

Jet-Diffusers-Ring-Type Diffusers

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Jet-Diffusers-Ring-Type Diffusers

CONSTRUCTION:

Frame: High quality heavy gauge aluminium sheet.

Outer flange: High quality extruded aluminium profiles.

Inner rings: Aluminium spun rings.

Optional accessories: Plenum box either lined or un lined as per clients choice.

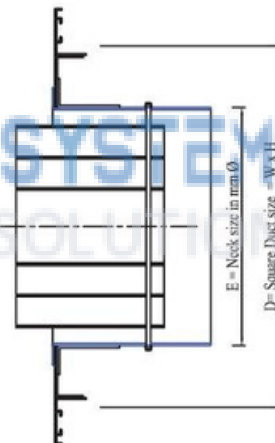


Description:

- Frame and inner rings are high quality aluminium construction with the advantages of corrosion resistance.
- Jet nozzle section is mounted in aluminium square plate covered by flanged border.
- Nozzles can be adjusted 30° upwards and downwards to achieve required throw as per site condition. Nozzle jet can be rotated by 360° by adjusting the mounting frame.
- Generally designed for wall mounting. For ceiling mounting, drill 2 to 4 holes in the face of the flanged border.
- Air master jet diffusers are specially suitable to handle large quantity of air with long throw.
- Ideal for commercial use such as concert halls, theatres, exhibition and sport halls.
- Jet nozzles can be supplied with plenum box, which is manufactured from galvanized steel sheet as option.
- Plenum boxes can be supplied with round duct damper at the spigot as option.

Standard finishes:

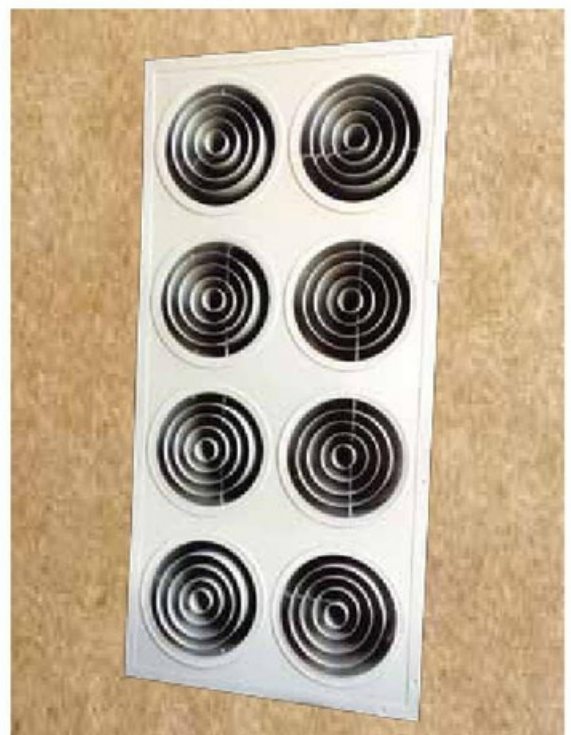
- Powder coated colour finish as per RAL colour codes.
- Flexibility of finishing is available



Standard sizes:

- Available from 100 mm dia to 400 mm dia with the increments of 50 mm.

D = Dia of jet diffuser in mm						
100	150	200	250	300	350	400



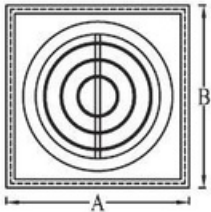
Jet-Diffusers-Ring-Type Diffusers

Fixing details:

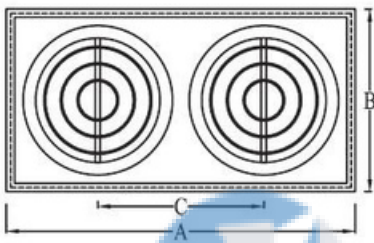
- Screw fixing from flange to duct.

Panel arrangement:

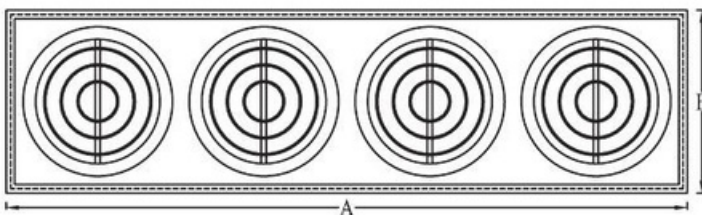
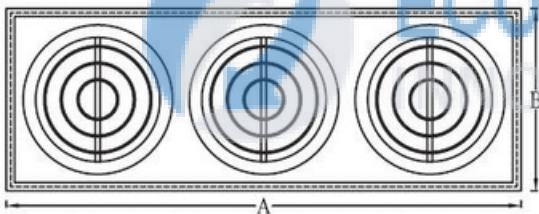
- 1,2,3 or 4 nos of jet diffusers will be arranged in a panel as per performance requirement.



