

DJ Modular Core Directional Diffuser

Description

ASLI DJ modular core directional diffusers are designed to supply large volume of air at low sound levels and pressure drops. Field adjustment of the air pattern is fast and easy by repositioning the curved modular pattern controllers to suit the desired application.

Materials

- Frame: Aluminum extrusion.
- Blade: Aluminum extrusion.

Surface Finish

- Baked white powder coated as standard.

Features

- Economical.
- Long throw capability.
- High air flow capability.
- Suitable for exposed ductwork or surface mounted.
- Suitable for ceiling.
- Curved blade air pattern modules can be repositioned in the field simply and quickly without using any tools.
- 1, 2, 3 and 4-way throw model available.
- Optional removable air pattern modules.

Accessories

- Opposed Blade Damper (G1).

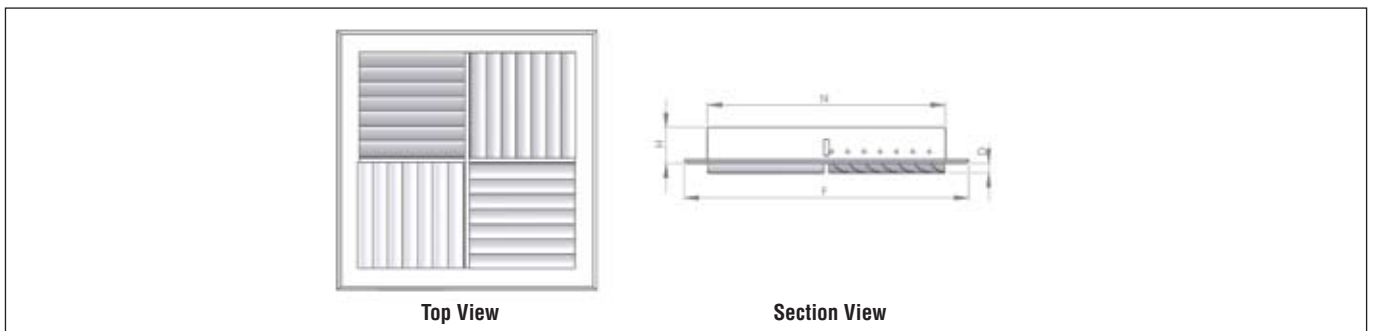


4 Way DJ



3 Way DJ

DJ Construction Illustrations



DJ Physical Dimension Unit:mm

N = Neck Size	F = Face Size	H = Height	D*
N	N + 60	48	14

* when blades are fully opened.

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.

