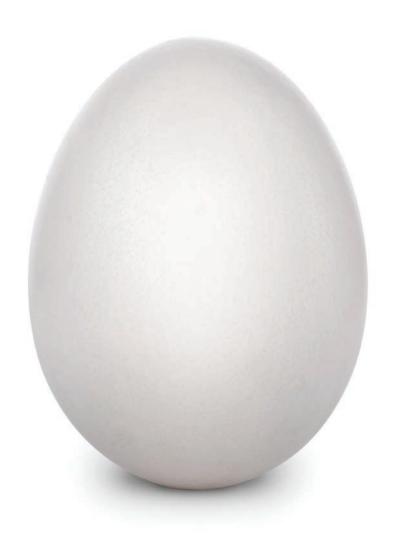
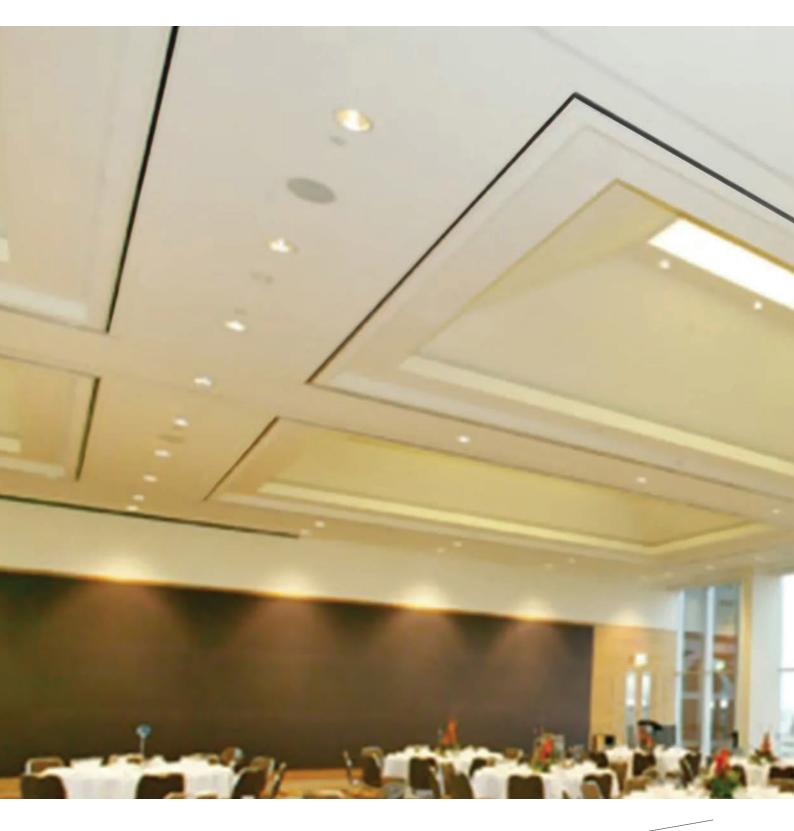
Flangeless Ceiling Slot Diffusers CSDP Series

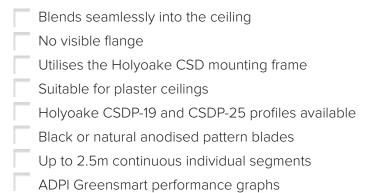
Create the perfect environment

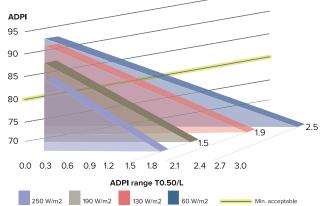
















In cooling mode, diffuser selection should be based on the ratio of the diffusers throw to the length of the zone/ area being supplied, at all design airflow rates, to achieve an acceptable Air Diffusion Performance Index (ADPI). In heating mode, the diffuser to room temperature difference (delta-t) should not exceed 15°C, to avoid excessive temperature stratification.

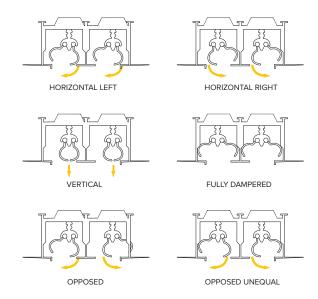
ASHRAE has defined a term for describing the mixing of supply and room air as Air Change Effectiveness, or ACE. This term is used in both ASHRAE Standard 129, the Method of Test for Air Change Effectiveness, and in ASHRAE Ventilation Standard 62.1-2013. When a high ADPI is measured, the ACE is always high as well. Holyoake have simplified ADPI analysis by combining a diffuser's throw performance with a l/s/m² analysis and diffuser spacing to produce an ADPI Performance Envelope graph.





Features

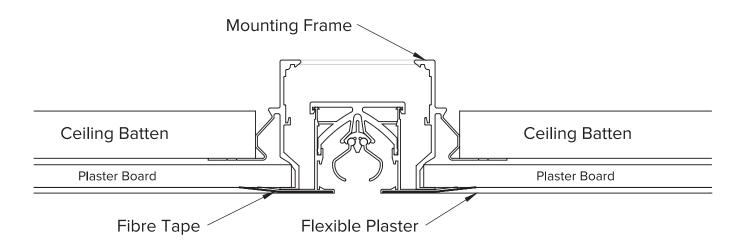
- Available in one to four slots with two slot widths.
- Standard universal pattern control is aluminium, black anodised for best visual effect and can be adjusted to give full 180° control of air pattern, with volume control to shut off.
- Alternative factory set black or white polymer snap-in pattern control provides, at reduced cost, left or right ceiling effect only.
- CSD-MF mounting frame is essential for ease of installation and a high standard of finish.
- For use with diffuser Adapter CSDA/I, plenum supply or linear duct.
- Up to 2.5 metres individual segments. For standard universal pattern control/damper, specify CSDP. For return air application, specify CSDPR. Performance for CSDP and CSDPR may be read from the following supply performance data.



