



LINEAR SLOT DIFFUSERS



CONSTRUCTION:

Frame & Blades: High quality extruded aluminium profiles.

Frame width: 30 mm standard. 20 mm also available

D a m p e r : Hit and miss damper.

Slot width: 20 mm as standard. 16 mm, 25 mm

and non standard sizes available as option.

Number of slots available: 1, 2, 3, 4, 5, 6, 7, 8.

Length : Up to 5.8 mt available in a single piece

Optional accessories: Plenum box either un lined, internally insulated or externally insulated.

Description:

- Frame and deflection blades are made of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.

- Air distribution can be changed vertically or horizontally by means of deflection blades without changing the air flow rate. These blades can be fully adjusted from face opening.

- Air flow rate can be adjusted by fixing hit and miss damper at the rear side of the diffuser. Damper blades are adjusted from the face opening.

- Dampers are designed in a unique way that it can be used as an equalizing grid.

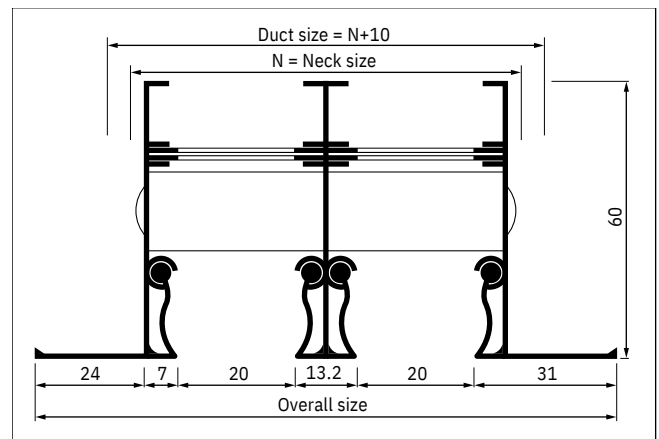
- Positive alignment of adjacent sections can be made by using alignment strips.

- Suitable for installation for ceiling and sills.

- Foam gasket sealed around the back of the frame to avoid air leakage.

Standard finishes:

- Natural anodized aluminium finish.
- Powder coated colour finish as per RAL colour code.
- Flexibility of finish available.



CONSTRUCTION:

Frame & Blades: High quality extruded aluminium profiles.

Frame width: 30 mm standard. 20 mm also available.

D a m p e r : Hit and miss damper.

Slot width: 20 mm as standard. 16 mm, 25 mm

and non standard sizes available as option.

Number of slots available: 1, 2, 3, 4, 5, 6, 7, 8.

Length : Up to 5.8 mt available in a single piece

Optional accessories: Plenum box either un lined, internally insulated or externally insulated.

Description:

- Frame and deflection blades are made of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.

- Positive alignment of adjacent sections can be made by using alignment strips that are provided with each diffuser.

- Structure is manufactured by mechanical assembly to ensure rigidity and straight line appearance.

- Available with out hit and miss damper as standard. Damper will be provided as option.

- Suitable for installation into ceiling and sills.



Duct size = N+10
N = Neck size

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Standard finishes:

- Natural anodized aluminium finish.
- Powder coated colour finish as per RAL colour code.
- Flexibility of finish available.

24 7 20 13.2 20 31
Overall size



For 30 mm flange width:

• 16 mm slot opening

No. of slots	1	2	3	4	5	6	7	8
Neck size in mm	3	65	96	128	159	190	221	252
Duct size in mm	4	75	10	138	169	200	231	262
Overall size	4	11	6	174	205	236	267	298

• 20 mm slot opening

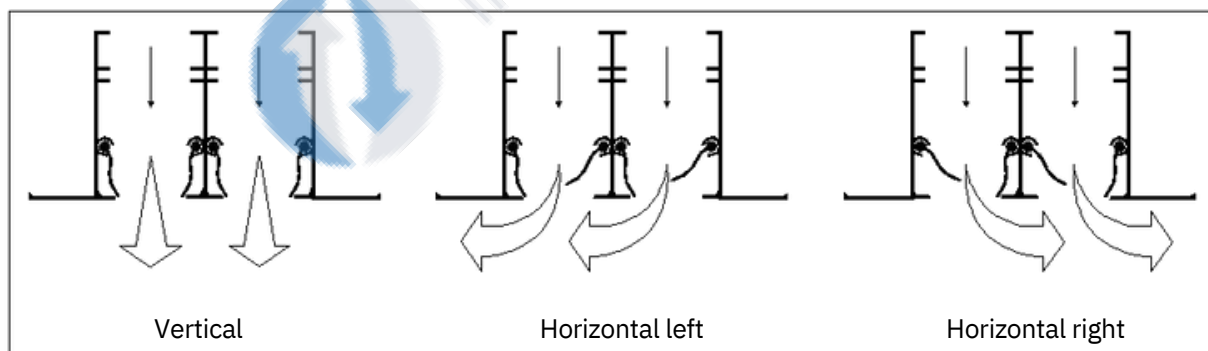
No. of slots	1	2	3	4	5	6	7	8
Neck size in mm	3	71	105	140	174	208	242	276
Duct size in mm	7	81	115	150	184	218	252	286
Overall size	4	11	151	185	220	254	288	322

• 25 mm slot opening

No. of slots	1	2	3	4	5	6	7	8
Neck size in mm	4	81	120	160	199	238	277	316
Duct size in mm	2	91	130	170	210	248	287	326
Overall size	5	12	166	205	245	284	323	362

- For 20 mm flange width, overall size must be reduced by 20 mm.
- For Curved slot diffuser, please increase the wall/ceiling slot 6 mm.

Possible air deliveries



CONSTRUCTION:

Frame & Blades: High quality extruded aluminium profiles.

Frame width: 30 mm standard. 20 mm also available.

D a m p e r : Hit and miss damper.

Slot width: 20 mm as standard. 16 mm, 25mm and non standard sizes available as option.

Number of slots available: 1, 2, 3, 4, 5, 6, 7, 8.

Length: Up to 3 mt available in a single piece.