DJ Modular Core Directional Diffuser

■ DJ Air Flow Performance Data

Neck Size (mm x mm)	Neck Vel. (m/s)		1.5	2	2.5	3	3.5	4	4.5	5
	Vel. Press (mmAq)		0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6
	Tot. Press (mmAq)		1.0	1.7	2.7	3.7	5.2	6.7	8.4	10.4
150 X 150	CMH		128	170	213	255	298	340	383	425
	NC		-	-	21	26	30	33	36	39
	Throw (m)	4 Way	0.9 - 2.1	1.8 - 2.4	1.8 - 2.7	2.1 - 3.0	2.1 - 3.0	2.4 - 3.4	2.4 - 3.7	2.7 - 3.7
		3 Way	1.2 - 3.0	2.4 - 3.4	2.7 - 3.7	3.0 - 4.3	3.0 - 4.6	3.4 - 4.9	3.7 - 5.2	3.7 - 5.2
		2 Way	1.2 - 3.0	2.4 - 3.4	2.7 - 3.7	3.0 - 4.3	3.0 - 4.6	3.4 - 4.9	3.7 - 5.2	3.7 - 5.2
1 Way		1.8 - 4.3	3.4 - 4.9	3.7 - 5.5	4.3 - 5.8	3.7 - 6.4	4.9 - 6.7	5.2 - 7.3	5.5 - 7.6	
200 X 200	CMH		226	303	377	456	529	604	680	755
	NC		-	-	22	27	31	35	38	41
	Throw (m)	4 Way	1.5 - 2.7	2.1 - 3.0	2.4 - 3.7	2.7 - 4.0	3.0 - 4.3	3.0 - 4.6	3.4 - 4.9	3.7 - 5.2
		3 Way	2.1 - 4.0	3.0 - 4.6	3.7 - 4.9	4.0 - 5.5	4.3 - 5.8	4.9 - 6.7	4.9 - 6.7	4.9 - 7.0
		2 Way	2.1 - 4.0	3.0 - 4.6	3.7 - 4.9	4.0 - 5.5	4.3 - 5.8	4.9 - 6.7	4.9 - 6.7	4.9 - 7.0
1 Way		3.0 - 5.5	4.6 - 6.4	5.2 - 7.0	5.5 - 7.9	6.1 - 8.5	6.7 - 9.4	6.7 - 9.4	7.0 - 10.1	
250 X 250	CMH		354	473	590	707	826	944	1063	1180
	NC		-	-	24	29	33	36	40	42
	Throw (m)	4 Way	1.5 - 3.0	2.1 - 3.7	2.7 - 4.0	3.0 - 4.3	3.4 - 4.9	3.7 - 5.2	3.7 - 5.5	4.0 - 5.8
		3 Way	1.8 - 4.3	3.0 - 4.9	4.0 - 5.5	4.3 - 6.1	4.6 - 6.7	4.9 - 7.0	5.2 - 7.6	5.5 - 7.9
		2 Way	1.8 - 4.3	3.0 - 4.9	4.0 - 5.5	4.3 - 6.1	4.6 - 6.7	4.9 - 7.0	5.2 - 7.6	5.5 - 7.9
1 Way		2.7 - 6.1	4.6 - 7.0	5.5 - 7.9	6.1 - 8.8	6.7 - 9.4	7.0 - 10.1	7.6 - 10.7	7.9 - 11.3	
300 X 300	CMH		510	680	850	1020	1190	1360	1530	1700
	NC		-	-	25	30	34	38	41	44
	Throw (m)	4 Way	2.4 - 4.3	3.4 - 4.9	3.7 - 5.5	4.3 - 5.8	4.6 - 6.4	4.9 - 6.7	5.2 - 7.3	5.5 - 7.6
		3 Way	3.4 - 5.8	4.6 - 6.1	5.2 - 7.6	5.8 - 8.2	6.4 - 8.8	6.7 - 9.4	7.0 - 10.1	7.6 - 10.7
		2 Way	3.4 - 5.8	4.6 - 6.1	5.2 - 7.6	5.8 - 8.2	6.4 - 8.8	6.7 - 9.4	7.0 - 10.1	7.6 - 10.7