Model	Duct size L X W in	A	B	(Ø) E
AJD 100-P	200X200	250	250	100
AJD 150-P	250X250	300	300	150
AJD 200-P	300X300	350	350	200
AJD 250-P	350X350	400	400	250
AJD 300-P	400X400	450	450	300
AJD 350-P	450X450	500	500	350
AJD 400-P	500X500	550	550	400



Model	Duct size L X W in	A	B	C
AJD 100-2P	390X200	440	250	200
AJD 100-3P	580X200	630	250	200
AJD 100-4P	790X200	840	250	200
AJD 150-2P	490X250	540	300	250
AJD 150-3P	730X250	780	300	250
AJD 150-4P	990X250	1040	300	250
AJD 200-2P	590X300	640	350	300
AJD 200-3P	880X300	930	350	300
AJD 200-4P	1190X300	1240	350	300
AJD 250-2P	690X350	740	400	350
AJD 250-3P	1030X350	1080	400	350
AJD 250-4P	1390X350	1440	400	350
AJD 300-2P	790X400	840	450	400
AJD 300-3P	1180X400	1230	450	400
AJD 300-4P	1590X400	1640	450	400
AJD 350-2P	890X450	940	500	450
AJD 350-3P	1330X450	1380	500	450
AJD 350-4P	1770X450	1820	500	450
AJD 400-2P	990X500	1040	550	500
AJD 400-3P	1480X500	1530	550	500
AJD 400-4P	1970X500	2020	550	500



How to order:

Model	Size	No of diffusers/panel	Quantity	Finish	Optional Accessories
AJD	Specify neck diameter of the inner round diffuser	P	Specify in numbers	B = RAL 9010	Plenum box
		2P		C = Other RAL colors	
		3P			
		4P			

Ordering example:

- To select jet diffuser of size 150 mm dia, 4 diffusers arranged in one panel, quantity = 25 nos with RAL 9010 colour.

Order as : AJD 150 - 4P - 25 - B.

Jet-Diffusers-Ring-Type Diffusers

Table 11.1 (A) Air flow data
Jet diffuser at 0° position

Size in mm dia	Neck velocity in m/sec	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0
Neck area in sq mt	P _v =vel pr loss in mm H ₂ O	0.15	0.25	0.41	0.56	0.79	1.016	1.57	2.29	3.1
100 0.0079	Cfm	30	40	50	60	70	80	90	110	130
	M ³ /sec.	0.0141	0.0189	0.0236	0.0283	0.0331	0.0378	0.0425	0.052	0.0614
	P _s in mm H ₂ O	<0.25	<0.25	0.76	1.22	1.65	2.37	3.08	3.68	6.0
	Throw in m	2.7	3.1	3.4	3.8	3.9	4.2	4.2	4.5	4.7
	NC	<15	<15	15	16	22	24	33	36	42
150 0.0177	Cfm	60	80	100	120	140	160	200	240	280
	M ³ /sec.	0.0283	0.0378	0.0472	0.0567	0.066	0.0756	0.0945	0.113	0.132
	P _s in mm H ₂ O	<0.25	<0.25	0.51	0.76	1.27	1.25	2.06	3.35	4.75
	Throw in m	3.0	3.9	4.5	4.8	4.8	5.7	6.4	7.1	7.7
	NC	<15	<15	15	16	24	26	33	37	43
200 0.0314	Cfm	110	140	180	210	250	280	350	420	490
	M ³ /sec.	0.052	0.066	0.085	0.099	0.118	0.132	0.165	0.198	0.231
	P _s in mm H ₂ O	<0.25	0.254	0.51	0.61	1.02	1.54	2.51	4.19	6.15
	Throw in m	4.3	5.8	6.1	6.9	7.1	7.8	8.5	8.9	15
	NC	<15	<15	15	16	24	27	33	37	43
250 0.049	Cfm	170	220	280	330	390	440	550	660	770
	M ³ /sec.	0.08	0.104	0.132	0.156	0.184	0.208	0.26	0.312	0.364
	P _s in mm H ₂ O	<0.25	<0.25	0.25	0.46	0.76	1.12	1.5	2.12	2.79
	Throw in m	6.4	7.7	7.9	8.8	8.8	9.7	10.2	11.27	18
	NC	<15	<15	15	16	25	27	34	38	44
300 0.071	Cfm	240	320	400	480	550	630	790	950	1100
	M ³ /sec.	0.113	0.151	0.189	0.227	0.26	0.298	0.373	0.449	0.519
	P _s in mm H ₂ O	<0.25	<0.25	<0.25	0.9	1.02	1.4	1.4	1.67	2.79
	Throw in m	7.6	8.6	9.2	9.7	10.0	10.6	12.3	12.53	12.8
	NC	<15	<15	15	16	27	29	34	38	45
350 0.096	Cfm	330	430	540	650	750	860	1070	1290	1500
	M ³ /sec.	0.156	0.203	0.255	0.307	0.354	0.406	0.505	0.609	0.708
	P _s in mm H ₂ O	<0.25	<0.25	<0.25	0.84	0.78	0.88	1.17	1.46	3.5
	Throw in m	8.2	9.6	10.1	11.5	11.9	12.3	13	15.5	17.6
	NC	<15	<15	15	17	27	29	35	39	45
400 0.126	Cfm	420	560	700	840	980	1120	1400	1680	1960
	M ³ /sec.	0.198	0.264	0.331	0.397	0.463	0.529	0.66	0.793	0.926
	P _s in mm H ₂ O	<0.25	<0.25	<0.25	0.62	0.92	1.17	1.46	1.75	2.04
	Throw in m	9.1	10.9	11.5	12.8	12.7	13.9	16.3	18.5	20.8
	NC	<15	<15	15	17	29	31	36	41	46

