

## CG Jet Diffuser

### ■ Description

ASLI CG drum type jet diffusers consist of fixed outer frame, adjustable inner core and blades. The inner core and blades be adjusted to 30° upward or downward and 45° towards left and right respectively. The blades are joined with linkage therefore it is easy to adjust the blades by just adjusting a single blade. ASLI CG drum type jet diffusers are particularly useful for large conditioned space, where it is impractical to bring down the ductwork close to the occupant. Example of such installations is shopping malls, warehouses, air terminals, factories, and etc. Due to its large opening area, ASLI CG drum type jet diffusers provide maximum air volume with minimum pressure drop and noise level.

### ■ Materials

- Outer Frame: CG-T, 1.0mm thickness galvanized steel.
- Inner core: CG-T, 1.0mm thickness galvanized steel.
- Blade: CG-T, 1.0mm thickness galvanized steel.

### ■ Surface Finish

- Baked white powder coat as standard.

### ■ Features

- Long throw capability.
- High air flow capability.
- Low pressure drop.
- Low noise level.
- Suitable for exposed ductwork or surface mounted.
- Suitable for wall installation.
- Air flow direction is adjustable.
- Inner core can be adjusted up to 30° upward or downward.
- Blades can be adjusted up to 45° left or right.
- Blades are joined with linkages, easy adjustment.

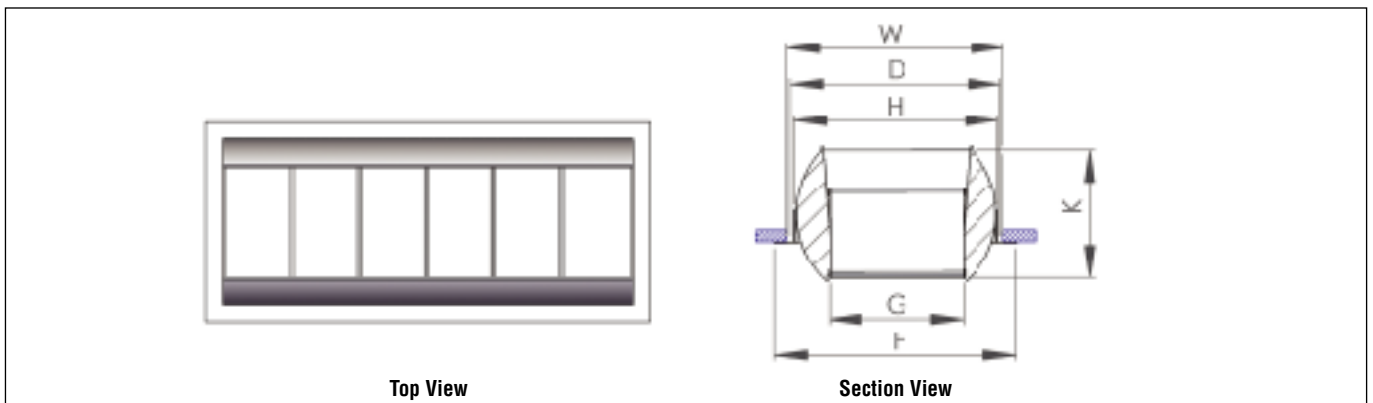
### ■ Standard Sizes

- No standard sizes. Made to custom.

### ■ Accessories

- Opposed blade damper (G1).

