

DA Directional Ceiling Diffuser



ASLI DA is a type of diffuser with multiple square cone cones which provide excellent 4 ways directional discharge pattern. This consistent air flow pattern produce rapid mixing, excellent and stable room air distribution. DA is the most popular square ceiling diffuser and suitable for rapid cooling usage.

Materials

DA-A

Frame : Aluminum extrusion.
Blade : 1.0mm aluminum.
Support Bar : 1.5mm galvanized steel.

DA-T

Frame : 0.7mm galvanized steel.
Blade : 0.6mm galvanized steel.
Support Bar : 1.5mm galvanized steel.

Surface Finish

White powder coated, oven baked as standard.
Others available upon request.

Standard size *Unit : mm*

290 x 290 / 370 x 370
450 x 450 / 595 x 595
603 x 603
Others available upon request

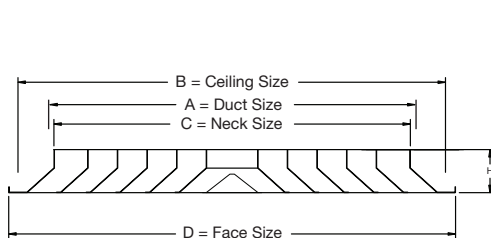
Features

- Can made in square or rectangular shape.
- The direction of air flow can set at 1, 2, 3 or 4 ways.
- The removable core is hooked on the inner frame with spring-loaded clip which allow easy adjustment of volume control damper.

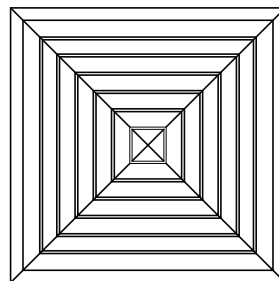
Accessories

- C1 Radial fan blade damper
- C2 Crown damper
- D2 Adapter
- G1 Opposed blade damper
- PB-S Plenum box side entry
- PB-T Plenum box top entry

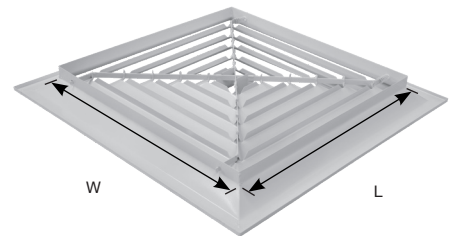
DA Physical Dimension *Unit : mm*



Sectional View



Top View

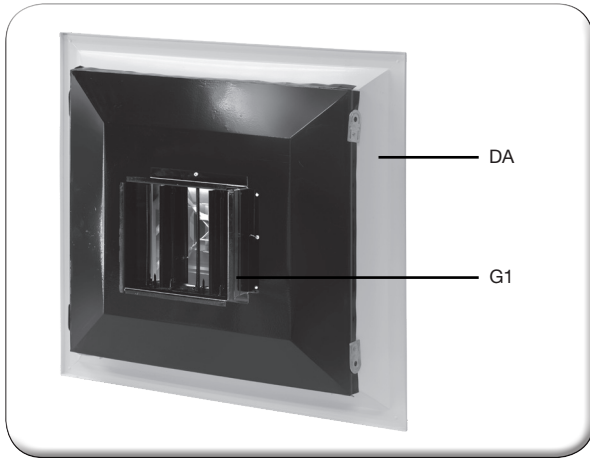


Isometric View

Model	C (Neck Size)	B (Ceiling Size)	A (Duct size)	D (Face Size)	H (Height)
DA-T	W x L	W + 110 L + 110	W + 10 L + 10	W + 123	55
DA-A				L + 123	
				595 x 595 603 x 603	58

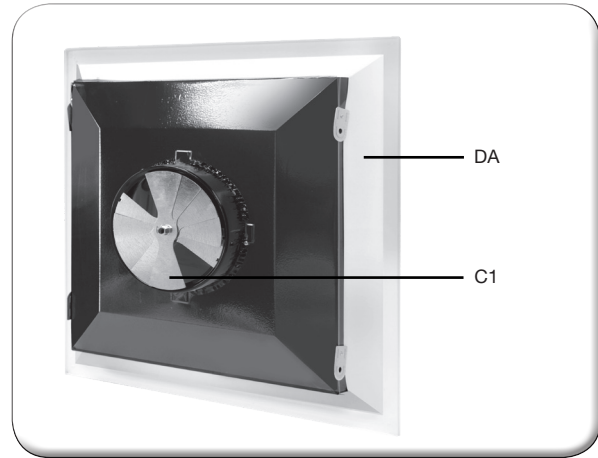
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DA + G1 Opposed Blade Damper (OBD)