- Neck velocity is measured in m/sec.
- P_s & P_v = Static and dynamic pressure losses across the diffuser in mm of H₂O.
- Throw (meters) is measured for a terminal velocities of 0.25 m/sec.
- NC based on room attenuation of 10 dB.

Jet-Diffusers-Ring-Type Diffusers

**Table 11.1(B) Air flow data
Jet diffuser at 30° position**

Size in mm dia	Neck velocity in m/sec	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0
Neck area in sq mt	P _v =vel pr loss in mm H ₂ O	0.15	0.25	0.41	0.56	0.79	1.016	1.57	2.29	3.1
100	Cfm	30	40	50	60	70	80	90	110	130
	M ³ /sec.	0.0141	0.0189	0.0236	0.0283	0.0331	0.378	0.0425	0.052	0.614
	P _s in mm H ₂ O	<0.25	<0.25	1.67	1.81	2.8	3.4	4.3	6.2	8.7
	Throw in m	2.4	2.4	2.7	2.9	3.4	3.7	4.0	4.3	4.6
	NC	<15	<15	<15	19	24	32	36	40	44
150	Cfm	60	80	100	120	140	160	200	240	280
	M ³ /sec.	0.0283	0.0378	0.0472	0.0567	0.066	0.756	0.0945	0.113	0.132
	P _s in mm H ₂ O	0.51	<0.75	1.4	1.4	1.76	2.13	3.64	5.8	8.5
	Throw in m	2.4	3.0	3.7	4.6	5.0	5.5	6.1	6.7	7.0
	NC	<15	<15	<15	19	24	33	36	40	45
200	Cfm	110	140	180	210	250	280	350	420	490
	M ³ /sec.	0.052	0.066	0.085	0.099	0.118	0.132	0.165	0.198	0.231
	P _s in mm H ₂ O	<0.25	0.51	0.84	1.11	1.71	2.85	3.41	6.1	8.7
	Throw in m	3.7	5.2	5.5	6.1	6.4	7.0	7.6	8.2	8.5
	NC	<15	18	18	19	24	33	37	40	45
250	Cfm	170	220	280	330	390	440	550	660	770
	M ³ /sec.	0.08	0.104	0.132	0.156	0.184	0.208	0.26	0.312	0.364
	P _s in mm H ₂ O	<0.25	0.51	0.84	1.11	1.42	1.76	2.6	3.8	7.0
	Throw in m	5.5	6.1	6.4	7.3	8.3	8.5	9.5	10.1	10.7
	NC	<15	<15	15	20	25	33	37	42	46
300	Cfm	240	320	400	480	550	630	790	950	1100
	M ³ /sec.	0.113	0.151	0.189	0.227	0.26	0.298	0.373	0.449	0.519
	P _s in mm H ₂ O	<0.25	<0.25	0.7	1.11	1.42	2.85	2.56	2.9	5.8
	Throw in m	6.4	7.0	7.9	8.5	9.5	9.8	11.6	12.2	12.5
	NC	<15	<15	<15	21	27	34	38	43	47
350	Cfm	330	430	540	650	750	860	1070	1290	1500
	M ³ /sec.	0.156	0.203	0.255	0.307	0.354	0.406	0.505	0.609	0.708
	P _s in mm H ₂ O	<0.25	<0.25	0.73	1.14	1.14	1.42	1.71	2.9	7.3
	Throw in m	7.0	7.9	9.5	10.1	11.0	11.9	12.5	14.0	15.2
	NC	<15	<15	<15	21	27	36	38	43	47
400	Cfm	420	560	700	840	980	1120	1400	1680	1960
	M ³ /sec.	0.198	0.264	0.331	0.397	0.463	0.529	0.66	0.793	0.926
	P _s in mm H ₂ O	<0.25	<0.25	0.84	1.06	0.63	0.85	1.17	2.05	2.5
	Throw in m	8.2	9.8	11.0	11.9	12.5	13.1	14.6	16.4	18.3
	NC	15	<15	<15	22	28	36	39	43	47