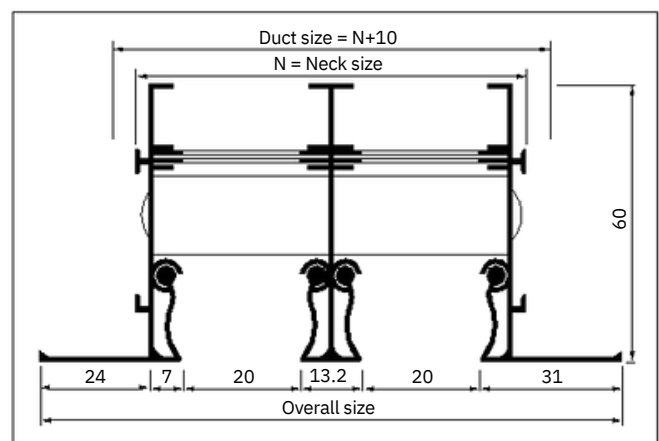
Description:

- Frame and deflection blades are made of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Hit and miss damper will be fixed rigidly at the rear side of the diffuser as option.
- Positive alignment of adjacent sections can be made by using alignment strips.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Suitable for installation in ceiling and sills.
- Supply and return air curved linear slot diffusers are available up to a length of 3 meters with a minimum radius of curvature of 1 meter.
- Standard application on the ceiling.

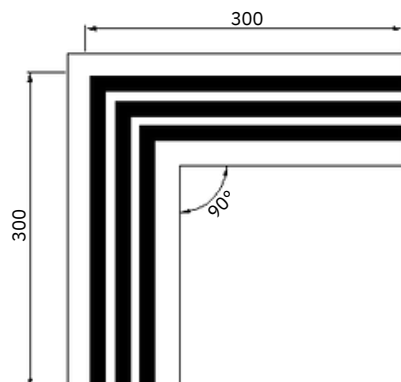
Model: ARLD(C): Same as ASLD(C), without hit and miss damper.

Standard finishes:

- Natural anodized aluminium finish.
- Powder coated colour finish as per RAL colour code.
- Flexibility of finish available.

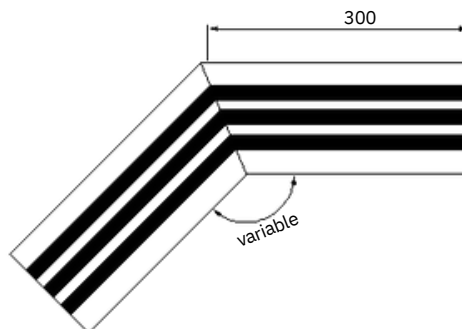


Optional mitered corners:



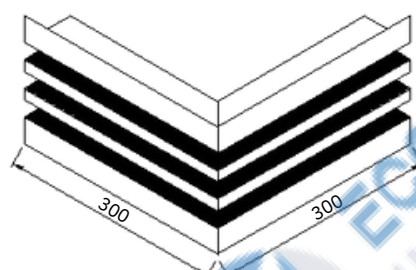
7 a. 90° Mitered corner

Standard 90° horizontal mitered corners available for floor, sill and ceiling applications.



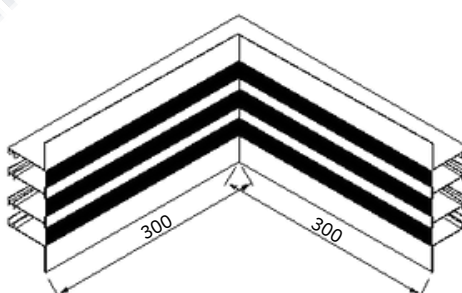
7 b. Variable mitered corner

Special horizontal mitered corners selection available for floor, sill and ceiling applications includes an angle greater than 90° and less than 180°.



7 c. Side wall - outside corner

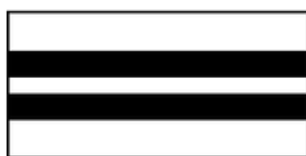
Vertical outside mitered corners are available for wall application at the junction of two outside walls with a standard angle of 90°.



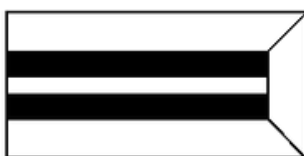
7 d. Side wall - inside corner

Vertical inside mitered corners are available for wall application at the junction of two inside walls with a standard angle of 90°.

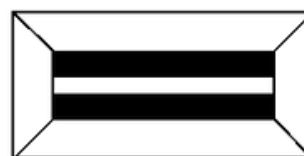
Flange models:



