

## DA Directional Ceiling Diffuser

### Materials

- DA-A  
Frame: 1.0mm aluminum extrusion.  
Blade: 0.6mm 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

- DA-T: white powder coated, oven baked as standard.
- DA-S: stainless steel original color.
- DA-A: white powder coat oven baked or natural anodized.

### Features

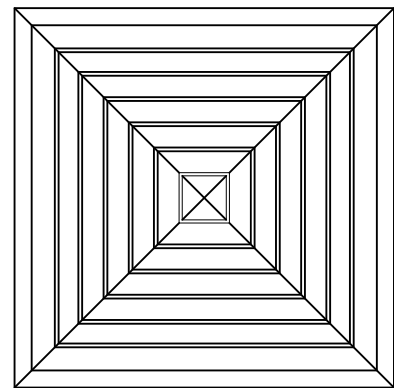
- Frame for DA is flush.
- DA diffuser can be made square or rectangular.
- The direction of air flow can be 1-way, 2-way, 3-way or 4-way.

### Accessories

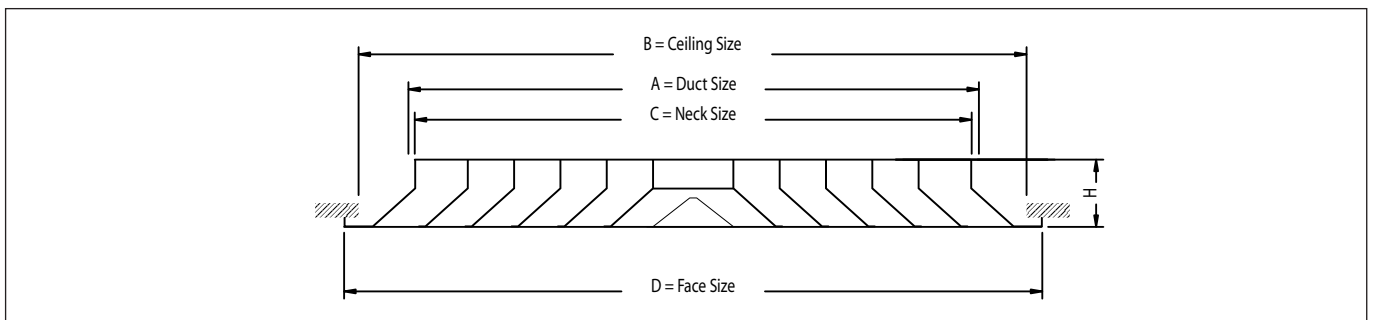
- G1 Opposed blade damper.
- C1 Radial fan blade damper.
- D2 Square to round adapter.
- C2 Crown damper.

### Standard Sizes

- Comply to requirements for both square & rectangular diffuser.



### DA Construction Illustrations



### DA Physical Dimension Unit:mm

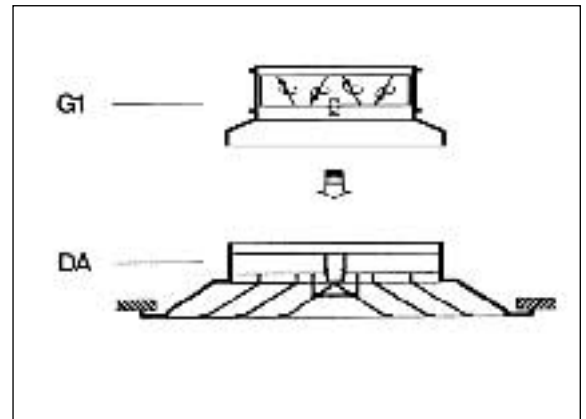
Model	C (Neck Size)	A (Duct Size)	B (Ceiling Size)	D (Face Size)	H (Height)
DA-T	W x H	W + 10 H + 10	W + 110	W + 123	65
DA-S			H + 110	H + 123	
DA-A			W + 75	595 x 595	603 x 603
			H + 75		

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.

## DA Directional Ceiling Diffuser

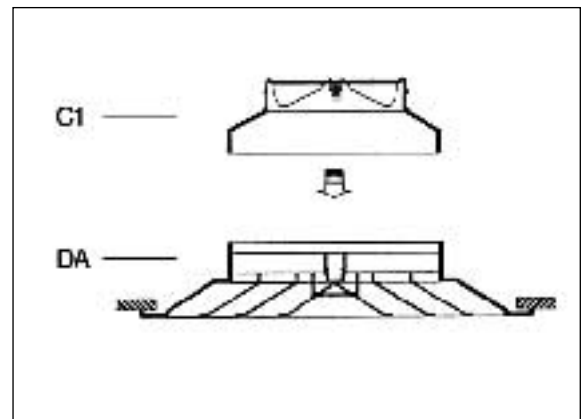
### ■ DA + G1 Opposed Blade Damper (OBD)

- The G1 opposed blade damper is designed for even distribution of air over the entire face of diffuser. It is gear operated & can be adjusted from below by means of key or screw driver. 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-T 50mm.