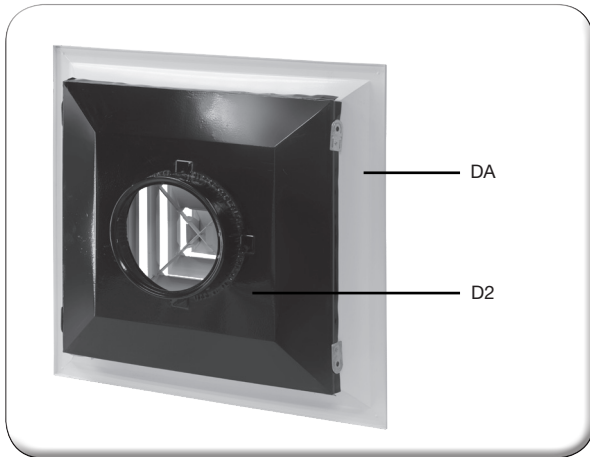
- G1 opposed blade damper is designed for even air distribution over the entire face of diffuser. It is level arm operated & adjustable. The damper can be set at fully open, half open & fully close.
- G1 damper are constructed of galvanized steel with matt black as standard finish.
- Height for G1 is 60mm.

DA + C1 Radial Fan Blade Damper



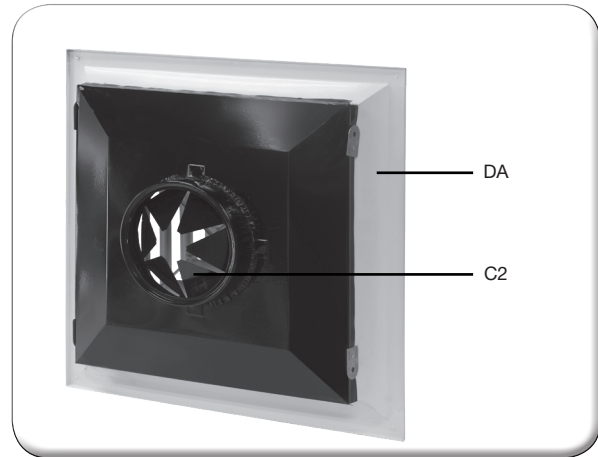
- C1 radial fan blade damper is adjustable from below by screw driver.
- Mould pressed, 0.6mm galvanized steel with matt black as standard finish.
- Height for C1 is 45mm.

DA + D2 Square to Round Adapter



- D2 square to round adapter fitted to the DA, enable easy installation of flexible duct.
- D2 adapter are constructed of 0.6mm galvanized steel with matt black as standard finish and optional with or without damper.
- Height for D2 is 60mm

DA + C2 Crown Damper



- C2 crown damper provides maximum free area and uniform air distribution.
- Height for C2 is 45mm

DA Directional Ceiling Diffuser

DA Performance Data (Square Inlet)

Neck Size (mm) Neck Area (m ²)	Neck Vel. (m/s)	1.5	2.0	2.5	3.0	3.5	4.0
150 x 150 (0.023)	CMH	122	162	203	243	284	324
	Total Press (mmAq)	0.9	0.95	1.05	1.5	2.1	2.6
	Throw (m)	1.2 - 1.5	1.5 - 2.1	1.8 - 2.4	2.4 - 3.3	3.0 - 3.9	3.3 - 4.5
	NC	-	-	22	28	33	41
200 x 200 (0.04)	CMH	216	288	360	432	504	576
	Total Press (mmAq)	0.95	1.0	1.1	1.5	2.1	2.6
	Throw (m)	1.2 - 1.5	1.8 - 2.4	2.4 - 3.0	2.7 - 3.6	3.3 - 4.5	4.2 - 5.4
	NC	-	-	23	28	33	42
250 x 250 (0.0625)	CMH	338	450	563	675	788	900
	Total Press (mmAq)	1.0	1.1	1.6	2.4	3.2	4.1
	Throw (m)	1.3 - 1.8	2.1 - 3.5	2.4 - 3.8	3.0 - 4.5	3.2 - 4.8	3.5 - 5.1
	NC	-	-	-	26	31	36
300 x 300 (0.09)	CMH	486	648	810	972	1134	1296
	Total Press (mmAq)	1.2	1.6	2.5	3.4	4.8	6.0
	Throw (m)	1.5 - 2.1	2.1 - 3.0	2.7 - 3.6	3.3 - 4.5	4.2 - 5.4	4.5 - 6.0
	NC	-	22	28	34	39	45
350 x 350 (0.1225)	CMH	662	882	1103	1323	1544	1764
	Total Press (mmAq)	1.2	1.3	2.1	2.9	4.1	5.3
	Throw (m)	1.8 - 2.4	2.4 - 3.3	3.3 - 4.2	3.9 - 5.1	5.1 - 6.3	5.7 - 7.2
	NC	-	24	30	36	41	50