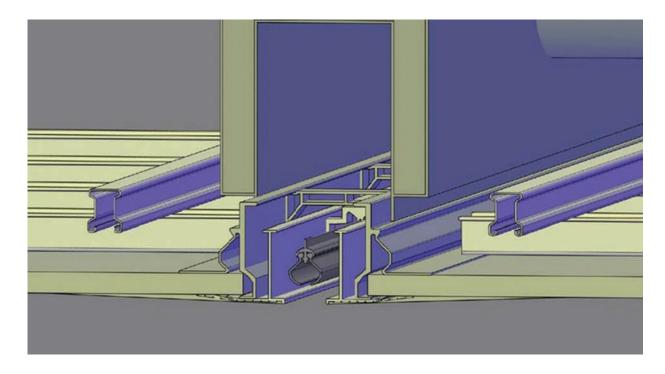


Notes

- 1. The illustration below is a single slot CSDP supply diffuser. Return air assembly Model CSDPR is similar, but with pattern controls deleted.
- 2. Duct dimensions include 20mm clearance on length and 7mm clearance on width (or specify exact length required).
- 3. For more critical applications check overall widths and advise your local Holyoake branch when ordering.



CSDP Series installation



The CSDP mounting frame (CSD-MF) is a base frame which is designed to be built into a solid ceiling. Once the frame has been installed the CSDP is then inserted into this mounting frame.

The CSD-MF offers a vastly improved alternative to the standard method of CSD installation. This system will not only save time for all of the contractors involved (HVAC, ceiling erectors, plasterers etc.) but will also give a much higher standard of finish than was typically able to be achieved. Normally ceiling slot diffusers are one of the most difficult supply diffusers to install into a solid ceiling.

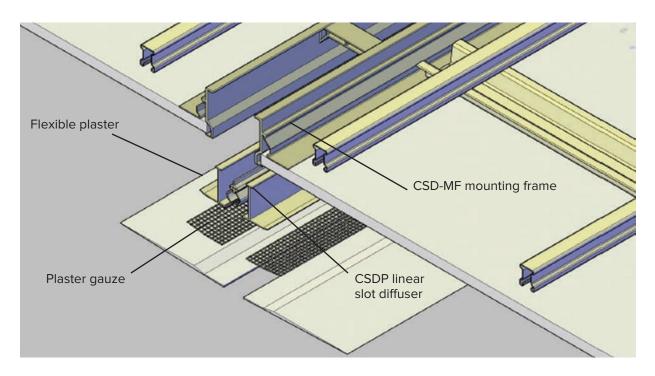
During the process of installation it is not uncommon for both the plasterer and the painter to have to carry out remedial work to ensure a reasonable standard of finish is achieved. All of this work is obviously detrimental as it takes time and often damages the linear diffuser and contributes to the poor overall appearance of the CSDP. The CSD-MF is installed as part of the solid ceiling grid system. This allows the supply air boots to be installed when there is clear access to the ceiling space and there is no danger of damaging the high quality finish of the CSDP. When it is time to line the ceiling, the ceiling erector has a slot to slide the gib or plaster sheet into. The plasterer can now Stop and Fill the ceiling sheets, then the painter is free to paint the entire ceiling.

The CSD-MF has many design features that enable a faultless CSD installation. The mounting frame is equipped with a flexible edge which is fastened to the adjacent steel or wooden ceiling battens, whichever is used. This fexible edge allows for any discrepancies in the ceiling itself. If the flexible edge does not take up any discrepancies in the ceiling, the solid main section of the frame remains rigid to provide an accurate slot for the CSDP. With these features, the use of the CSD-MF will not only save time in installing the CSDP, but will also result in a much higher standard of finish for the project.

The CSD mounting frame (CSD-MF) is a base frame which is designed to be built into a solid ceiling. Once the frame has been installed, the CSDP is then inserted into this mounting frame.

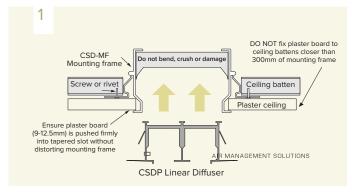


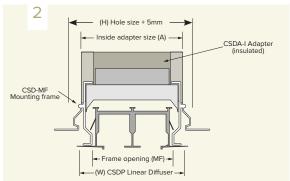
NOTE A flexible plaster product must be used when plastering the diffuser into the ceiling. It is strongly recommended that the joint between the aluminium plaster slot diffuser and the ceiling plaster board is taped with fibre tape prior to plastering.



CSDP Mounting Frame - Series CSD-MF

NOTE Do not fix plaster board to ceiling battens closer that 300mm of the mounting frame. For more detailed instructions please contact your local Holyoake branch.





CSDP-19 AND CSDP-25 DIMENSIONS

		CSD	P-19		CSDP-25						
	Diffuser Flange	Adapter Size	Ceiling Opening	Frame Opening	Diffuser Flange	Adapter Size	Ceiling Opening	Frame Opening			
No. of Slots	W	А	Н	MF	W	А	Н	MF			
1	82	77	107	53	88	83	113	60			
2	120	115	145	92	133	127	157	104			
3	158	153	183	130	177	172	202	149			
4	196	191	221	168	222	216	246	191			

CSDP Series

Model CSDP-T

Thermally operated Ceiling Slot Diffuser

The Holyoake CSDP-T Thermally Operated Ceiling Slot Diffuser is designed to utilise standard CSD Slot Diffuser components, which provide unobtrusive, draftless air distribution over widely ranging airflows.

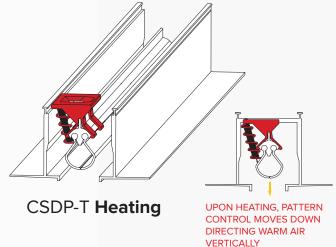
Particularly suited to variable air volume applications and ideal for perimeter supply in major commercial buildings.

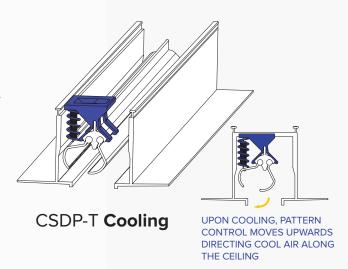
The unique die cast clip attaches to the pattern blades to provide CSD with a thermal control, enabling energy savings to be made and improvements in room comfort levels. Above 24 degrees C the CSDP-T starts to move the pattern position, providing vertical air flow.

On Multi-Slot diffusers CSDP-T is required on the first slot only. Discuss with your local Holyoake branch other options available.

Construction

Extruded aluminium continuous or individual length linear slot diffusers. Utilisiing standard CSDP components and mounting frame, with a specifically designed die cast clip containing a temperature sensitive alloy, for thermal adjustment of the pattern blades.





Features

- Thermal CSDP-T option to give CSD a self-powered thermal control.
- Die cast clip may be retrofitted to existing installations.
- · Operation is controlled by a temperature sensitive alloy.
- Changes the air distribution pattern from horizontal (across ceiling when cooling), to vertical (down to floor in heating).
- · Energy savings and improved comfort levels.
- Enables cost savings to be made.

