
		Vertical Throw	**Flow Rate (l/s)**	200	280	350	415	500	590		
			Throw (m)	7.2	8	9	10	11	12		
			Noise NR	<20	26	35	38	43	48	52	53

Horizontal throw terminal velocities - Min = 0.75m/sec & Max. = 0.25m/sec
This data to be used for quick selection only, not to be used for commissioning.

For performance data for the LSD20 & LSD25 – 5 to 8 slot linear diffusers please contact your IAG branch.

Return Air

Size - number of slots x 1000mm long

Size	Product	Pressure Drop (Pa)	5	10	20	30	40	60
1 Slot	LSD20	**Flow Rate (l/s)**	22	33	49	60	70	87
		Noise NR	<20	<20	23	30	35	42
	LSD25	**Flow Rate (l/s)**	30	45	60	75	95	116
		Noise NR	<20	<20	22	28	33	39
2 Slot	LSD20	**Flow Rate (l/s)**	45	68	95	120	142	180
		Noise NR	<20	<20	26	33	38	45
	LSD25	**Flow Rate (l/s)**	60	90	125	155	183	232
		Noise NR	<20	<20	25	32	37	44
3 Slot	LSD20	**Flow Rate (l/s)**	65	100	145	183	215	275
		Noise NR	<20	22	30	35	39	46
	LSD25	**Flow Rate (l/s)**	95	135	188	234	275	342
		Noise NR	<20	21	28	33	38	45
4 Slot	LSD20	**Flow Rate (l/s)**	90	135	190	240	285	365
		Noise NR	<20	24	31	36	40	48
	LSD25	**Flow Rate (l/s)**	125	180	250	310	370	460
		Noise NR	<20	22	28	35	39	45
5 Slot	LSD 25	**Flow Rate (l/s)**	155	223	312	375	450	575
		Noise NR	<20	24	31	37	42	47
6 Slot	LSD 25	**Flow Rate (l/s)**	188	265	365	450	550	685
		Noise NR	<20	25	33	38	43	49

Published data is based on return air performance with the vanes pushed to the side. Pressure drop will be slightly higher in the central position.
Recommended maximum static pressure loss for a return air application is 40pa.
For very high air flow rates, customers have the option to remove the adjustable vanes on-site. Contact IAG for further information.

idealair group reserves the right to make changes to product without prior notice.

LINEAR SLOT DIFFUSER

Order Details

idealair group

Example – To order a 3 slot, 25mm slot width, linear slot diffuser with a nominal length of 1.75 metres with 2 ends, in standard RAL9016 colour.

CODE = LSD-3-25-1750-2

Note: Contact your sales branch or sales representative if your desired product cannot be ordered by using the above ordering criteria.

LSD-__-___-_____-__-__

FINISH
NIL CODE = Standard white RAL9016
R = Raw finish

NUMBER OF ENDS
0 = No ends - open ended linear
1 = One end only
2 = Two ends

LINEAR LENGTH
Nominal length MUST be used
Length stated in millimetres (mm)

LINEAR SLOT WIDTH
20 = 20mm wide slotted linear
25 = 25mm wide slotted linear

NUMBER OF SLOTS
1 = Single slot
2 = Two slot
3 = Three slot
4 = Four slot
5 = Five slot
6 = Six slot
7 = Seven slot
8 = Eight slot

MODEL
LSD = Linear Slot Diffuser

idealair group reserves the right to make changes to product without prior notice.

idealair group

PRODUCT DATA SHEET

1 YR WARRANTY

HIGH INDUCTION LINEAR SLOT DIFFUSER

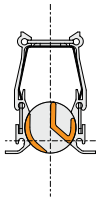
Overview

The LDD high induction diffuser comprises a series of 30mm diameter elements mounted within an aluminium frame. Discharge elements are individually adjustable, providing flexibility to meet various space requirements. Linear LDD are ideal for highly discrete architectural applications with accessories for easy continuous line installation.

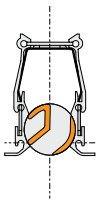
LDD30

Ceiling diffuser for room heights to 4m
Made from anodised aluminium profiles
1-row, 2-row, 3-row and 4-row versions
Lengths from 300mm to 2000mm in 100mm increments
Special RAL powder coating options available

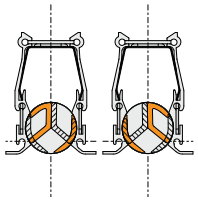
LDD30 Adjustable Drum Discharge

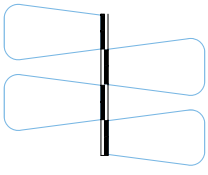


One-way horizontal
air discharge to the right



One-way horizontal
air discharge to the left





Alternating air control elements
(every second element different)

idealair group reserves the right to make changes to product without prior notice.

