

CL Ball Type Jet Diffuser



ASLI CL Ball Type Jet Diffusers are excellent for spot heating and cooling which provides ventilation to places where distribution of air via ceiling diffuser is not possible or not practical. The nozzle of the diffuser can be rotated in any direction off center. The air volume is adjustable by turning a knob on the nozzle. No special tools or techniques are required. Kitchen, factories, stadiums or any places where the conditioned air needed to move from an inaccessible place to the work environment is easily handled by ASLI CL jet diffuser. For industrial applications, air showers with numerous ASLI CL jet diffusers is an effective way to eliminate contaminants.

Materials

CL-A
Nozzle : 1.0mm thickness aluminium sheet roll formed
Frame : 1.0mm thickness aluminium sheet roll formed
Curved blade : 1.0mm thickness aluminium sheet roll formed

Surface Finish

Baked white powder coated as standard.

Standard Sizes

125 / 150 / 200 / 250

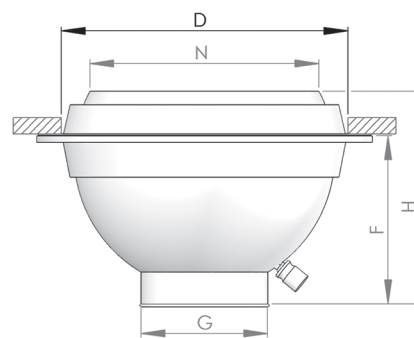
Features

- Economical.
- Long throw capability.
- High air flow capability.
- Excellent for spot heating or cooling.
- Suitable for exposed ductwork or surface mounted.
- Suitable for ceiling or wall installation.
- Air flow volume is adjustable.
- Air flow direction is adjustable.
- Maximum rotation angle up to 45° in all direction.
- Self rotation around nozzle center axis in 360°.

CL Physical Dimension *Unit : mm*



Top View

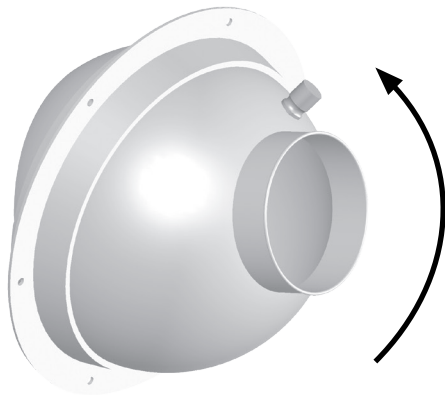


Section View

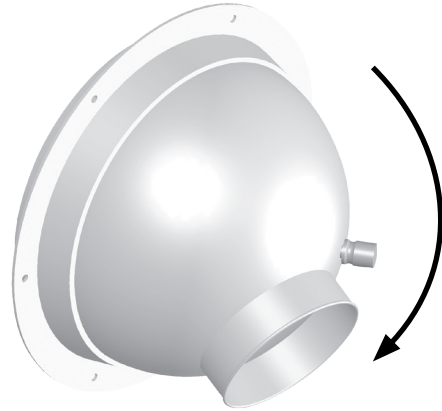
Size	N	D	F	H	G
125	100	135	80	120	65
150	120	150	100	135	75
200	175	215	130	165	100
250	248	270	175	225	140

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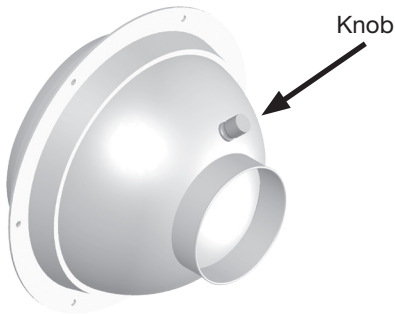
CL Suggested Specification



Directing air upwards



Directing air downwards



100% closed



50% open

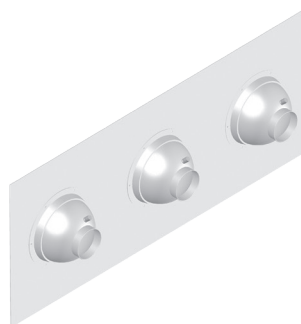


100% open

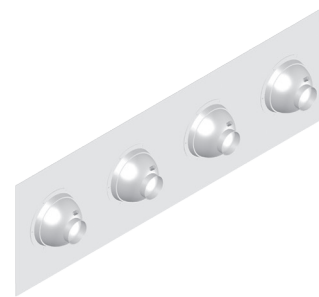
CL could be mounted on a panel and supplied as a unit.



Two CL panel



Three CL panel



Four CL panel

CL panel could be installed on the wall or ceiling

CL-A jet diffuser shall be made of 1.0mm thickness aluminum roll formed. The nozzle shall be adjustable with 45° deflection towards all direction. The nozzle shall be able to rotate 360° around the center axis through the nozzle. The curved blade shall be adjustable with a knob at the surface of the nozzle to close or open the nozzle outlet without using any tools. The curved blade shall be shaped to the nozzle shape and located inside the nozzle. The frame shall consist of an outer frame and inner frame with a gasket in between. The frames shall be detachable from the nozzle with simple tools. The diffuser shall be epoxy coated and furnished to architectural requirement.

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CL Air Flow Performance Data

Neck Size (mm)	Neck Area (m ²)	Nozzle Vel. (m/s)	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
125	0.0033	CMH	30	59	89	119	149	178	208	238
		St. Press. (mmAq)	0.5	1.7	4.5	7.7	9.9	16.9	23.1	32.3
		NC	-	-	-	20	24	29	34	37
		Throw (m)	2.9-4.3	4.3-8.6	6.0-12.0	8.3-15.7	10.0-17.7	11.4-22.8	12.8-27.9	14.8-29.9
150	0.0044	CMH	40	79	119	158	198	238	277	317
		St. Press. (mmAq)	0.5	1.6	4.5	7.2	10.9	20.4	23.1	29.8
		NC	-	-	-	22	24	29	32	35
		Throw (m)	2.9-5.4	4.6-8.6	7.1-14.3	8.8-18.5	10.5-22.8	12.8-28.5	15.7-31.6	14.3-35.6
200	0.0079	CMH	71	142	213	284	356	427	498	569
		St. Press. (mmAq)	0.4	1.5	3.5	6.0	10.9	15.6	22.8	29.8
		NC	-	-	-	24	29	35	37	41
		Throw (m)	3.4-7.1	5.7-11.4	8.6-17.7	11.1-24.2	14.8-29.9	17.7-35.6	20.5-42.8	22.8-46.2
250	0.0154	CMH	139	277	416	554	693	832	970	1109
		St. Press. (mmAq)	0.4	1.5	3.5	6.0	10.9	15.6	22.8	29.8
		NC	-	-	-	22	28	32	36	40
		Throw (m)	4.3-8.6	8.6-15.7	12.0-25.7	15.7-31.9	20.5-42.2	23.9-46.2	28.5-54.2	31.9-64.1

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

CL Order Code *Unit : mm*

Model	Material	Size
CL	A (Aluminum)	125 / 150 / 200 / 250

Example : CL - A - N 200