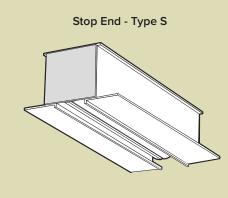
Guide Produ	ct Weights
Model	Approximate Weight Kg
CSD-T Die Cast Thermal Clip	0.05
Add to CSD 19 of 25 Weights*	0.05

Refer to your local Holyoake branch for quantities per specific diffusers.

- 1. Fits all standard CSDP models.
- 2. Use CSDP horizontal and Vertical Performance Data.
- 3. On Multi-Slot diffusers, CSDP-T quantity required, per slot length and any special site requirements.
- 5. Seismic restraints required but not supplied.



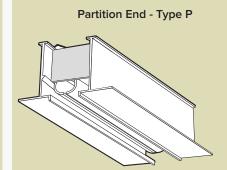
End styles



Stop End - Type S is used where the diffuser terminates at a wall or partition.

Open End - Type O

Open End - Type O is for use when diffuser terminates at a wall or partition, or when the diffuser is to be butted with another diffuser. Also used when field cutting is required.



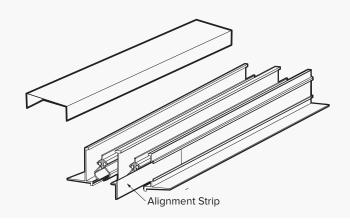
Partition End - Type P is used to separate between active and inactive sections of diffuser when part of a continuous length.

Accessories

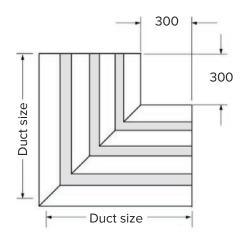
Blanking caps are used to cover inactive sections of diffuser shipped in 1200mm or 2400mm sections for field cutting and installation.

Material: 0.55 galvanised steel, matt black finish.

Alignments strips can be used to assist alignment of continuous diffusers if required.

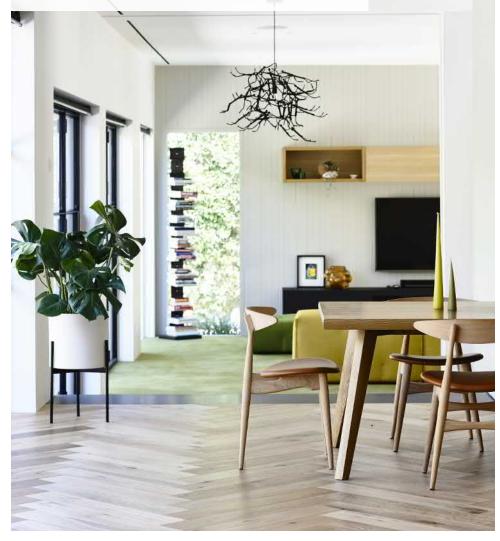


Mitred corners



CSDP Series I One Slot

Aerodynamic performance



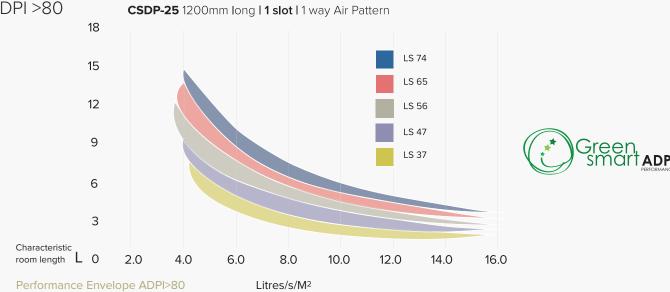
Supply air 19mm 1 Slot Model: CSDP with CSDA Supply Adapters

Ca _l	pacity m³/s		0.038	0.047	0.057	0.066	0.076	0.085	0.094	0.104	0.113
D	4:	Н	1.2-3.4	1.5-3.7	1.8-4.0	2.1-4.0	2.4-4.6	2.7-4.9	3.1-5.2	3.1-5.2	3.1-5.6
Projec	tion, m	V	0.9-1.8	0.9-2.1	1.2-2.4	1.5-2.4	1.5-2.7	1.5-3.1	1.8-3.1	1.8-3.1	1.8-3.4
Nom.	Spread	Н	1.8-4.6	2.1-4.9	2.7-5.8	3.1-6.4	3.7-6.7	4.0-6.7	4.0-7.3	4.6-7.6	4.6-8.2
Length	m	V	1.2-2.4	1.2-2.7	1.5-3.1	1.8-3.1	1.8-3.7	1.8-4.0	2.4-4.0	2.4-4.0	2.4-4.3
0.9m	TP		40	59	89	121	157				
0.9m	NC		27	33	39	44	48				
1 2	TP		22	34	50	68	88	111	135	165	
1.2m	NC		18	24	30	35	39	42	45	48	
1 5 100	TP		12	18	27	36	47	60	72	88	107
1.5m	NC		-	16	22	27	31	34	37	40	43

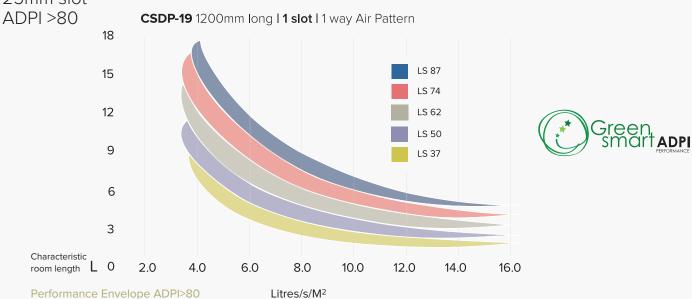
Return air 19mm 1 - 4 Slot Models

SLOTS	Neg. S.P.	2	7	16	27	43	63	86	113
1	m³/s/m	0.015	0.031	0.047	0.062	0.078	0.093	0.109	0.124
•	NC	-	-	18	26	32	37	41	45
2	m³/s/m	0.031	0.062	0.093	0.124	0.155	0.186	0.217	0.248
2	NC	-	-	21	29	35	40	44	48
3	m³/s/m	0.047	0.093	0.140	0.186	0.233	0.279	0.326	0.372
3	NC	-	-	23	31	37	42	46	50
4	m³/s/m	0.062	0.124	0.186	0.248	0.310	0.372	0.434	0.496
4	NC	-	-	24	32	38	43	47	51