### ■ CG Construction Illustrations



### ■ CG Physical Dimension Unit:mm

Neck Size	D = Duct Size	W = Wall Size	F = Face Size	G = Outlet Size	K = Height
W X H	W + 20 H + 20	W + 30 H + 30	W + 60 H + 60	150 200 250	150 ~ 250

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### CG Air Flow Performance Data

Neck Size (mm)	Neck Area (m <sup>2</sup> )	Nozzle Vel.(m/s) Tot. Press (mmAq)	1	1.5	2	2.5	3	3.5	4	4.5
			500 X 250	0.125	CMH	450	675	900	1125	1350
Throw (m)	4.0 - 8.3	6.1 - 10.5	8.3 - 12.0		9.4 - 13.3	10.5 - 14.6	11.2 - 16.0	12.0 - 17.1	12.7 - 18.0	
NC	-	-	-		-	24	29	34	38	
650 X 250	0.1625	CMH	585	878	1170	1463	1755	2048	2340	2633
Throw (m)		4.7 - 9.4	6.8 - 11.7	9.4 - 13.5	10.5 - 14.9	11.6 - 16.3	12.7 - 18.0	13.4 - 18.9	14.2 - 20.4	
NC		-	-	-	20	26	32	36	40	
750 X 250	0.1875	CMH	675	1013	1350	1688	2025	2363	2700	3038
Throw (m)		5.0 - 10.1	7.5 - 12.6	10.1 - 14.6	11.5 - 16.2	12.6 - 18.0	13.7 - 19.5	14.8 - 20.8	15.5 - 22.0	
NC		-	-	-	21	26	32	37	41	
900 X 250	0.225	CMH	810	1215	1620	2025	2430	2835	3240	
Throw (m)		5.3 - 11.2	8.3 - 13.7	11.2 - 16.0	12.6 - 17.9	13.7 - 19.6	14.7 - 21.1	15.9 - 22.6		
NC		-	-	-	22	29	34	38		
1000 X 250	0.25	CMH	900	1350	1800	2250	2700	3150	3600	
Throw (m)		5.6 - 12.0	9.0 - 14.6	12.0 - 17.1	13.4 - 18.8	14.8 - 21.0	15.9 - 22.4	17.0 - 24.3		
NC		-	-	16	24	30	35	39		
500 X 300	0.15	CMH	540	810	1080	1350	1620	1890	2160	2430
Throw (m)		4.2 - 9.0	6.8 - 11.2	9.0 - 13.0	10.4 - 14.6	11.2 - 16.0	12.2 - 17.4	13.0 - 18.5	13.6 - 19.6	
NC		-	-	-	19	25	30	35	39	
650 X 300	0.195	CMH	702	1053	1405	1755	2106	2475	2808	3159
Throw (m)		4.7 - 10.1	7.5 - 12.5	10.0 - 14.7	11.5 - 16.3	12.4 - 18.0	13.6 - 19.6	14.4 - 20.6	15.0 - 22.4	
NC		-	-	-	20	27	32	36	40	
750 X 300	0.225	CMH	810	1215	1620	2025	2430	2835	3240	
Throw (m)		5.3 - 11.2	8.3 - 13.7	11.2 - 16.0	12.6 - 17.9	13.7 - 19.6	14.7 - 21.1	15.9 - 22.6		
NC		-	-	-	22	29	34	38		
900 X 300	0.27	CMH	972	1458	1944	2430	2916	3402	3888	
Throw (m)		5.8 - 12.4	9.0 - 14.9	12.2 - 17.6	13.7 - 19.6	14.8 - 21.2	16.2 - 23.0	17.3 - 24.7		
NC		-	-	-	23	30	36	40		
1000 X 300	0.3	CMH	1080	1620	2160	2700	3240	3780		
Throw (m)		6.4 - 13.0	9.7 - 16.0	13.0 - 18.5	14.8 - 21.0	15.9 - 22.6	17.3 - 24.5			
NC		-	-	18	25	31	37			
350 X 350	0.1225	CMH	440	662	882	1103	1323	1544	1764	1985
Throw (m)		4.0 - 8.3	6.1 - 10.5	8.3 - 12.0	9.4 - 13.2	10.5 - 14.4	11.0 - 15.8	12.0 - 17.0	12.5 - 17.8	
NC		-	-	11	18	24	29	34	38	
550 X 350	0.175	CMH	630	945	1260	1575	1890	2205	2520	2835
Throw (m)		4.1 - 9.8	7.2 - 12.2	9.5 - 14.2	10.9 - 15.6	12.0 - 17.4	13.1 - 18.5	13.8 - 19.9	14.6 - 21.1	
NC		-	-	14	20	27	32	37	41	
650 X 350	0.2275	CMH	820	1228	1638	2048	2457	2867	3276	
Throw (m)		5.3 - 11.2	8.3 - 13.7	11.2 - 16.0	12.6 - 18.0	13.7 - 19.6	14.7 - 21.2	16.0 - 22.7		
NC		-	-	15	22	29	34	38		
750 X 350	0.2625	CMH	945	1418	1890	2363	2835	3308	3780	
Throw (m)		5.8 - 12.3	9.0 - 14.8	12.0 - 17.4	13.5 - 19.5	14.7 - 21.1	16.2 - 22.9	17.3 - 24.5		
NC		-	-	16	23	30	36	40		
900 x 350	0.315	CMH	1135	1700	2268	2835	3402	3970		
Throw (m)		5.4 - 13.3	9.8 - 16.2	12.9 - 19.0	14.7 - 21.1	16.2 - 23.0	17.6 - 24.8			
NC		-	-	18	25	32	38			
1000 x 350	0.35	CMH	1260	1890	2520	3150	3780	4410		
Throw (m)		6.9 - 14.2	10.6 - 17.4	13.8 - 20.0	15.8 - 22.4	17.3 - 24.5	18.9 - 26.2			
NC		-	-	20	27	34	39			

