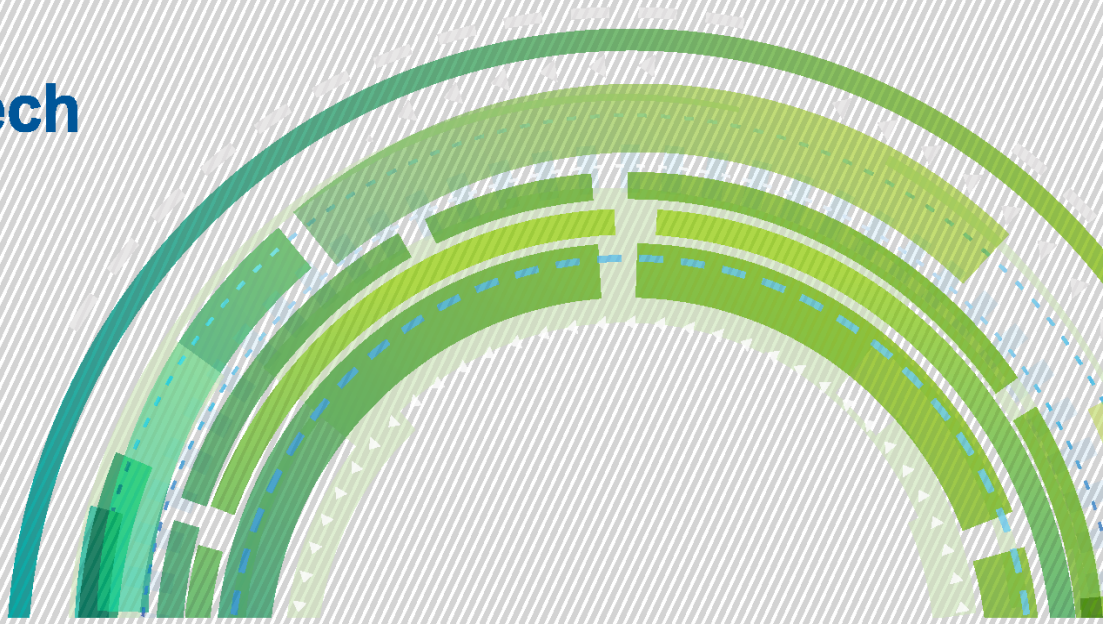


Reetech

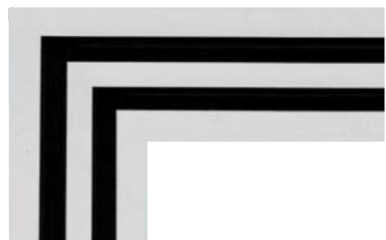


LINEAR SLOT DIFFUSER

LSD-F SERIES

12/2017

LINEAR DIFFUSER



■ **DESCRIPTION:**

Model: LSD-F

Model LSD-F Slot WxH

Depent on Slots

Number of Slot(s)

Application & Installation:

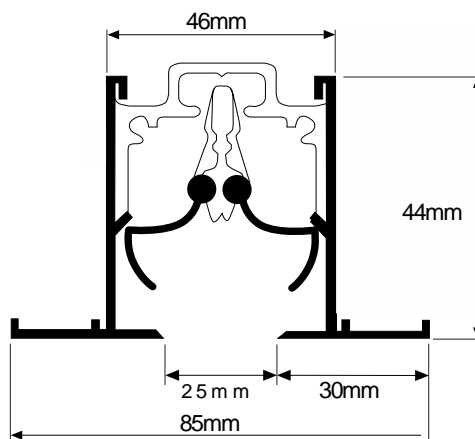
- Application: Supply air & return air terminal device
- Flow pattern: Horizontal or vertical
- Installation: In false ceiling or wall
- Option: GI-plenum box

Material & Structure:

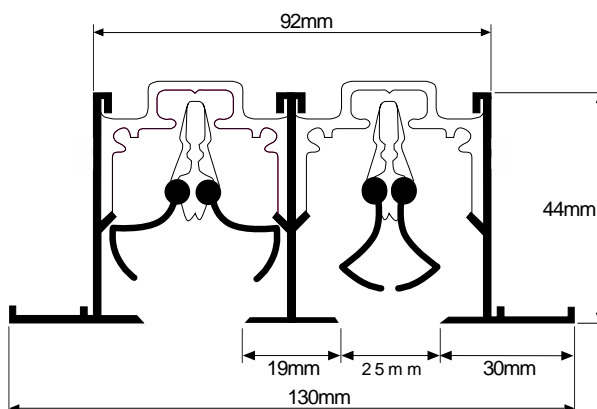
- Material: Aluminum (Powder painted)
- Colour: White RAL 9016 (other colour by request)
- Diffuser face is easily removable for maintenance.