19mm slot ADPI >80



25mm slot

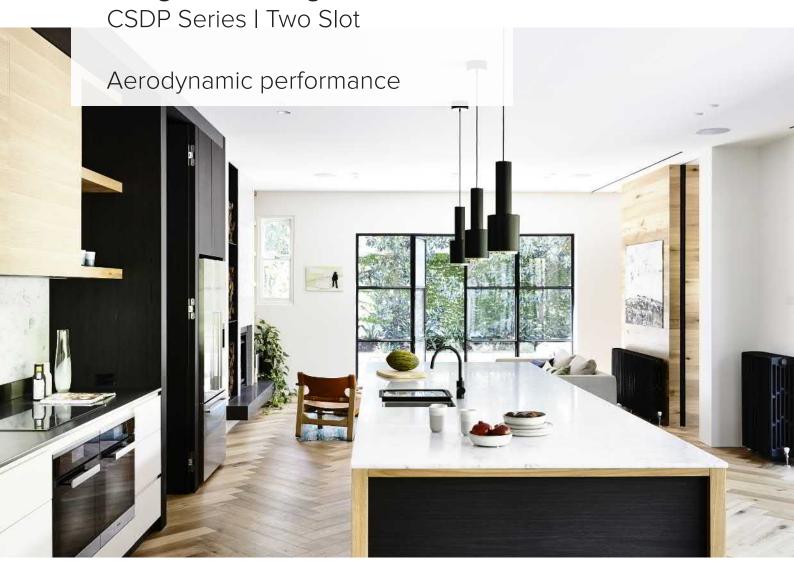


Supply air 25mm 1 Slot Model: CSDP with CSDA Supply Adapters

Ca	pacity m³/s		0.047	0.057	0.066	0.076	0.085	0.094	0.104	0.113	0.123
Durin		Н	1.2-3.4	1.5-3.7	1.8-4.0	2.1-4.3	2.4-4.6	2.7-4.9	3.1-5.2	3.1-5.2	3.1-5.6
Projec	tion, m	V	0.6-1.8	0.9-2.1	0.9-2.1	0.9-2.4	1.2-2.4	1.2-2.7	1.5-2.7	1.5-2.7	1.8-3.1
Nom.	Spread	Н	1.8-4.9	2.1-5.6	2.7-5.8	3.1-6.4	3.7-6.7	4.0-7.3	4.6-7.6	4.6-7.6	4.6-8.2
Length	·m	V	0.9-2.4	1.2-2.7	1.2-2.7	1.2-3.1	1.5-3.1	1.5-3.7	1.8-3.7	1.8-3.7	2.4-4.0
0.9m	TP		42	60	80	105	134	162			
0.9m	NC		28	34	39	42	46	49			
1 200	TP		21	31	42	55	68	83	103	122	
1.2m	NC		19	25	30	33	37	40	43	46	
1.500	TP		13	19	25	33	41	51	61	72	88
1.5m	NC		-	17	22	25	29	32	35	38	40

Return air 25mm 1 - 4 Slot Models

SLOTS	Neg. S.P	5	10	18	27	40	54	70	113
1	m³/s/m	0.031	0.047	0.062	0.078	0.093	0.109	0.124	0.155
'	NC	-	-	19	25	30	34	38	44
2	m³/s/m	0.062	0.093	0.124	0.155	0.186	0.217	0.248	0.310
2	NC	-	-	22	28	33	37	41	47
3	m³/s/m	0.093	0.140	0.186	0.233	0.279	0.326	0.372	0.465
3	NC	-	-	24	30	35	39	43	49
4	m³/s/m	0.124	0.186	0.248	0.310	0.372	0.434	0.496	0.620
4	N C	-	17	25	31	36	40	44	50



Supply air 19mm 2 Slot Model: CSDP with CSDA Supply Adapters

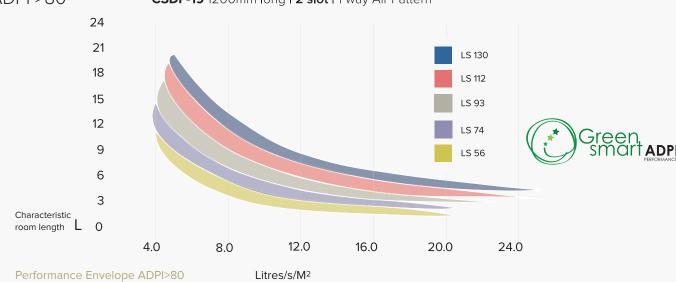
Cai	pacity m³/s		0.061	0.076	0.090	0.104	0.118	0.132	0.146	0.161	0.175
		Н	1.5-3.7	1.8-4.0	2.1-4.3	2.4-4.6	2.7-4.9	3.1-5.2	3.1-5.6	3.4-5.8	3.4-6.1
Projec	tion, m	V	0.6-1.8	0.9-1.8	1.2-2.1	1.2-2.1	1.5-2.4	1.5-2.4	1.5-2.7	1.5-2.7	1.8-3.1
Nom.	Spread	Н	2.1-5.6	2.7-5.8	3.1-6.4	3.7-6.7	4.0-7.3	4.6-7.6	4.6-8.5	4.9-8.5	4.9-9.1
Length	m	V	0.9-2.4	1.2-2.4	1.5-2.7	1.5-2.7	1.8-3.1	1.8-3.1	1.8-3.7	1.8-3.7	2.4-4.0
0.0	TP		24	36	51	67	90	113	136		
0.9m	NC		23	29	35	39	43	47	50		
1.2	TP		13	19	27	36	48	60	71	84	101
1.2m	NC		-	19	25	29	33	37	40	42	45
1.5	TP		9	13	17	23	30	38	47	55	64
1.5m	NC		-	-	19	23	27	31	34	36	39

Return air 19mm 1 - 4 Slot Models

SLOTS	Neg. S.P.	2	7	16	27	43	63	86	113
1	m³/s/m	0.015	0.031	0.047	0.062	0.078	0.093	0.109	0.124
'	NC	-	-	18	26	32	37	41	45
2	m³/s/m	0.031	0.062	0.093	0.124	0.155	0.186	0.217	0.248
2	NC	-	=	21	29	35	40	44	48
3	m³/s/m	0.047	0.093	0.140	0.186	0.233	0.279	0.326	0.372
3	NC	-	=	23	31	37	42	46	50
4	m³/s/m	0.062	0.124	0.186	0.248	0.310	0.372	0.434	0.496
4	NC	-	-	24	32	38	43	47	51