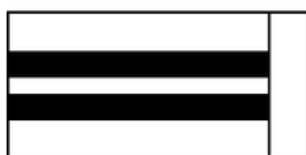
With open ends



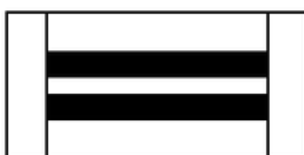
With one side flange



With both side flange

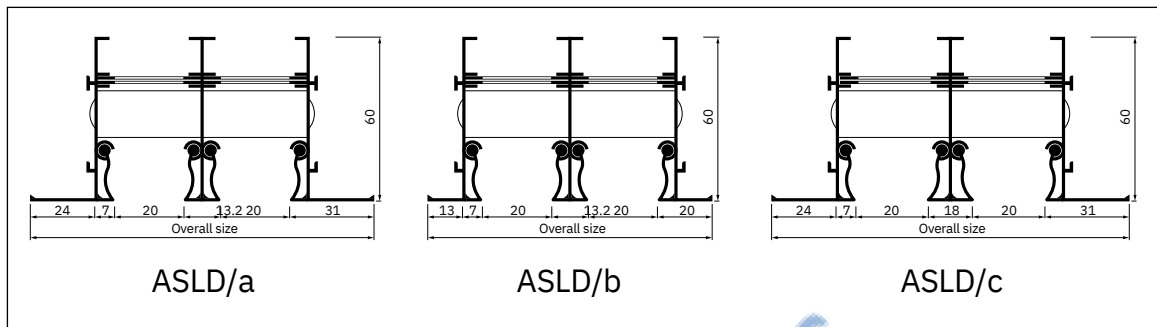


With one side end cap



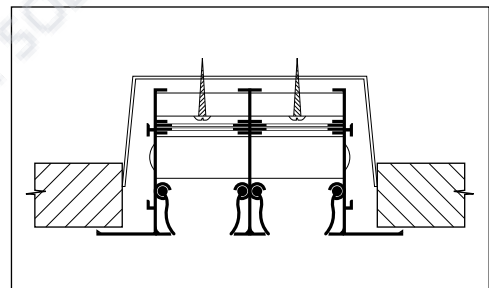
With both side end cap

Optional profiles



Fixing details

• C-Clamp fixing



• Fixing to the plenum box

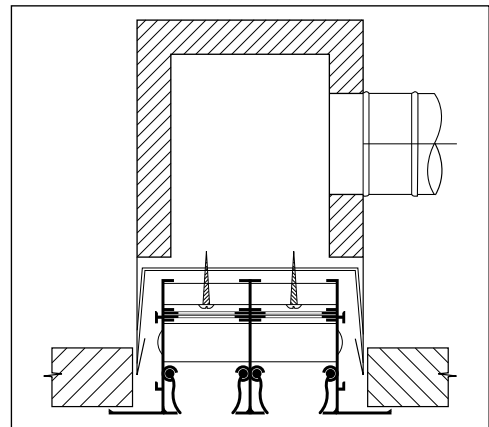


Table 7.1 Air flow data

Number of slots	Air flow rate per meter length		Face Velocity m/sec	Throw in meters	P _s in mm H ₂ O	Noise Criteria (NC)
	Cfm m3/sec					
A n 2 k i m 1 0.0092	50	0.024	2.61	3.6 - 2.1 - 0.6	0.65	<15
	75	0.035	3.80	4.9 - 3.0 - 1.8	1.44	18
	100	0.047	5.11	6.1 - 4.3 - 2.7	2.55	30
	125	0.059	6.41	7.0 - 4.9 - 3.7	3.97	35
	150	0.071	7.72	7.6 - 5.8 - 4.6	4.37	38
	175	0.083	9.02	8.5 - 6.7 - 5.2	6.12	41
2 0.018	100	0.047	2.61	4.3 - 2.4 - 0.6	0.97	<15
	125	0.059	3.28	5.2 - 3.0 - 1.5	1.47	20
	150	0.071	3.94	6.1 - 3.9 - 2.1	2.12	28
	175	0.083	4.61	6.7 - 4.6 - 3.0	2.87	30
	200	0.094	5.22	7.0 - 5.2 - 4.3	3.73	33
	250	0.118	6.55	7.9 - 6.1 - 4.9	5.78	39
3 0.028	125	0.059	2.11	4.2 - 2.2 - 0.7	0.86	<15
	150	0.071	2.53	4.9 - 2.9 - 1.4	1.21	18
	200	0.094	3.36	5.5 - 3.7 - 2.4	2.17	25
	225	0.106	3.78	6.5 - 4.4 - 3.3	2.73	29
	250	0.118	4.21	7.6 - 5.3 - 4.0	3.34	34
	300	0.142	5.07	8.6 - 6.2 - 4.7	4.37	37
4 0.0372	150	0.071	1.91	4.6 - 2.7 - 1.1	0.72	<15
	200	0.094	2.53	5.4 - 3.6 - 2.0	1.39	21
	250	0.118	3.17	6.1 - 4.5 - 3.1	1.98	25
	300	0.142	3.82	6.7 - 5.2 - 3.9	2.85	30
	350	0.165	4.43	7.9 - 5.6 - 4.5	3.84	35
	400	0.189	5.08	8.8 - 6.7 - 5.2	4.51	38

- Data based on one meter length of the diffuser with damper fully opened.
- Face velocity is measured in m/sec.
- P_s: Static pressure loss is in mm of H₂O, Area factor in square meters.
- Throw (meters) is measured for terminal velocities of 0.25, 0.5 & 0.75 m/s
- ec. • NC based on a room attenuation of 10 dB.

Table 7.1(cont.) Air flow data

Numb er of slots	Air flow rate per meter length		Face Velocity m/sec	Throw in meters	P s in mm H 2O	Noise Criter ia (NC)
	Cfm m3/sec					
Ain 2 k m 5 0.0465	250	0.118	2.54	5.8 - 4.3 - 2.7	1.43	22
	300	0.142	3.05	6.4 - 4.9 - 3.6	1.89	24
	350	0.165	3.55	6.8 - 5.3 - 3.7	2.79	29
	400	0.189	4.06	7.7 - 5.5 - 4.1	3.78	34
	450	0.213	4.58	8.5 - 5.9 - 4.7	4.25	35
	500	0.236	5.07	9.1 - 6.3 - 5.2	4.72	38
6 0.056	300	0.142	2.53	6.1 - 4.3 - 2.9	1.51	22
	350	0.165	2.95	6.6 - 5.2 - 3.9	1.64	24
	400	0.189	3.37	7.3 - 5.5 - 4.3	2.33	28
	450	0.213	3.80	7.6 - 5.8 - 4.6	3.21	31
	500	0.236	4.21	8.2 - 6.1 - 4.8	3.91	35
	600	0.283	5.05	9.2 - 6.7 - 5.3	4.78	40
7 0.065	350	0.165	2.54	6.1 - 4.3 - 2.9	1.62	22
	400	0.189	2.91	6.7 - 5.1 - 3.8	1.72	25
	450	0.213	3.28	7.0 - 5.3 - 4.0	2.33	28
	500	0.236	3.63	7.4 - 6.2 - 4.7	3.18	30
	600	0.283	4.35	8.6 - 6.7 - 5.0	4.10	36
	700	0.331	5.09	9.4 - 7.2 - 5.6	4.82	40
8 0.076	400	0.189	2.49	6.1 - 4.6 - 3.7	1.66	22
	450	0.213	2.80	6.7 - 5.1 - 3.8	1.72	25
	500	0.236	3.10	7.1 - 5.6 - 4.3	2.34	29
	600	0.283	3.72	7.6 - 6.4 - 4.7	3.24	31
	700	0.331	4.35	8.8 - 7.2 - 5.4	4.20	37
	800	0.378	4.97	9.7 - 7.8 - 5.9	4.83	40

- Data based on one meter length of the diffuser with damper fully opened.
- Face velocity is measured in m/sec.
- P_s: Static pressure loss is in mm of H₂O, Area factor in square meters.
- Throw (meters) is measured for terminal velocities of 0.25, 0.5 & 0.75 m/s ec.
- NC based on a room attenuation of 10 dB.