Features:

- Low noise, easy installation & air flow adjustment.
- Designed for sectional or continuous installation
- Deflector can easily be adjusted without special tool ater installation to give many kinds of throw pattern and air volume



1 Slot



2 Slots

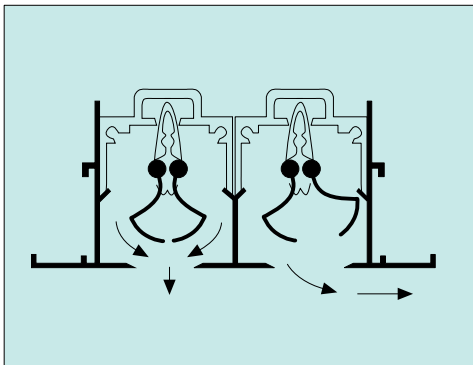
LINEAR DIFFUSER



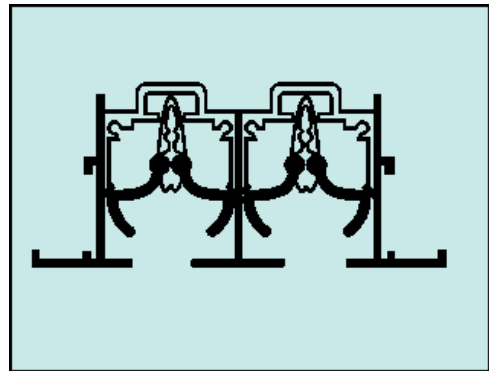
Mounted on air plenum box



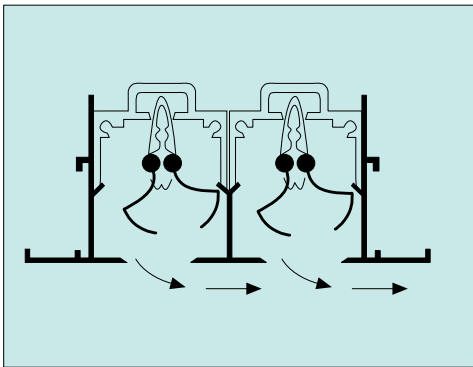
Installation crew hole



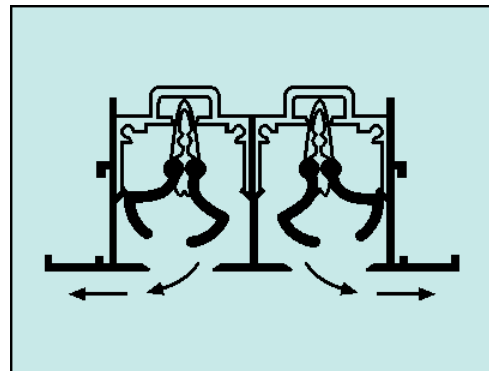
**VERTICAL & HORIZONTAL
AIR FLOW**



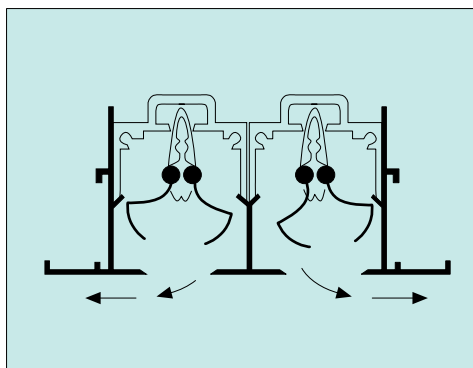
FULLY CLOSE



**ONE WAY
AIR FLOW**



**OPPOSED
AIR FLOW**



**OPPOSED UNEQUAL FLOW
(or ONE SLOT CLOSE)**

TECHNICAL DATA

SLOT(S)	Q	30	40	50	60	70	80	90	100	120	140	160	180	200	225	250	275	300	325	350	375	400		
1	P	2	7.5	14.5	22.5	31.5	41.5	52.5	64.5	91.5	121.5	155												
	NR	-	8	13	18	22	25	28	31	38	44	49												
	L	0.6	1.4	2.2	2.8	3.6	4.2	4.8	5.4	6.2	7	7.6												
2	P		-	-	2	4.5	7.5	11	14.5	22.5	31.5	41.5	52.5	64.5	81									
	NR		-	-	-	11	11	14	16	23	26	29	32	38	42									
	L		0.4	0.8	1.2	1.6	2	2.4	2.8	3.6	4.2	4.8	5.2	5.8	6.2									
3	P			-	-	-	-	2	3.5	7.5	12	17	22.5	28.5	36.5	45	54.5	64.5	75.5	86.5	98.5	111		
	NR			-	-	-	-	-	11	16	19	21	24	26	31	33	36	39	41	45	48	51		
	L			0.4	0.6	1	1.2	1.6	1.8	2.4	3	3.6	4	4.4	4.8	5.2	5.6	5.8	6	6.4	6.4	6.6		
4	P				-	-	-	-	-	2	4.5	7.5	11	14.5	19.5	24.5	30.5	36.5	43	50	57	64.5		
	NR				-	-	-	-	-	11	13	18	20	22	23	27	29	33	35	38	41	43		
	L				0.6	0.6	0.8	1.2	1.4	1.8	2.4	2.8	3.2	3.6	4	4.4	4.6	5	5.2	5.4	5.6	5.8		
5	P					-	-	-	-	-	-	3	5	7.5	11	14.5	18.5	22.5	27	31.5	36.5	41.5		
	NR					-	-	-	-	-	11	14	16	17	22	23	26	28	29	31	33	36		
	L					0.6	0.8	1	1	1.4	1.8	2.2	2.6	3	3.4	3.8	4	4.4	4.6	4.8	5.2	5.4		
6	P							-	-	-	-	-	-	3.5	6	8.5	11.5	14.5	17.5	21	24.5	28.5		
	NR							-	-	-	-	-	11	16	19	21	23	25	28	29	31	32		
	L							0.8	1	1.2	1.6	1.8	2	2.6	3	3.4	3.6	4	4.2	4.4	4.6	4.8		

Performance data is based on 1.2m length

P - Pressure loss [Pa]