1 Way		4.9 - 8.2	6.7 - 9.4	7.6 - 10.7	8.2 - 11.6	8.8 - 12.8	9.4 - 13.4	10.1 - 14.3	10.7 - 15.2	
350 X 350	CMH		694	925	1158	1389	1620	1851	2083	2314
	NC		-	20	26	31	35	39	42	45
	Throw (m)	4 Way	2.7 - 4.9	4.0 - 5.5	4.3 - 6.1	4.9 - 6.7	5.2 - 7.3	5.5 - 7.9	5.8 - 8.2	6.1 - 8.8
		3 Way	4.0 - 6.7	5.5 - 7.9	6.1 - 8.8	6.7 - 9.4	7.3 - 10.4	7.9 - 11.0	8.2 - 11.6	8.8 - 12.5
		2 Way	4.0 - 6.7	5.5 - 7.9	6.1 - 8.8	6.7 - 9.4	7.3 - 10.4	7.9 - 11.0	8.2 - 11.6	8.8 - 12.5
1 Way		5.8 - 9.8	7.6 - 11.3	8.8 - 12.5	9.8 - 13.7	10.4 - 14.6	11.3 - 15.8	11.9 - 16.8	12.5 - 17.7	
400 X 400	CMH		906	1209	1511	1814	2117	2417	2720	3023
	NC		-	21	27	32	36	39	43	45
	Throw (m)	4 Way	3.4 - 5.5	4.3 - 6.4	5.2 - 7.0	5.5 - 7.9	6.1 - 8.5	6.4 - 9.1	6.7 - 9.4	7.0 - 10.1
		3 Way	4.6 - 7.6	6.1 - 8.8	7.0 - 10.1	7.6 - 11.0	8.2 - 11.9	8.8 - 12.5	9.4 - 13.4	10.1 - 14.0
		2 Way	4.6 - 7.6	6.1 - 8.8	7.0 - 10.1	7.6 - 11.0	8.2 - 11.9	8.8 - 12.5	9.4 - 13.4	10.1 - 14.0
1 Way		6.4 - 11.0	6.1 - 12.8	10.1 - 14.3	11.0 - 15.5	11.9 - 16.8	12.8 - 18.0	13.4 - 19.2	14.3 - 20.1	
450 X 450	CMH		1148	1530	1913	2295	2678	3060	3443	3825
	NC		-	21	27	32	37	40	43	48
	Throw (m)	4 Way	3.7 - 6.1	4.9 - 7.3	5.8 - 7.9	6.1 - 8.8	6.7 - 9.4	7.3 - 10.1	7.6 - 10.7	7.9 - 11.3
		3 Way	5.2 - 8.8	6.7 - 10.1	7.9 - 11.3	8.8 - 12.2	9.4 - 13.4	10.1 - 14.3	10.7 - 14.9	11.3 - 15.8
		2 Way	5.2 - 8.8	6.7 - 10.1	7.9 - 11.3	8.8 - 12.2	9.4 - 13.4	10.1 - 14.3	10.7 - 14.9	11.3 - 15.8
1 Way		7.3 - 12.5	9.8 - 14.3	11.3 - 16.2	12.5 - 17.7	13.4 - 18.9	14.3 - 20.4	15.2 - 21.6	16.2 - 22.6	
500 X 500	CMH		1416	1889	2361	2834	3307	3777	4250	4723
	NC		-	22	28	33	37	41	44	47
	Throw (m)	4 Way	3.7 - 7.0	5.5 - 7.9	6.4 - 8.8	7.0 - 9.8	7.0 - 10.7	7.9 - 11.3	8.5 - 11.9	8.8 - 12.5
		3 Way	5.8 - 9.8	7.6 - 11.3	8.8 - 12.5	9.8 - 13.7	10.4 - 14.6	11.3 - 15.8	11.9 - 16.8	12.5 - 17.7
		2 Way	5.8 - 9.8	7.6 - 11.3	8.8 - 12.5	9.8 - 13.7	10.4 - 14.6	11.3 - 15.8	11.9 - 16.8	12.5 - 17.7
1 Way		7.9 - 13.7	10.7 - 15.8	12.5 - 17.7	13.7 - 19.5	14.9 - 21.0	15.8 - 22.6	16.8 - 23.8	17.7 - 25.3	