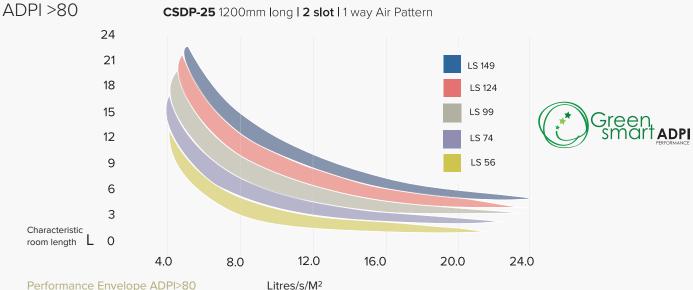
19mm slot ADPI>80

CSDP-19 1200mm long | 2 slot | 1 way Air Pattern



25mm slot

CSDP-25 1200mm long | 2 slot | 1 way Air Pattern



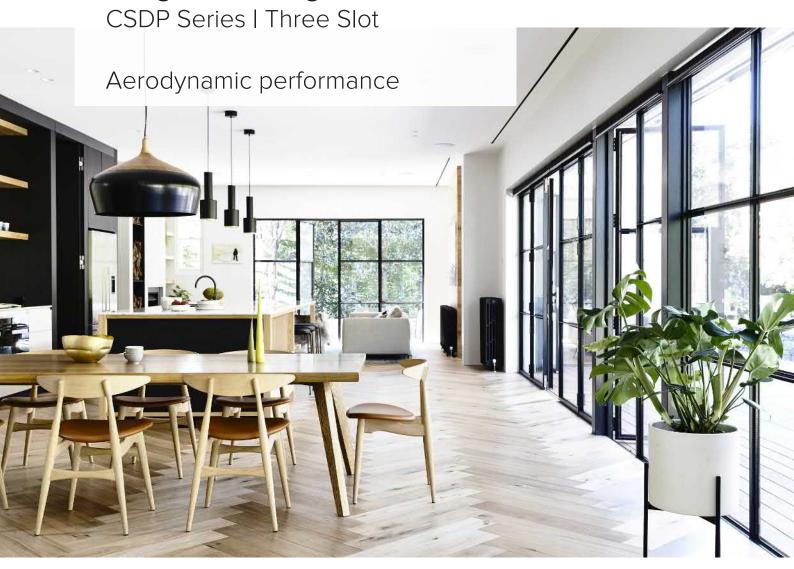
Performance Envelope ADPI>80

Supply air 25mm 2 Slot Model: CSDP with CSDA Supply Adapters

Ca	pacity m³√s		0.076	0.090	0.104	0.118	0.132	0.146	0.161	0.175	0.189
D		Н	1.5-3.7	1.8-4.3	2.1-4.6	2.4-4.9	2.7-5.2	3.1-5.6	3.4-5.6	3.4-5.8	3.4-6.1
Projec	Projection, m		0.6-1.8	0.9-2.1	0.9-2.1	0.9-2.1	1.2-2.4	1.2-2.4	1.5-2.4	1.5-2.7	1.5-2.7
Nom.	Spread	Н	2.1-5.6	2.7-6.7	3.1-6.7	3.7-7.3	4.0-7.6	4.6-8.2	4.9-8.2	4.9-8.5	4.9-9.2
Length	· m	V	0.9-2.4	1.2-2.7	1.2-2.7	1.2-2.7	1.5-3.1	1.5-3.1	1.8-3.1	1.8-3.7	1.8-3.7
0.000	TP		25	36	48	63	80	97	114		
0.9m	NC		24	29	34	37	41	44	46		
1 2	TP		14	19	26	34	42	51	60	70	83
1.2m	NC		-	19	24	27	31	34	36	39	42
1.5	TP		9	12	16	21	26	31	37	44	51
1.5m	NC		-	-	17	20	24	27	29	32	35

Return air 25mm 1 - 4 Slot Models

SLOTS	Neg. S.P	5	10	18	27	40	54	70	113
1	m³/s/m	0.031	0.047	0.062	0.078	0.093	0.109	0.124	0.155
'	NC	-	-	19	25	30	34	38	44
2	m³/s/m	0.062	0.093	0.124	0.155	0.186	0.217	0.248	0.310
2	NC	-	-	22	28	33	37	41	47
2	m³/s/m	0.093	0.140	0.186	0.233	0.279	0.326	0.372	0.465
3	NC	-	-	24	30	35	39	43	49
4	m³/s/m	0.124	0.186	0.248	0.310	0.372	0.434	0.496	0.620
4	NC	-	17	25	31	36	40	44	50



Supply air 19mm 3 Slot Model: CSDP with CSDA Supply Adapters

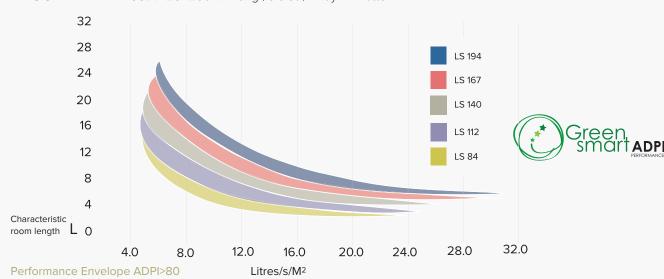
Ca	pacity m³/s		0.076	0.090	0.104	0.118	0.132	0.146	0.160	0.175	0.189
D		Н	1.5-3.7	1.8-4.0	1.8-4.3	2.1-4.6	2.4-4.9	2.7-5.2	3.1-5.6	3.1-5.8	3.4-5.8
Projec	tion, m	V	0.6-1.5	0.9-1.8	0.9-1.8	0.9-2.1	1.2-2.1	1.2-2.4	1.5-2.4	1.5-2.4	1.5-2.7
Nom.	Spread	Н	2.1-5.6	2.7-5.8	2.7-6.4	3.1-6.7	3.7-7.3	4.0-7.6	4.6-8.2	4.6-8.5	4.9-8.5
Length	·m	V	0.9-1.8	1.2-2.4	1.2-2.4	1.2-2.7	1.5-2.7	1.5-3.1	1.8-3.1	1.8-3.1	1.8-3.7
0.0	TP		17	23	31	40	52	63	73	86	101
0.9m	NC		17	23	27	31	35	38	40	42	45
1 2	TP		9	13	17	23	28	34	40	47	54
1.2m	NC		-	-	18	22	26	29	31	33	36
1.5	TP		6	8	11	13	18	22	26	29	34
1.5m	NC		-	-	-	16	20	23	25	27	30