Table 7.2 Air flow data

Number of slots	Air flow rate per meter length		Face Velocity m/sec	Throw in meters	P _s in mm H ₂ O	Noise Criteria (NC)
	Cfm	m3/sec				
An 2 k i m 1 0.0116	75	0.035	3.02	5.3 - 3.2 - 1.9	0.78	16
	100	0.047	4.05	6.6 - 4.6 - 2.8	1.53	25
	125	0.059	5.09	7.7 - 5.3 - 3.9	2.53	29
	150	0.071	6.12	8.4 - 6.3 - 4.8	3.79	33
	175	0.083	7.15	9.4 - 7.2 - 5.5	4.05	36
	200	0.094	8.10	10.5 - 8.2 - 6.1	5.49	40
2 0.0234	125	0.059	2.52	5.6 - 3.2 - 1.6	0.94	<15
	150	0.071	3.03	6.6 - 4.1 - 2.2	1.36	17
	175	0.083	3.55	7.4 - 5.0 - 3.2	1.91	24
	200	0.094	4.02	7.7 - 5.6 - 4.5	2.13	28
	250	0.118	5.04	8.8 - 6.6 - 5.2	2.75	34
	300	0.142	6.07	10.0 - 7.9 - 6.0	3.93	39
3 0.035	150	0.071	2.03	4.9 - 2.9 - 1.2	0.83	<15
	200	0.094	2.68	5.6 - 3.6 - 2.2	1.28	17
	225	0.106	3.03	6.9 - 4.3 - 3.3	1.96	22
	250	0.118	3.37	7.7 - 5.3 - 3.9	2.13	27
	300	0.142	4.06	8.8 - 6.3 - 4.6	2.73	32
	350	0.165	4.71	10.0 - 7.4 - 5.2	3.71	36
4 0.048	400	0.189	5.40	10.6 - 7.9 - 5.6	4.15	40
	200	0.094	1.96	5.6 - 3.6 - 1.9	0.72	<15
	250	0.118	2.46	6.3 - 4.3 - 2.8	1.39	17
	300	0.142	2.96	7.0 - 4.9 - 3.6	1.92	22
	350	0.165	3.44	7.7 - 5.5 - 4.2	2.64	28
	400	0.189	3.94	8.7 - 6.6 - 4.9	2.97	32
	450	0.213	4.44	9.5 - 7.2 - 5.4	3.42	35
	500	0.236	4.92	10.0 - 7.7 - 6.0	4.18	38
	550	0.26	5.42	10.9 - 8.4 - 6.5	4.63	41

- Data based on one meter length of the diffuser with damper fully opened.
- Face velocity is measured in m/sec.
- P_s: Static pressure loss is in mm of H₂O. Area factor in square meters.
- Throw (meters) is measured for terminal velocities of 0.25, 0.5 & 0.75 m/s ec.
- NC based on a room attenuation of 10 dB.

Table 7.2(cont.) Air flow data

Number of slots	Air flow rate per meter length		Face Velocity m/sec	Throw in meters	P _s in mm H ₂ O	Noise Criteria (NC)
	Cfm m3/sec					
A n 2 k i m 5 0.058	300	0.142	2.45	6.6 - 4.5 - 3.5	1.42	17
	350	0.165	2.84	6.9 - 4.9 - 3.6	2.17	23
	400	0.189	3.26	7.4 - 5.2 - 3.9	2.72	26
	450	0.213	3.67	8.0 - 5.9 - 4.5	3.14	31
	500	0.236	4.07	8.8 - 6.7 - 5.2	3.68	33
	550	0.260	4.48	9.6 - 7.5 - 5.8	4.10	36
	600	0.283	4.88	10.6 - 8.4 - 6.6	4.46	38
	650	0.307	5.29	11.6 - 8.8 - 7.1	4.73	41
	700	0.331	5.69	12.6 - 9.1 - 7.4	5.13	43
6 0.071	350	0.165	2.32	6.9 - 5.2 - 3.8	1.49	17
	400	0.189	2.66	7.6 - 5.6 - 4.2	1.84	21
	450	0.213	3.0	8.0 - 5.9 - 4.5	2.21	24
	500	0.236	3.32	8.8 - 6.3 - 4.9	2.94	28
	600	0.283	3.98	9.2 - 6.8 - 5.2	3.69	32
	700	0.331	4.66	10.7 - 8.4 - 6.5	4.26	37
	800	0.378	5.32	12.0 - 9.1 - 7.4	5.13	41
	900	0.425	6.0	13.3 - 9.2 - 7.3	6.0	43
	1000	0.472	6.75	14.6 - 9.6 - 7.8	7.0	45
7 0.082	450	0.213	2.60	7.8 - 5.9 - 4.5	1.93	22
	500	0.236	2.88	7.9 - 6.2 - 4.7	2.23	24
	600	0.283	3.45	9.0 - 6.6 - 5.3	3.14	29
	700	0.331	4.04	9.6 - 7.1 - 5.6	3.97	34
	800	0.378	4.61	11.0 - 8.9 - 7.0	4.47	38
	900	0.425	5.18	12.2 - 9.4 - 7.5	5.34	42
	1000	0.472	5.75	13.3 - 9.2 - 7.3	6.0	43
	1100	0.519	6.32	14.6 - 9.6 - 7.8	7.0	45
	1200	0.566	6.9	15.8 - 10.1 - 8.3	8.0	47
8 0.094	600	0.283	3.01	8.5 - 6.3 - 5.0	3.05	18
	700	0.331	3.52	9.3 - 6.8 - 5.5	3.18	28
	800	0.378	4.02	9.8 - 7.4 - 6.0	4.12	31
	900	0.425	4.52	11.3 - 9.2 - 7.3	4.63	35
	1000	0.472	5.02	12.5 - 9.6 - 7.8	5.34	39
	1100	0.519	5.5	13.3 - 9.2 - 7.3	6.0	43

- Data based on one meter length of the diffuser with damper fully opened.
- Face velocity is measured in m/sec.
- P_s: Static pressure loss is in mm of H₂O. Area factor in square meters.
- Throw (meters) is measured for terminal velocities of 0.25, 0.5 & 0.75 m/s ec.
- NC based on a room attenuation of 10 dB.