• 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 pattern controllers fully opened at 45°.

DJ Modular Core Directional Diffuser

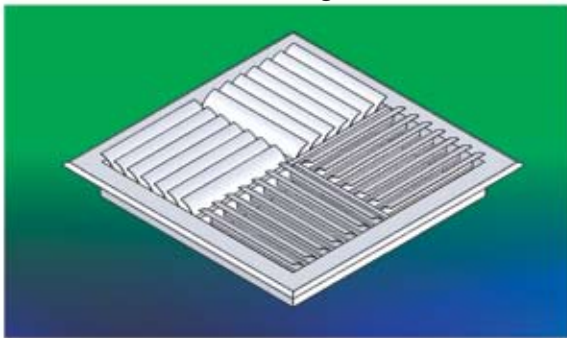
DJ Air Flow Performance Data

Neck Size (mm x mm)	Neck Vel. (m/s)	1.5	2	2.5	3	3.5	4	4.5	5	
	Vel. Press (mmAq)	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	
	Tot. Press (mmAq)	1.0	1.7	2.7	3.7	5.2	6.7	8.4	10.4	
550 X 550	CMFH	1714	2285	2858	3429	4000	4571	6673	5714	
	NC	-	23	29	34	38	41	45	47	
	Throw (m)	4 Way	4.6 - 7.6	5.8 - 8.8	7.0 - 9.8	7.6 - 10.7	8.2 - 11.6	8.8 - 12.5	9.4 - 13.1	9.8 - 13.7
		3 Way	6.1 - 10.7	8.2 - 12.2	9.8 - 13.7	10.7 - 14.9	11.6 - 16.2	12.2 - 17.4	13.1 - 18.3	13.7 - 19.5
		2 Way	6.1 - 10.7	8.2 - 12.2	9.8 - 13.7	10.7 - 14.9	11.6 - 16.2	12.2 - 17.4	13.1 - 18.3	13.7 - 19.5
1 Way		8.8 - 15.2	11.9 - 17.7	13.7 - 19.5	15.2 - 21.3	16.5 - 23.2	17.7 - 24.7	18.6 - 26.2	19.5 - 27.7	
600 X 600	CMFH	2040	2720	3400	4080	4760	5440	6120	6800	
	NC	-	23	29	34	38	42	45	48	
	Throw (m)	4 Way	4.9 - 8.2	6.4 - 9.4	7.6 - 10.7	8.2 - 11.6	8.8 - 12.8	9.4 - 13.4	10.1 - 14.3	10.7 - 15.2
		3 Way	6.7 - 11.6	8.8 - 13.4	10.7 - 14.9	11.6 - 16.5	12.5 - 17.7	13.4 - 18.9	14.3 - 20.1	14.9 - 21.0
		2 Way	6.7 - 11.6	8.8 - 13.4	10.7 - 14.9	11.6 - 16.5	12.5 - 17.7	13.4 - 18.9	14.3 - 20.1	14.9 - 21.0
1 Way		9.8 - 16.5	12.8 - 19.2	15.2 - 21.3	16.5 - 23.5	18.0 - 25.3	19.2 - 27.1	20.4 - 28.7	21.3 - 30.2	

- Throw is based on terminal velocity of 0.5m/s and 0.25m/s respectively.
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- NC value is based on room absorption of 10dB, re 10⁻¹² watts.
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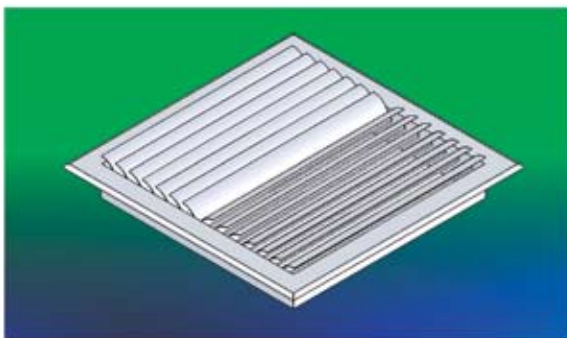
Available Air Pattern Setting



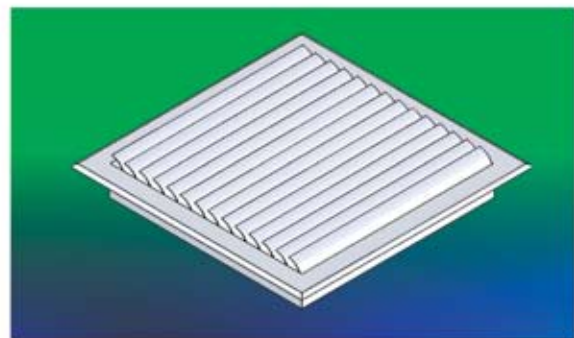
4-Way DJ



3-Way DJ



2-Way DJ



1-Way DJ

DJ Suggested Specification

Type DJ modular core directional diffuser shall consist of an outer frame and modular core with curved blade profile pattern controllers. The pattern controllers shall be adjustable from the diffuser face without using any tools for one, two, three or four way discharge. The diffuser shall have a collar as an integral part of the frame assembly which allows connection to the square duct. The diffuser shall be epoxy coated and furnished to architectural requirement.

DJ Order Code

Model	Material	Neck Size (mm)	Accessories
DJ	A (Aluminum)	Custom	G1

Example: DJ-A-N500mmX500mm-G1

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