Return air 19mm 1 - 4 Slot Models

SLOTS	Neg. S.P.	2	7	16	27	43	63	86	113
1	m³/s/m	0.015	0.031	0.047	0.062	0.078	0.093	0.109	0.124
'	NC	-	-	18	26	32	37	41	45
2	m³/s/m	0.031	0.062	0.093	0.124	0.155	0.186	0.217	0.248
2	NC	-	-	21	29	35	40	44	48
3	m³/s/m	0.047	0.093	0.140	0.186	0.233	0.279	0.326	0.372
3	NC	-	-	23	31	37	42	46	50
4	m³/s/m	0.062	0.124	0.186	0.248	0.310	0.372	0.434	0.496
4	NC	-	-	24	32	38	43	47	51

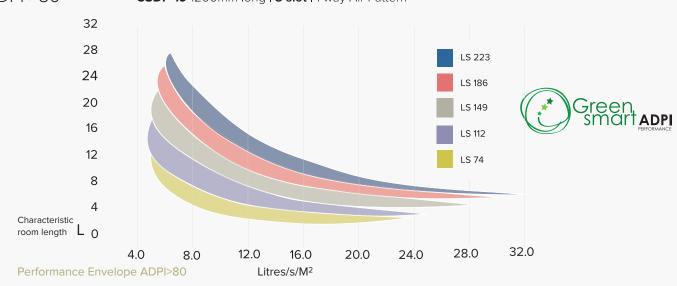
19mm slot ADPI >80

CSDP-25 1200mm long | 3 slot | 1 way Air Pattern



25mm slot ADPI >80

CSDP-19 1200mm long | 3 slot | 1 way Air Pattern



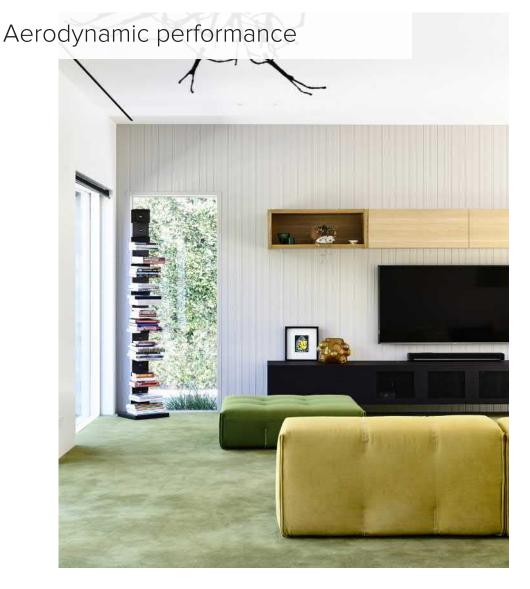
Supply air 25mm 3 Slot Model: CSDP with CSDA Supply Adapters

Ca	Capacity m³/s		0.090	0.104	0.118	0.132	0.146	0.161	0.175	0.189	0.203
Duning	Н		1.5-3.7	1.8-4.3	1.8-4.6	2.1-4.6	2.4-4.9	2.4-5.2	2.7-5.6	3.1-5.6	3.4-5.8
Projec	tion, m	V	0.6-1.8	0.6-1.8	0.9-1.8	0.9-2.1	0.9-2.1	0.9-2.1	1.2-2.4	1.2-2.4	1.2-2.4
Nom.	Spread	Н	2.1-5.6	2.7-6.4	2.7-6.7	3.1-6.7	3.7-7.3	3.7-7.6	4.0-8.2	4.6-8.2	4.9-8.5
Length	m	V	0.9-2.4	0.9-2.4	1.2-2.4	1.2-2.7	1.2-2.7	1.2-2.7	1.5-3.1	1.5-3.1	1.5-3.1
0.9m	TP		16	22	28	35	43	51	60	69	80
0.9m	NC		18	23	26	30	33	36	38	41	43
1 2	TP		9	12	16	19	23	28	32	37	44
1.2m	NC		-	-	-	19	22	25	27	30	32
1.5	TP		6	7	10	12	15	17	20	24	27
1.5m	NC		-	-	-	-	-	18	20	23	25

Return air 25mm 1 - 4 Slot Models

SLOTS	Neg. S.P	5	10	18	27	40	54	70	113
1	m³/s/m	0.031	0.047	0.062	0.078	0.093	0.109	0.124	0.155
'	NC	-	-	19	25	30	34	38	44
2	m³/s/m	0.062	0.093	0.124	0.155	0.186	0.217	0.248	0.310
2	NC	-	-	22	28	33	37	41	47
3	m³/s/m	0.093	0.140	0.186	0.233	0.279	0.326	0.372	0.465
3	NC	-	-	24	30	35	39	43	49
4	m³/s/m	0.124	0.186	0.248	0.310	0.372	0.434	0.496	0.620
4	NC	-	17	25	31	36	40	44	50

CSDP Series I Four Slot



Supply air 19mm 4 Slot Model: CSDP with CSDA Supply Adapters

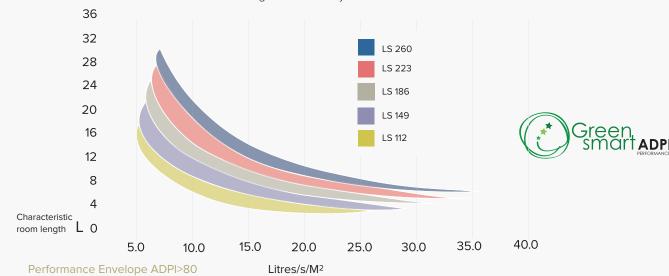
Ca	pacity m³/s		0.094	0.113	0.132	0.151	0.170	0.189	0.208	0.227	0.246
Dunios	Projection, m		1.5-4.0	1.5-4.3	2.1-4.6	2.4-4.9	2.7-5.2	3.1-5.6	3.4-5.8	3.4-6.1	3.7-6.4
Projec	.uon, m	V	0.6-1.8	0.9-1.8	0.9-2.1	1.2-2.1	1.2-2.1	1.2-2.4	1.5-2.4	1.5-2.7	1.5-2.7
Nom.	Spread	Н	2.1-5.8	2.7-6.4	3.1-6.7	3.7-7.3	4.0-7.6	4.6-8.2	4.9-8.5	4.9-9.2	5.6-9.4
Length	·m	V	0.9-2.4	1.2-2.4	1.2-2.7	1.5-2.7	1.5-2.7	1.5-3.1	1.8-3.1	1.8-3.7	1.8-3.7
0.0	TP		15	22	30	38	48	58	69	84	100
0.9m	NC		17	23	28	32	35	38	41	44	46
1 2	TP		8	12	16	20	25	30	36	44	52
1.2m	NC		-	-	18	22	25	28	31	34	36
1.5	TP		5	8	11	13	16	20	24	28	34
1.5m	NC		-	-	-	16	19	22	25	28	30