- Throw is based on terminal velocities of 0.5m/s-0.25m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space indicates NC value less than 20.

DA Directional Ceiling Diffuser

DA Performance Data (Round Inlet)

Neck Size (mm) Neck Area (m ²)	Neck Vel. (m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0
ø 200 (0.0324)	CMH	233	292	350	408	467	525	583
	Total Press (mmAq)	1.0	1.1	1.5	2.1	2.6	3.4	4.2
	Throw (m)	1.5 - 2.6	2.1 - 3.2	2.4 - 3.5	2.6 - 3.8	2.7 - 4.2	3.0 - 4.3	3.1 - 4.4
	NC	-	-	-	22	25	28	31
ø 250 (0.0507)	CMH	365	456	548	640	730	820	913
	Total Press (mmAq)	1.1	1.6	2.4	3.2	4.1	5.3	6.5
	Throw (m)	2.1 - 3.5	2.4 - 3.8	3.0 - 4.5	3.2 - 4.8	3.5 - 5.1	4.0 - 5.4	4.1 - 5.7
	NC	-	-	22	26	30	32	35
ø 300 (0.0731)	CMH	526	658	790	920	1052	1185	1315
	Total Press (mmAq)	1.6	2.5	3.4	4.8	6.0	7.6	8.7
	Throw (m)	2.5 - 4.2	3.0 - 4.8	3.6 - 5.4	4.3 - 5.7	4.3 - 6.4	4.6 - 6.7	5.2 - 7.2
	NC	-	22	26	30	33	36	40
ø 350 (0.0979)	CMH	705	881	1057	1234	1410	1585	1762
	Total Press (mmAq)	1.3	2.1	2.9	4.1	5.3	6.7	7.9
	Throw (m)	2.7 - 5.2	3.6 - 5.7	4.2 - 6.2	4.9 - 6.9	5.2 - 7.2	5.4 - 7.7	5.5 - 8.5
	NC	-	22	25	31	34	37	41

- Throw is based on terminal velocities of 0.5m/s-0.25m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space indicates NC value less than 20.

DA Performance Data (Rectangular)

Face Size (mm x mm)	Neck Vel. (m/s)	1.5	2.0	2.5	3.0	3.5	4.0	4.5	
1200 x 600	Vel. Press. (mmAq)	0.1	0.2	0.4	0.5	0.8	1.0	1.2	
	Total Press (mmAq)	1.0	1.9	2.9	4.2	5.7	7.5	9.4	
	CMH	2774	3699	4624	5548	6473	7398	8322	
	NC	-	26	32	37	41	44	47	
	Throw (m)	1200mm side	10.7 - 15.4	12.4 - 17.6	13.9 - 19.8	15.4 - 21.7	16.6 - 23.4	17.6 - 24.9	18.8 - 26.3
		600mm side	7.3 - 11.9	9.8 - 13.7	10.7 - 15.4	11.9 - 16.8	12.7 - 18.0	13.7 - 19.3	14.4 - 20.5

- Throw is based on terminal velocities of 0.5m/s-0.25m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space indicates NC value less than 20.

DA Order Code

Model	Materials	Accessories	Face Size	Neck Size
DA	T	C1	B 603 x 603	N 200

Example : DA - T + C1 - B 603 x 603, N 200