- Throw is based on terminal velocity of 0.5 m/s and 0.25 m/s respectively.
- Throw is based on isothermal condition.
- NC value is based on room absorption of 10dB, re 10<sup>-12</sup> watts.
- Dash (-) in space indicates NC value less than 20.
- The performance data is tested in zero degree deflection in axial installation (wall installation).

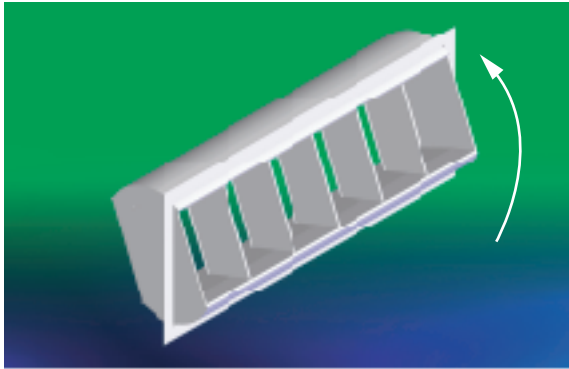
• Corrected values with different angle of discharge.

Angle of discharge	0°	15°	30°
Tot. Press	1	1.25	1.79
Throw	1	0.83	0.66
NC	0	+3	+6

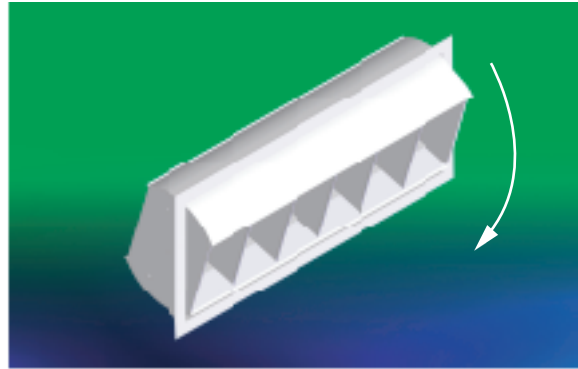
Eg: If angle of discharge is 30°, to obtain the total pressure loss, use a multiplier of 1.79, for throw use a multiplier of 0.66; for NC values, it will be NC add 6.

All stated specifications are updated at the printing date and subject to change without notice or obligation. The actual product might differ from pictures shown.