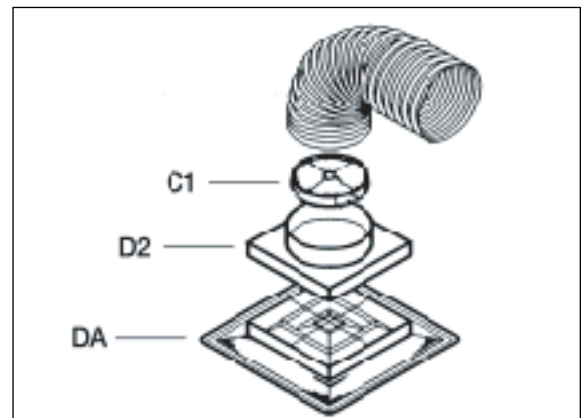
### ■ DA + C1 Radial Fan Blade Damper

- The C1 radial fan blade damper is a volume control adjustable from below by means of key or screw driver.
- Mould pressed, 0.6mm thick galvanized steel with matt black as standard finish.
- Height for C1-T 60mm.



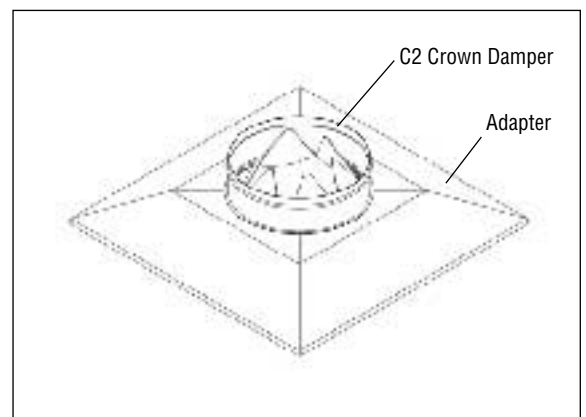
### ■ DA + D2 Square to Round Adapter c/w Radial Fan Blade Damper

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



### ■ DA + C2 Crown Damper

- Model DA has a removable core for easy adjustable of OBD volume damper.
- The removable core is hooked to the inner frame a spring-loaded clip. Neck sizes above 450mm will not have a removable core.
- C2 crown damper provides maximum free area and uniform air distribution.



## DA Directional Ceiling Diffuser

### DA Product Specification Unit:mm

Model Code	Materials	Surface Finish	Standard Sizes	Accessories	Order Key																																																												
DA-T	Frame: 0.7mm Galvanized Steel Blade: 0.6mm Galvanized Steel Support Bar: 1.5mm Galvanized Steel	White Powder Coat, Oven Baked	150 X 150 200 X 200 250 X 250 300 X 300 350 X 350 400 X 400 450 X 450 500 X 500 550 X 550 600 X 600	G1 Opposed Blade Damper  D2 Square to Round Damper  C1 Radial Fan Blade  C2 Crown Damper	<table border="0"> <tr> <td colspan="2">DA</td> <td>-</td> <td colspan="2">T</td> <td>+</td> <td colspan="2">C1</td> <td>-</td> <td>150</td> <td>x</td> <td>150</td> </tr> <tr> <td colspan="2"> </td> <td></td> <td colspan="2"> </td> <td></td> <td colspan="2"> </td> <td></td> <td>W</td> <td></td> <td>H</td> </tr> <tr> <td colspan="2"> </td> <td></td> <td colspan="2"> </td> <td></td> <td colspan="2"> </td> <td></td> <td colspan="3">Accessories</td> </tr> <tr> <td colspan="2"> </td> <td></td> <td colspan="2"> </td> <td></td> <td colspan="2"> </td> <td></td> <td colspan="3">Materials</td> </tr> <tr> <td colspan="2"> </td> <td></td> <td colspan="2"> </td> <td></td> <td colspan="2"> </td> <td></td> <td colspan="3">Model</td> </tr> </table>	DA		-	T		+	C1		-	150	x	150										W		H										Accessories												Materials												Model		
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DA-S	0.5mm stainless steel	Original Colour																																																															
DA-A	Frame: 1.0mm Aluminum Extrusion Blade: 0.6mm Aluminum Support Bar: 1.5mm Galvanized Steel	White Powder Coat, Oven Baked or Natural Anodized																																																															

### DA Performance Data (Square Inlet)

Neck Size (mm) Neck Area (m <sup>2</sup> )	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<sup>-12</sup> watts.
- Dash (-) in space indicates NC value less than 20.
- Performance tables are based on steel construction. For performance with aluminium construction, the pressure loss is 1.15P, and add 2 for NC value.
- Thickness of materials other than standard are available upon request.

## DA Directional Ceiling Diffuser

### ■ DA Performance Data (Round Inlet)

Neck Size (mm) Neck Area (m <sup>2</sup> )	Neck Vel. (m/s)	2	2.5	3	3.5	4	4.5	5
200 ø (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
250 ø (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
300 ø (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
350 ø (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<sup>-12</sup> 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	
	Tot. 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<sup>-12</sup> watts.
- Dash (-) in space indicates NC value less than 20.