Table 7.3 Air flow data

Number of slots	Air flow rate per meter length		Face Velocity m/sec	Throw in meters	P _s in mm H ₂ O	Noise Criter ia
	Cfm m3/sec					
A n 2 k i m 1 0.0072	30 0.014		1.94	2.5 - 1.5 - 0.4	0.51	(NC)
	50 0.024		3.33	4.1 - 2.5 - 1.4	1.34	<15
	75 0.035		4.86	5.6 - 3.8 - 2.3	2.62	18
	100 0.047		6.53	6.8 - 4.7 - 3.3	4.41	29
	125 0.059		8.19	7.4 - 5.0 - 3.8	5.10	36
	150 0.071		9.86	8.1 - 5.8 - 4.4	7.42	40
2 0.014	50 0.024		1.71	3.0 - 1.6 - 0.6	0.65	43
	75 0.035		2.50	3.7 - 2.0 - 0.9	1.19	<15
	100 0.047		3.36	4.3 - 2.5 - 1.3	1.95	17
	125 0.059		4.21	5.3 - 3.7 - 1.9	2.83	21
	150 0.071		5.07	6.2 - 4.4 - 2.8	3.95	29
	200 0.094		6.71	7.3 - 4.9 - 3.5	6.57	33
3 0.021	100 0.047		2.24	3.5 - 1.9 - 0.8	0.96	41
	125 0.059		2.81	3.9 - 2.2 - 1.1	1.42	17
	150 0.071		3.38	4.9 - 2.8 - 1.7	2.36	21
	175 0.083		3.95	5.3 - 3.4 - 2.1	3.11	25
	200 0.094		4.48	5.9 - 3.9 - 2.4	3.91	30
	250 0.118		5.62	6.9 - 5.2 - 3.3	5.38	36
4 0.028	125 0.059		2.11	3.6 - 2.0 - 0.9	0.84	39
	150 0.071		2.53	3.9 - 2.3 - 1.3	1.49	17
	175 0.083		2.96	4.4 - 3.1 - 1.9	2.0	22
	200 0.094		3.36	5.2 - 3.4 - 2.2	2.73	25
	250 0.120		4.28	5.9 - 4.1 - 2.7	4.03	29
	300 0.142		5.07	6.4 - 4.9 - 3.2	5.0	34
						38

- Data based on one meter length of the diffuser with damper fully opened.
- Face velocity is measured in m/sec.
- P_s: Static pressure loss is in mm of H₂O. Area factor in square meters.
- Throw (meters) is measured for terminal velocities of 0.25, 0.5 & 0.75 m/sec.
- NC based on a room attenuation of 10 dB.

Table 7.3(cont.) Air flow data

Numb er of slots Ain	Air flow rate per meter length		Face Velocity m/sec	Throw in meters	P in mm H 2O	Noise Criter ia (NC)
	Cfm m3/sec					
m2 5 0.036	150	0.071	1.97	3.7 - 2.1 -1.0	1.16	16
	200	0.094	2.61	4.1 - 2.5 - 1.5	1.71	23
	250	0.118	3.28	5.2 - 3.4 - 2.2	2.73	29
	300	0.142	3.94	6.0 - 4.2 - 2.8	3.96	32
	350	0.165	4.58	6.4 - 4.9 - 3.2	4.63	35
	400	0.189	5.25	7.3 - 5.5 - 3.7	5.38	39
6 0.043	200	0.094	2.19	3.9 - 2.4 - 1.3	1.37	18
	250	0.118	2.74	4.7 - 2.8 - 1.7	1.61	24
	300	0.142	3.30	5.6 - 3.6 - 2.5	2.46	30
	350	0.165	3.84	6.3 - 4.4 - 3.0	3.53	33
	400	0.189	4.39	6.7 - 5.2 - 3.5	4.48	36
	500	0.236	5.49	7.9 - 5.6 - 4.1	5.77	41
7 0.049	250	0.118	2.41	4.2 - 2.5 - 1.4	1.61	20
	300	0.142	2.90	4.9 - 3.1 - 1.9	1.82	25
	350	0.165	3.37	5.9 - 3.8 - 2.6	2.58	29
	400	0.189	3.86	6.5 - 4.7 - 3.2	3.68	32
	500	0.236	4.82	7.1 - 5.3 - 3	5.0	37
	600	0.283	5.77	8.3 - 5.9 - 4.3	6.06	42
8 0.057	350	0.165	2.89	5.1 - 3.2 - 2.2	2.02	24
	400	0.189	3.31	6.0 - 3.9 - 2.7	2.15	30
	450	0.213	3.74	6.6 - 4.8 - 3.3	3.02	32
	500	0.236	4.14	7.0 - 5.2 - 3.6	3.89	35
	600	0.283	4.96	8.3 - 5.6 - 4.2	5.16	39
	700	0.331	5.81	8.7 - 6.1 - 4.5	6.27	42

- Data based on one meter length of the diffuser with damper fully opened.
- Face velocity is measured in m/sec.
- P
- S: Static pressure loss is in mm of H₂O. Area factor in square meters.
- Throw (meters) is measured for terminal velocities of 0.25, 0.5 & 0.75 m/sec.
- NC based on a room attenuation of 10 dB.

Table 7.4 Air flow data

No. of slots							
1	CFM/m	100	150	200	250	300	350
	M3/sec/m	0.047	0.071	0.094	0.118	0.142	0.165
	Neg P	0.61	1.37	2.41	3.81	5.46	7.37
	^s NC	<15	19	28	36	42	48
2	CFM/m	250	300	350	400	450	500
	M3/sec/m	0.118	0.142	0.165	0.189	0.212	0.236
	Neg P	1.02	1.47	2.03	2.62	3.30	4.06
	^s NC	17	22	27	32	36	40
3	CFM/m	350	400	450	500	600	700
	M3/sec/m	0.165	0.189	0.212	0.236	0.283	0.331
	Neg P	1.04	1.35	1.68	2.08	2.97	4.01
	^s NC	17	22	25	30	34	40
4	CFM/m	400	500	600	700	800	900
	M3/sec/m	0.189	0.236	0.283	0.331	0.378	0.425
	Neg P	0.76	1.19	1.73	2.36	3.25	4.06
	^s NC	15	21	26	30	35	40
5	CFM/m	500	600	700	800	1000	1200
	M3/sec/m	0.236	0.283	0.331	0.378	0.472	0.567
	Neg P	0.76	1.12	1.52	1.96	3.05	4.37
	^s NC	15	22	27	30	35	42
6	CFM/m	600	700	800	1000	1200	1400
	M3/sec/m	0.283	0.331	0.378	0.472	0.567	0.66
	Neg P	0.83	1.08	1.78	2.18	3.53	4.75
	^s NC	17	24	29	31	37	43
7	CFM/m	700	800	1000	1200	1400	1600
	M3/sec/m	0.331	0.378	0.472	0.567	0.66	0.76
	Neg P	0.93	1.13	1.83	2.36	3.66	4.75
	^s NC	18	25	30	33	38	43
8	CFM/m	800	900	1100	1300	1500	1700
	M3/sec/m	0.378	0.425	0.52	0.61	0.71	0.8
	Neg P	1.02	1.13	96	2.45	3.87	4.93
	^s NC	18	25	32	35	40	45

- Data based on one meter length of the diffuser.
- NC based on a room attenuation of 10 dB.
- P
- S: Static pressure loss is in mm of water.