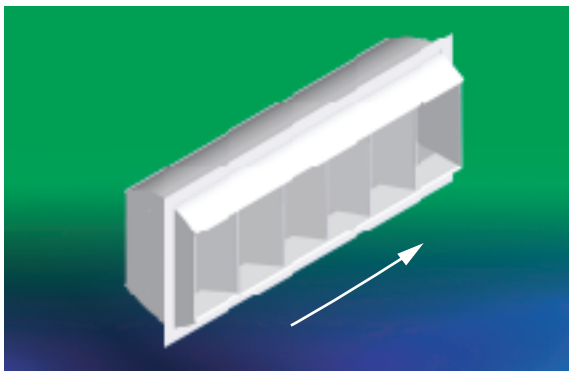
## CG Jet Diffuser



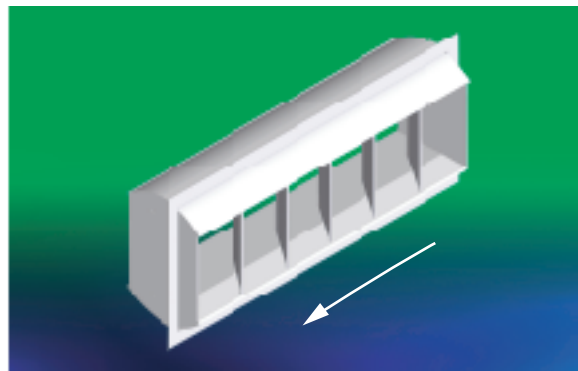
Directing air upwards



Directing air downwards

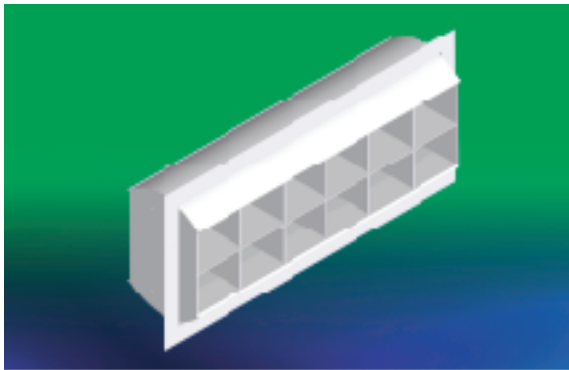


Directing air towards right

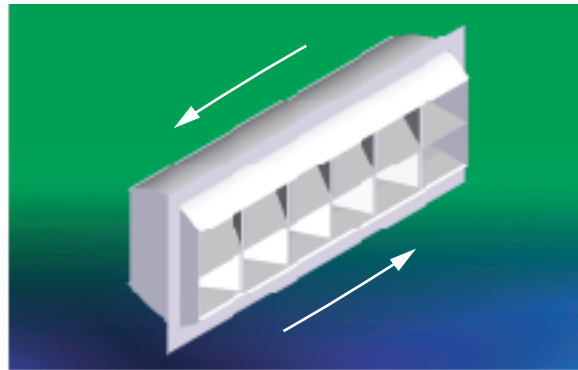


Directing air towards left

### Optional Model: Double layer CG (CGD)



Double layer CG



Double layer blades directing air towards left and right

### ■ CG Suggested Specification

CG-T drum type jet diffuser shall be suitable for throw of 15 meters distance with optimum acoustic properties. The outer frame, inner core and blades shall be made of 1.0mm thickness galvanized steel. The inner core shall be adjustable with 30° deflection upward and downward around the horizontal center axis of diffuser without using any tools. The blades shall be joined with linkage. All the blades shall move together in one direction when one blade are being adjusted. The blades shall be adjustable with 45° deflection towards left and right without using any tools. The diffuser shall be epoxy coated and furnished to architectural requirement.

### ■ CG Order Code

Model	Material	W X H	Accessories
CG, CGD	T (Galvanized Steel)	Varies	G1

Example: CG-T-500mmX250mm-G1