Return air 19mm 1 - 4 Slot Models

SLOTS	Neg. S.P.	2	7	16	27	43	63	86	113
1	m³/s/m	0.015	0.031	0.047	0.062	0.078	0.093	0.109	0.124
	NC	-	-	18	26	32	37	41	45
2	m³/s/m	0.031	0.062	0.093	0.124	0.155	0.186	0.217	0.248
2	NC	-	-	21	29	35	40	44	48
3	m³/s/m	0.047	0.093	0.140	0.186	0.233	0.279	0.326	0.372
3	NC	-	-	23	31	37	42	46	50
4	m³/s/m	0.062	0.124	0.186	0.248	0.310	0.372	0.434	0.496
4	NC	-	-	24	32	38	43	47	51

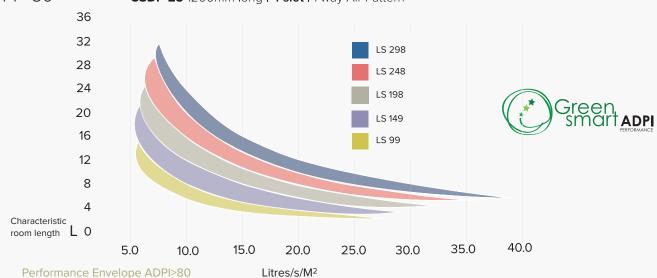
19mm slot ADPI >80

CSDP-19 1200mm long | 4 slot | 1 way Air Pattern









Supply air 25mm 4 Slot Model: CSDP with CSDA Supply Adapters

1-1- 2						1- 1- 7					
	Capacity m³/s		0.113	0.132	0.151	0.170	0.189	0.208	0.227	0.246	0.264
D		Н	1.5-4.3	1.8-4.6	2.1-4.9	2.4-5.2	2.7-5.6	3.1-5.6	3.1-5.8	3.4-6.1	3.7-6.4
Proj	ection, m	V	0.6-1.8	0.6-1.8	0.9-1.8	0.9-2.1	1.2-2.1	1.2-2.4	1.2-2.4	1.5-2.4	1.5-2.7
Nom.	Spread	Н	2.1-6.4	2.7-6.7	3.1-7.3	3.7-7.6	4.0-8.2	4.6-8.2	4.6-8.5	4.9-9.2	5.6-9.4
Length	·m	V	0.9-2.4	0.9-2.4	1.2-2.4	1.2-2.7	1.5-2.7	1.5-3.1	1.5-3.1	1.8-3.1	1.8-3.7
0.9m	TP		15	21	26	33	40	48	57	68	80
0.9m	NC		18	23	26	30	33	36	39	41	44
1 2	TP		8	11	14	17	21	25	30	36	42
1.2m	NC		-	-	-	19	22	25	28	30	33
1.5	TP		6	8	10	12	15	17	21	24	29
1.5m	NC		-	-	-	-	17	20	23	25	28

Return air 25mm 1 - 4 Slot Models

SLOTS	Neg. S.P	5	10	18	27	40	54	70	113
1	m³/s/m	0.031	0.047	0.062	0.078	0.093	0.109	0.124	0.155
'	NC	-	-	19	25	30	34	38	44
2	m³/s/m	0.062	0.093	0.124	0.155	0.186	0.217	0.248	0.310
2	NC	-	-	22	28	33	37	41	47
3	m³/s/m	0.093	0.140	0.186	0.233	0.279	0.326	0.372	0.465
3	NC	-	-	24	30	35	39	43	49
4	m³/s/m	0.124	0.186	0.248	0.310	0.372	0.434	0.496	0.620
4	NC	-	17	25	31	36	40	44	50

CSDP Series - Performance Data

General Notes on performance charts for single or multi slot linear diffusers in this section.

- 1. All pressures are in Pa (N/m2).
- 2. Projection (throw) values in metres are based upon the performance of a one metre long active section. When only 300mm is active, the values are 0.6 times those shown. For a 3 metre long continuous length, the values are 1.8 times those shown. See table below:

Length mm	300	400	500	600	700	800	900	1000	1200	1500	1800	2000	2400	3000
Correction Factor	0.6	0.66	0.72	0.8	0.84	0.9	0.96	1	1.08	1.2	1.32	1.4	1.56	1.8

 \mbox{H} : Horizontal projection : Minimum is to a terminal velocity of 0.75m/s and maximum to 0.25m/s. \mbox{V} : Vertical projection is to a terminal velocity of 0.25m/s.

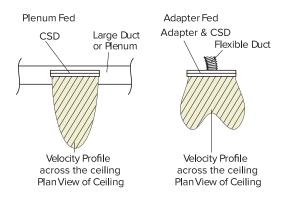
- 3. Spread is the maximum width of the jet defined by the above velocities.
- 4. N.C. values are based upon horizontal projection from a three metre active section and a room absorption of 10dB re 10-12 watts. Vertical projection values are 11dB less than listed.
- 5. N.C. correction for length:

Length mm	300	600	1000	1200	1800	2400	3000	4500	6000	7500	9000
Supply	-16	-11	-7	-6	-3	-2	0	+3	+5	+6	+8
Return	-10	-7	-5	-4	-2	-1	0	+2	+3	+4	+5

- 6. Figures for plenum fed diffusers are for essentially zero inlet velocity.

 The velocity profile is relatively uniform for the length of the active section.
- 7. Figures for adapter fed diffusers take account of the effect of the adapter and inlet neck on diffuser velocities which tend to be less uniform and produce a velocity profile of the shape shown in the Velocity-Throw diagram below. The 0.25m/s isovel generally shows a projection reduction at the centre of approximately 25%.