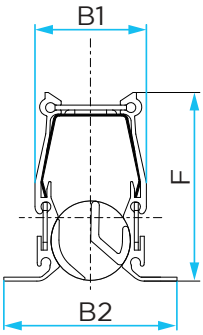
LDD30 Technical Data

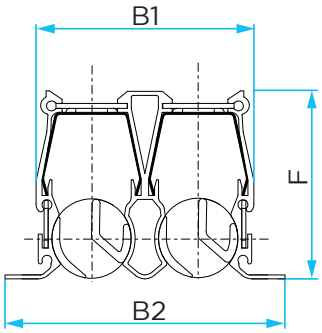
Size - number of slots x 1000mm long

Size	Product									
1 Slot	LDD30	**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Flow Rate (l/s)	8	14	18	22	28	32	36	42
		Noise NR	<20	<20	<20	20	23	29	32	36
2 Slot	LDD30	**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Flow Rate (l/s)	18	30	38	48	58	67	74	81
		Noise NR	<20	<20	20	23	29	32	37	42
3 Slot	LDD30	**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Flow Rate (l/s)	28	42	56	72	92	117	136	152
		Noise NR	<20	<20	20	23	29	37	41	44
4 Slot	LDD30	**Total Pressure (Pa)**	**5**	**10**	**15**	**20**	**30**	**40**	**50**	**60**
		Flow Rate (l/s)	44	69	83	97	119	138	158	171
		Noise NR	<20	20	25	29	36	40	42	46

This data to be used for quick selection only, not to be used for commissioning.
For detailed selection and throw data please refer to selection software (contact Idealair group for link).

LDD30 Product Specifications



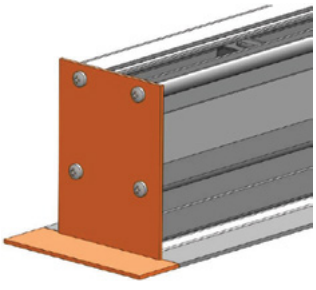


No. Slots	Product	Install Height (m)	B1 (mm)	B2 (mm)	A (mm)	B (mm)	C (mm)	F (mm)
1 Slot	LDD30	2.7 - 4.0	28	47.5	221	120	174	47
2 Slot	LDD30	2.7 - 4.5	55	74.5	236	150	189	47
3 Slot	LDD30	3.0 - 5.0	82	101.5	261	179	215	47
4 Slot	LDD30	3.5 - 5.0	109	128.5	301	210	255	47

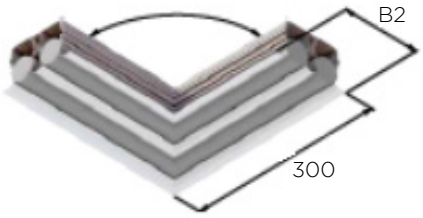
LDD30 Accessories

Easy connection of multiple diffusers in line with serial connection piece

End profile



Corner section
90°



idealair group reserves the right to make changes to product without prior notice.

LINEAR DRUM DIFFUSER
Order Details

idealair group

Standard Order Units

LDD30-1-1165-C-2
LDD30-2-1165-C-2
LDD30-3-1165-C-2
LDD30-4-1165-C-2

Face L.O.A. 1195mm inc. end flanges
RAL 9016
Black elements

LDD30-1-2000-C-2
LDD30-2-2000-C-2
LDD30-3-2000-C-2
LDD30-4-2000-C-2

Face L.O.A. 2030mm inc. end flanges
RAL 9016
Black elements

Special Order Units

Example – To order a 1 slot, 500mm diffuser length, high induction linear diffuser with black discharge elements and Jet Black RAL powder coating.

CODE = LDD30-1-500-C-RAL 9005

LDD30-__-____-__-RAL ___

RAL POWDER COATING
RAL 9003 = Signal White
RAL 9010 = Pure White
RAL 9016 = Traffic White
RAL 9005 = Jet Black
RAL 7035 = Light Grey

DISCHARGE ELEMENT COLOUR
C = Black discharge elements
B = White discharge elements
S = Grey discharge elements

DIFFUSER LENGTH
500mm to 2000mm
in 100mm increments

NUMBER OF SLOTS
1 = Single slot
2 = Two slot
3 = Three slot
4 = Four slot

MODEL
LDD30 = Linear Drum Diffuser

idealair group reserves the right to make changes to product without prior notice.