Table 7.5 Air flow data

No. of slots							
1	CFM/m	100	150	200	250	300	350
	M3/sec/m	0.047	0.071	0.094	0.118	0.142	0.165
	Neg P	0.51	1.13	1.98	3.09	4.4	5.89
	NC	<15	18	26	33	38	45
2	CFM/m	250	300	350	400	450	500
	M3/sec/m	0.118	0.142	0.165	0.189	0.213	0.236
	Neg P	0.85	1.22	1.67	2.13	2.66	3.25
	NC	<15	21	25	29	33	37
3	CFM/m	350	400	450	500	600	700
	M3/sec/m	0.165	0.189	0.213	0.236	0.283	0.331
	Neg P	0.87	1.11	1.37	1.69	2.39	3.21
	NC	16	21	23	28	31	37
4	CFM/m	400	500	600	700	800	900
	M3/sec/m	0.189	0.236	0.283	0.331	0.378	0.425
	Neg P	0.64	0.99	1.42	1.92	2.62	3.25
	NC	<15	20	24	28	32	37
5	CFM/m	500	600	700	800	1000	1200
	M3/sec/m	0.236	0.283	0.331	0.378	0.472	0.567
	Neg P	0.64	0.92	1.25	1.59	2.46	3.49
	NC	<15	21	25	27	32	39
6	CFM/m	600	700	800	1000	1200	1400
	M3/sec/m	0.283	0.331	0.378	0.472	0.567	0.66
	Neg P	0.67	0.83	1.39	1.77	3.85	3.8
	NC	16	23	27	28	34	40
7	CFM/m	700	800	1000	1200	1400	1600
	M3/sec/m	0.331	0.378	0.472	0.567	0.66	0.76
	Neg P	0.75	0.91	1.48	1.92	2.95	3.8
	NC	17	24	28	29	35	40
8	CFM/m	800	900	1100	1300	1500	1700
	M3/sec/m	0.378	0.425	0.52	0.61	0.71	0.8
	Neg P	0.83	0.91	1.56	1.99	3.12	3.94
	NC	17	24	30	32	37	42

- Data based on one meter length of the diffuser.
- NC based on a room attenuation of 10 dB.
- P
- S: Static pressure loss is in mm of water.

Table 7.6 Air flow data

No. of slots							
1	CFM/m	100	150	200	250	300	350
	M3/sec/m	0.047	0.071	0.094	0.118	0.142	0.165
	Neg P	0.7	1.59	2.82	4.49	6.49	8.84
	^s NC	17	21	30	38	45	52
2	CFM/m	250	300	350	400	450	500
	M3/sec/m	0.118	0.142	0.165	0.189	0.213	0.236
	Neg P	1.17	1.71	2.38	3.09	3.93	4.88
	^s NC	20	26	31	37	42	46
3	CFM/m	350	400	450	500	600	700
	M3/sec/m	0.165	0.189	0.213	0.236	0.283	0.331
	Neg P	1.19	1.56	1.96	2.42	3.54	4.82
	^s NC	20	26	29	34	40	46
4	CFM/m	400	500	600	700	800	900
	M3/sec/m	0.189	0.236	0.283	0.331	0.378	0.425
	Neg P	0.88	1.38	2.02	2.78	3.87	4.88
	^s NC	17	25	30	35	41	47
5	CFM/m	500	600	700	800	1000	1200
	M3/sec/m	0.236	0.283	0.331	0.378	0.472	0.567
	Neg P	0.88	1.29	1.78	2.31	3.63	5.24
	^s NC	17	26	29	35	41	48
6	CFM/m	600	700	800	1000	1200	1400
	M3/sec/m	0.283	0.331	0.378	0.472	0.567	0.66
	Neg P	0.96	1.25	2.08	2.57	4.20	5.7
	^s NC	19	28	34	37	40	49
7	CFM/m	700	800	1000	1200	1400	1600
	M3/sec/m	0.331	0.378	0.472	0.567	0.66	0.76
	Neg P	1.07	1.38	2.14	2.78	4.36	5.7
	^s NC	20	28	33	39	43	50
8	CFM/m	800	900	1100	1300	1500	1700
	M3/sec/m	0.378	0.425	0.52	0.61	0.71	0.8
	Neg P	1.17	1.31	2.29	2.89	4.61	5.9
	^s NC	22	31	37	40	45	50

- Data based on one meter length of the diffuser.
- NC based on a room attenuation of 10 dB.
- P
- S: Static pressure loss is in mm of water.
- Above data is tested & certified by ETL

CONSTRUCTION:

Frame & Blades: High quality extruded aluminium profiles.

Slot width: 19 mm as standard.

Number of slots available: 1,2,3,4,5,6,7,8.

Length: Up to 5.8 meters available in a single piece.

Optional accessories: Plenum box either un lined, internally insulated or externally insulated.

Description:

- Frame and deflection blades are made of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.

- This high capacity linear flow air diffuser is designed to achieve best possible horizontal air pattern with excellent static pressure, throw and sound characteristics.

