CL Jet Diffuser (Pankah Louver)

Description

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

- Nozzle: CL-A, 1.0mm thickness aluminum sheet roll formed.
- Frame: CL-A, 1.0mm thickness aluminum sheet roll formed.
- Curved blade: CL-A, 1.0mm thickness aluminum sheet roll formed.

Surface Finish

- Baked white powder coat as standard.

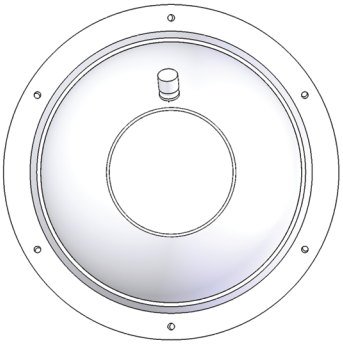
Features

- 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˚.

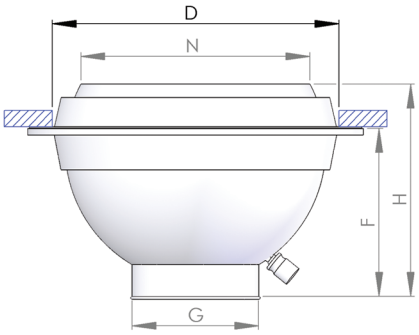
Standard Sizes

- 125ø, 150ø, 200ø, 250ø (mm)

CL Construction Illustrations



Top View



Section View

CL Physical Dimension Unit:mm

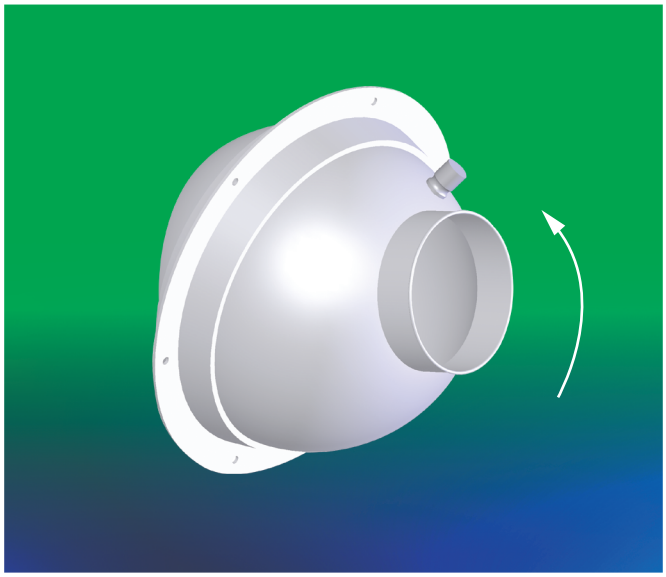
N = Neck Size	D	F	H	G
125	145	92	120	65
150	165	90	135	75
200	215	118	160	100
250	285	170	230	140

CL Jet Diffuser

CL Air Flow Performance Data

Neck Size (mm)	Nozzle Area (m^2)	Nozzle Vel. (m/s)	2.5	5	7.5	10	12.5	15	17.5	20
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 - 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).



Directing air upwards

Directing air downwards

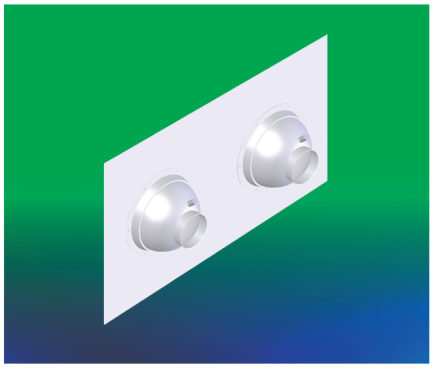
CL Jet Diffuser

100% closed

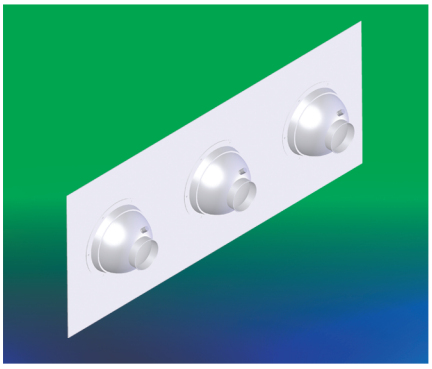
50% open

100% open

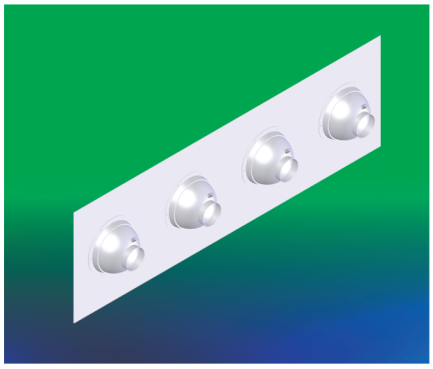
CL could be mounted on a panel and supplied as a unit. The CL panel could be installed on the wall or ceiling



Two CL panel



Three CL panel



Four CL panel

CL Suggested Specification

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.

CL Order Code

Model	Material	Neck Size (mm)
CL	A (Aluminum)	125, 150, 200, 250

Example: CL-A-200mm