NR - Noise rating [dB]

Q - Air volume [l/s]

L - Air throw [m] corresponding to measuring point at velocity 0.5m/s



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R.E.E. Electric Appliances Jsc.

Airflow and Acoustic Research and Development Study of One (1) Linear Slot Diffuser (1-slot) LSD-F Series



Report No. 30U-16-0119-TRP-635360-00

Vipac Engineers & Scientists Ltd
Melbourne, Australia
November 2017



WORLD RECOGNISED
ACCREDITATION

NATA Accredited Laboratory Number: 676.
Accredited for compliance with ISO/IEC 17025 - Testing.
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Page 1 of 11



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3.0 TEST CONDITIONS AND APPLICABLE STANDARDS

3.1 TEST CONDITIONS

The unit under (acoustic) tests was supplied with ambient temperature air at the following conditions:

Air Temperature	20 °C	± 3 °C
Barometric Pressure	101 kPa	± 2 kPa
Relative Humidity	50	± 10 %

3.2 APPLICABLE STANDARDS

The unit was tested at a range of flow conditions, as shown on the Test Certificate.

The test set up was in accordance with ANSI/ASHRAE 70-2008 Standard. Measurements were taken in accordance with the following standards:

ACOUSTICS

AS 1217.2-1985 Acoustics – Determination of sound power levels of noise sources Part 2: Precision methods for broad-band sources in reverberation rooms.

ISO 3741-1999 Acoustics – Determination of sound power levels of noise sources using sound pressure. Precision methods for reverberation rooms.

AIRFLOW

ANSI/ASHRAE 70-2008 – Method of Testing the performance of Air Outlets and Air Inlets

THROW & STATIC PRESSURE DROP

ANSI/ASHRAE 70-2008 – Method of Testing the performance of Air Outlets and Air Inlets

Ref: 30U-16-0119-TRP-635360-0



NATA Accredited
Laboratory
Number: 676

Accredited for compliance with ISO / IEC 17025. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian / national standards.

November 2017

Commercial-in-Confidence

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