Typical Plenun and Adapter Fed Velocity Profiles



Typical Throw envelopes for CSDA adapter fed CSD section

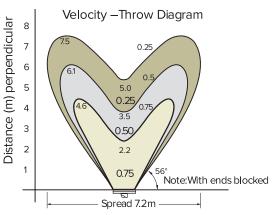
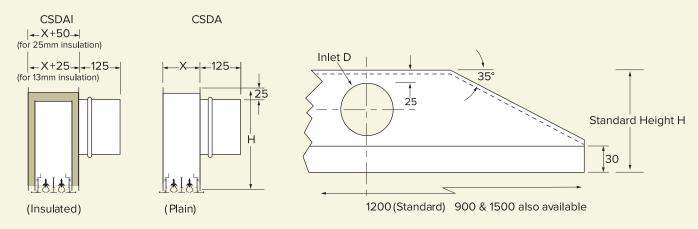


Diagram shows isovel envelopes for CSD19 x2 slot x 1000mm @ 118m³/s

CSDP Series - Adapters

CSDA Adapters



CSDA Dimensions

		CSD-19			CSD-25	
	D	Н	Х	D	Н	X
1	100	195	53	125	220	60
2	125	245	92	150	245	104
3	150	270	130	200	295	149
4	175	295	168	200	195	191

Guide Weights					
CSDA	CSDAI				
1200	1200				
4.78	5.08				

Notes

- 1. For sizes other than shown Standard Height H = inlet Diameter +100
- 2. Construction details may vary*
- 3. Premi-aire™ versions available*
 - * Please check with your local Holyoake branch



H & M the Swedish apparel chain opens in the Queen Street Mall, 170 Queen Street, Brisbane.

The new store features Holyoake CSDP Flangeless, Integrated Linear Slot Diffuser.

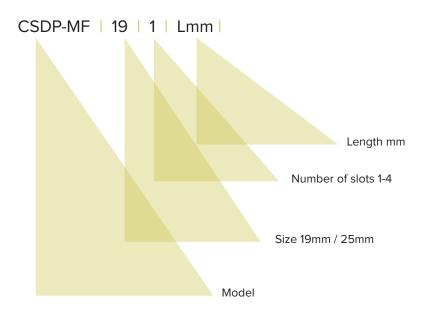






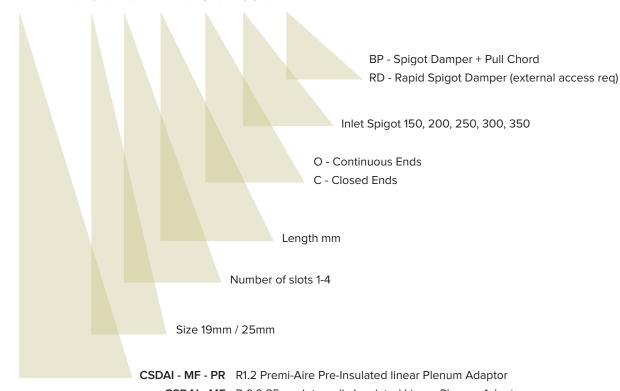


CSDP Series - Nomenclature



CSDA Adaptor - Nomenclature

CSDAI-MF-PR | 19 | 1 | Lmm | O | 200 | BP



CSDAI - MF R 0.6 25mm Internally Insulated Linear Plenum Adaptor

CSDA - MF Plain Sheetmetal Linear Plenum Adaptor

Due to a policy of continuous development and improvement the right is reserved to supply products which may differ slightly from those illustrated and described in this publication.



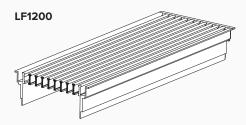
Related Products

Linear Flow DiffusersLF 1200 Series

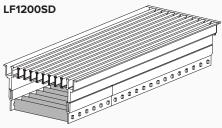
CONTINUOUS LINEAR DIFFUSER

Flangeless installation
Single piece aluminium construction
Mitred corners in both planes
100 | 150 | 200 available widths
Designed for use in the patented Holyoake

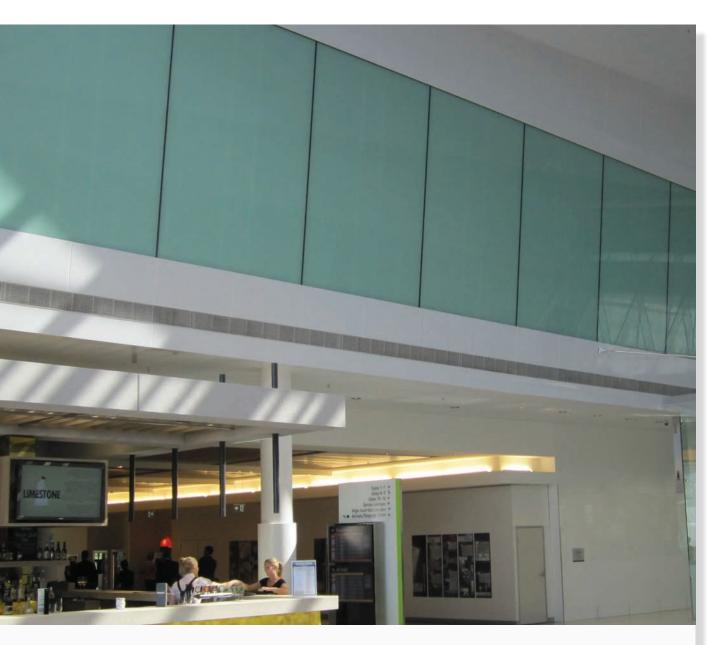


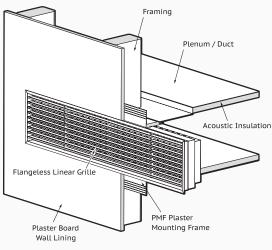


The LF1200 Linear Flow Diffuser is a one piece diffuser which can be supplied in any desired length continuous up to 5m. The Linear Flow Diffuser has been specifically designed to be used in conjunction with the Holyoake Plaster Mounting Frame (PMF) system.



Ideally suited to apartment and hotel room projects, the LF1200SD Linear Flow Diffuser combines fixed linear flow bars at the fascia with adjustable rear single deflection airfoil blades, allowing control of the supply air laterally. This lateral air adjustment allows you to control the spread and depth of throw.





Plaster Mounting Frame

The Holyoake Flangeless Diffuser Series - PMF, has been developed to keep pace with contemporary interior designs.

The PMF is versatile and can be used with all LD and LF Series Linear Bar Diffusers.

Designed for sidewall applications the PMF Series Flangeless Frame Diffusers are the least intrusive sidewall supply or return air product on the market.

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