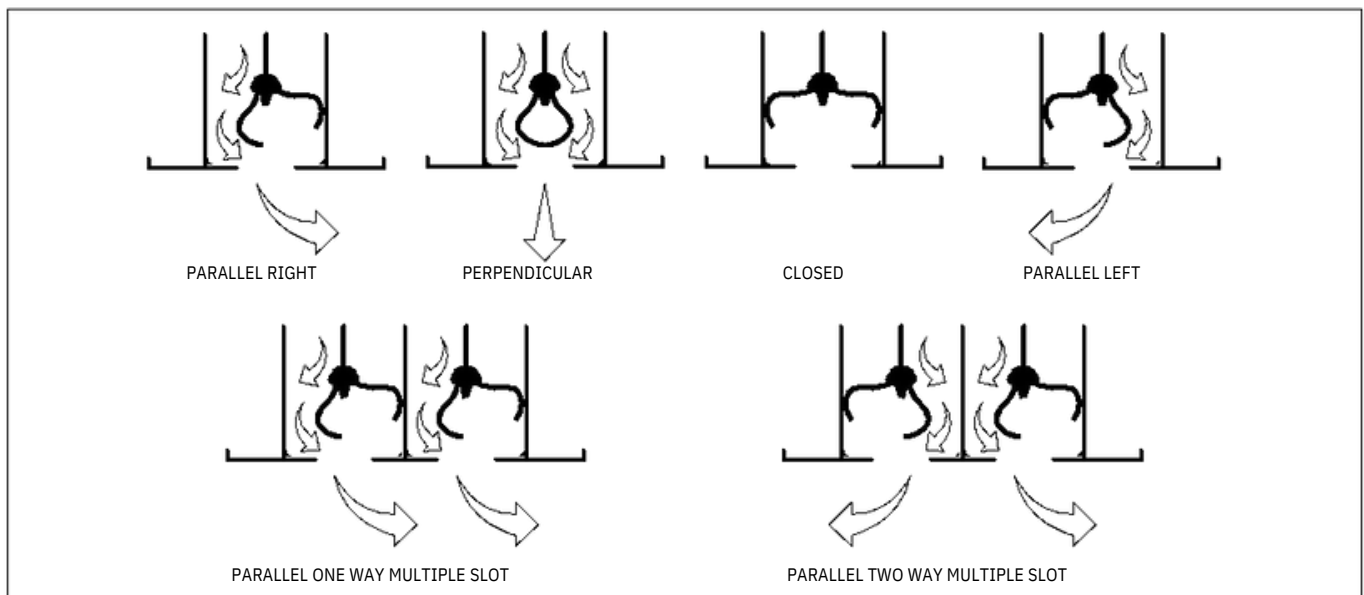
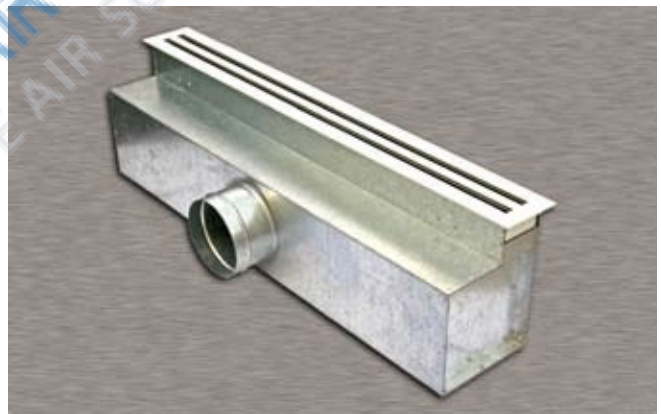
- This totally removable pattern control device allow access for installation and balancing with option of choosing the black/white extruded aluminium pattern control device which allows 180° pattern adjustment and volume control in the same unit (without using damper).

- Positive alignment of adjacent sections can be made by using alignment strips.

- Foam gasket is sealed around the back of the frame as option to avoid air leakage.

Standard finishes:

- Natural anodized aluminium finish.
- Powder coated colour finish as per RAL colour code.
- Flexibility of finish available as option.



Air flow data

1 slot	Airflow Cfm	80	88	99	109	119	130	143	155	168
	M3/sec	0.038	0.042	0.047	0.051	0.056	0.061	0.067	0.073	0.079
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	2.1-4.0-5.5	2.4-4.3-5.8	3.0-4.6-6.1	3.4-4.9-6.4	3.7-5.2-6.7	4.0-5.5-7.0	4.3-5.8-7.3	4.6-5.8-7.3	4.6-6.1-7.6
	Throw in m	<15	<15	<15	17	20	22	25	29	32

2 slot	Airflow Cfm	132	146	166	182	196	215	237	256	278
	M3/sec	0.062	0.069	0.078	0.085	0.092	0.101	0.112	0.121	0.131
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	1.8-3.6-5.5	2.1-4.0-5.8	2.7-4.6-6.4	3.0-4.9-6.7	3.5-4.9-7.0	3.7-5.2-7.0	3.7-5.2-7.3	4.0-5.5-7.3	4.0-5.8-7.6
	Throw in m	<15	<15	19	22	24	26	29	31	34

3 slot	Airflow Cfm	178	196	223	244	266	290	320	345	375
	M3/sec	0.084	0.092	0.105	0.115	0.125	0.137	0.151	0.163	0.177
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	1.2-2.7-4.3	1.5-3.0-4.6	2.1-3.7-5.2	2.4-4.3-5.8	2.7-4.6-6.4	3.0-4.9-6.7	3.3-5.2-7.0	3.7-5.5-7.3	4.0-5.8-7.6
	Throw in m	15	17	21	23	26	28	31	33	36

4 slot	Airflow Cfm	232	257	290	320	346	380	418	452	490
	M3/sec	0.109	0.121	0.137	0.151	0.163	0.179	0.197	0.213	0.231
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	1.2-2.4-4.0	1.5-2.7-4.3	1.8-3.3-4.9	2.1-3.7-5.5	2.4-4.0-6.1	3.0-4.6-6.7	3.3-4.9-7.0	3.7-5.2-7.0	4.0-5.5-7.6
	Throw in m	16	19	23	25	28	30	33	36	40

5 slot	Airflow Cfm	306	338	382	422	456	500	550	595	645
	M3/sec	0.144	0.159	0.180	0.199	0.215	0.236	0.259	0.281	0.304
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	1.2-2.1-4.0	1.5-2.4-4.3	1.8-2.7-4.9	2.1-3.0-5.2	2.7-3.6-5.8	3.0-4.3-6.4	3.3-4.9-6.7	3.7-5.2-7.0	4.0-5.5-7.3
	Throw in m	18	21	25	27	30	33	36	40	44

6 slot	Airflow Cfm	380	420	473	522	565	620	680	740	800
	M3/sec	0.179	0.198	0.223	0.246	0.267	0.293	0.321	0.349	0.377
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	1.2-2.1-4.0	1.5-2.4-4.6	1.8-2.7-4.9	2.1-3.4-5.5	2.7-4.0-5.8	2.7-4.6-6.4	3.0-4.6-6.7	3.3-4.9-7.0	3.7-5.2-7.0
	Throw in m	18	21	25	28	31	35	38	41	45

CONSTRUCTION:

Frame & Blades: 22 or 20 gauge galvanized steel sheet. Length: 600mm, 900mm & 1200mm standard.

Blades: High quality extruded aluminium profile. Spigots: Circular spigots of 50mm length as standard.

Slot width: 19mm as standard.

Number of slots available: 1, 2, 3, 4.

Optional accessories: Internal insulation, volume control damper.

Description:

- Frame fabricated from 22 or 20 gauge gavanized steel sheet and deflection blades are made of high quality extruded aluminium profiles.

- This high capacity plenum slot diffuser is designed to achieve best possible horizontal air pattern with excellent static pressure, throw and sound characteristics.

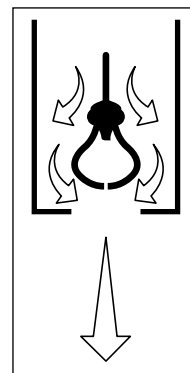
- This totally removable pattern control device allow access for installation and balancing with option of choosing the black/white extruded aluminium pattern control device which allows 180° pattern adjustment and volume control in the same unit (without using damper).

- Circular spigots of required diameter and standard length of 50mm would be fixed to the plenum box.

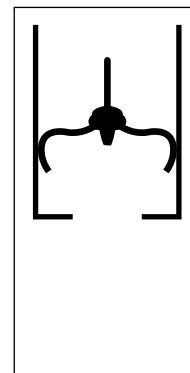
- Volume control dampers can be fixed to the spigots on request.

Standard finishes:

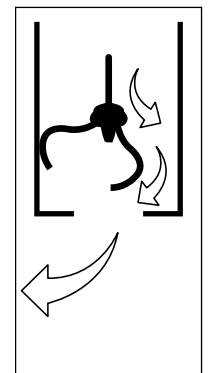
- Deflection blades can be of natural anodized aluminium finish or powder coated color finish as per RAL color codes.
- Flexibility of finish available.



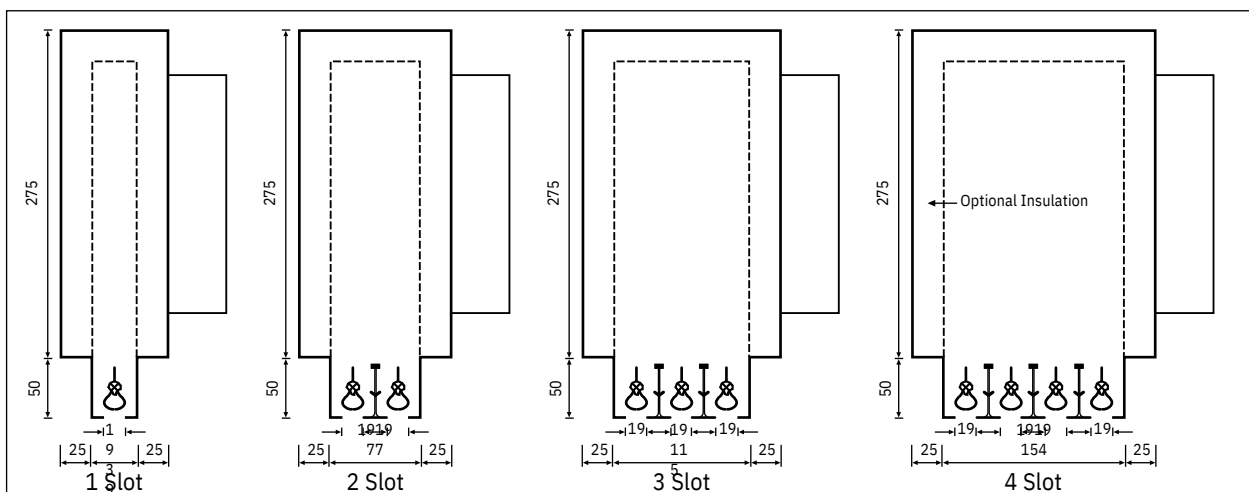
PERPENDICULAR



CLOSED



PARALLEL



Air flow data

1 slot	Airflow Cfm	80	88	99	109	119	130	143	155	168
	M3/sec	0.038	0.042	0.047	0.051	0.056	0.061	0.067	0.073	0.079
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	2.1-4.0-5.5	2.4-4.3-5.8	3.0-4.6-6.1	3.4-4.9-6.4	3.7-5.2-6.7	4.0-5.5-7.0	4.3-5.8-7.3	4.6-5.8-7.3	4.6-6.1-7.6
	Throw in m									
	NC	<15	<15	<15	17	20	22	25	29	32

2 slot	Airflow Cfm	132	146	166	182	196	215	237	256	278
	M3/sec	0.062	0.069	0.078	0.085	0.092	0.101	0.112	0.121	0.131
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	1.8-3.6-5.5	2.1-4.0-5.8	2.7-4.6-6.4	3.0-4.9-6.7	3.5-4.9-7.0	3.7-5.2-7.0	3.7-5.2-7.3	4.0-5.5-7.3	4.0-5.8-7.6
	Throw in m									
	NC	<15	<15	19	22	24	26	29	31	34

3 slot	Airflow Cfm	178	196	223	244	266	290	320	345	375
	M3/sec	0.084	0.092	0.105	0.115	0.125	0.137	0.151	0.163	0.177
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	1.2-2.7-4.3	1.5-3.0-4.6	2.1-3.7-5.2	2.4-4.3-5.8	2.7-4.6-6.4	3.0-4.9-6.7	3.3-5.2-7.0	3.7-5.5-7.3	4.0-5.8-7.6
	Throw in m									
	NC	15	17	21	23	26	28	31	33	36

4 slot	Airflow Cfm	232	257	290	320	346	380	418	452	490
	M3/sec	0.109	0.121	0.137	0.151	0.163	0.179	0.197	0.213	0.231
	P	1.14	1.40	1.78	2.16	2.54	3.05	3.68	4.32	5.08
	S in mm H ₂ O	1.2-2.4-4.0	1.5-2.7-4.3	1.8-3.3-4.9	2.1-3.7-5.5	2.4-4.0-6.1	3.0-4.6-6.7	3.3-4.9-7.0	3.7-5.2-7.0	4.0-5.5-7.6
	Throw in m									
	NC	16	19	23	25	28	30	33	36	40

- Neck velocity is measured in m/sec.
- P
- S: Static pressure loss across the diffuser s in mm of H₂O.
- Throw (meters) is measured for terminal velocities of 0.75, 0.5 & 0.25 m/se
- c. • Noise criteria (NC) based on a room attenuation of 10 dB.