- Neck velocity is measured in m/sec.
- P_s & P_v = Static and dynamic pressure losses across the diffuser in mm of H₂O.
- Throw (meters) is measured for a terminal velocities of 0.25 m/sec.
- NC based on room attenuation of 10 dB.

Jet-Diffusers-Ring-Type Diffusers

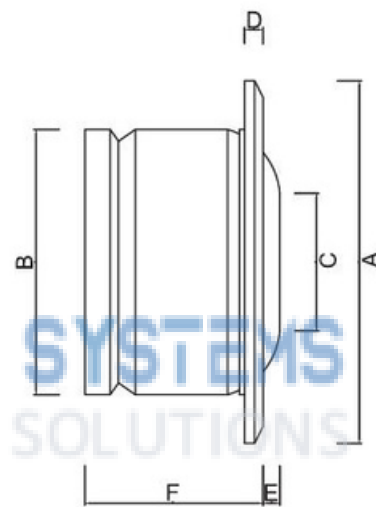
CONSTRUCTION:

- Constructed from high quality aluminium sheets.



Description:

- Airmaster eyeball jet diffusers are highly suitable for delivering a powerful stream of air over long distances.
- Its ability to deliver an accurate airstream makes it ideal for spot cooling applications.
- It's angular movement allows the airstream to be delivered through a wide area of direction either in full jet position or in reduced jet position.
- This diffuser spout is fully reversible, rotating through 180deg.
- The diffuser can be fixed directly to the round duct.
- The diffuser is suitable for long throw patterns with trajectory control.
- Gasket is sealed around the back of the spout to avoid air leakage.



Dimensions of various sizes:

Size	A	B	C	D	E	F
160	216	158	82	11	10	106
200	273	198	108	16	14	127
250	318	248	136	16	23	159
315	400	313	174	23	29	189
400	483	398	230	24	47	223

Standard finishes:

- Available standard finishes are RAL 9010, RAL 9003 & RAL 9016.
- Special finishes are available as per RAL color Codes



Jet-Diffusers-Ring-Type Diffusers

Table - Air flow data

Size in mm dia	Neck velocity in m/sec	2.5	3.0	3.5	4.0	4.5	5.0	5.5
Neck area in sq.mt.								
160	L/S	12	15	18	21	24	26	28
	M ³ /sec	0.012	0.015	0.018	0.021	0.024	0.026	0.028
	CFM	25	32	38	44	51	55	59
	P in mm H ₂ O	0.43	0.54	0.64	0.87	1.13	1.295	1.472
	Throw in m	3.7 - 5.6	4.3 - 6.5	4.9 - 7.3	5.7 - 8.6	6.6 - 9.9	7.1 - 10.7	7.7-11.5
0.0201	NC	<15	<15	<15	16	17	18	19
200	L/S	22	25	30	35	40	44	50
	M ³ /sec	0.022	0.025	0.03	0.035	0.04	0.044	0.05
	CFM	46	53	63	74	85	93	106
	P in mm H ₂ O	0.635	0.77	1.044	1.336	1.589	1.858	2.366
	Throw in m	5.1 - 7.6	5.7 - 8.6	6.8 - 10.2	7.9 - 11.9	8.8 - 13.2	9.6 - 14.4	11.1 - 16.7
0.0314	NC	<15	<15	16	17	18	19	20
250	L/S	34	41	48	54	61	68	75
	M ³ /sec	0.034	0.041	0.048	0.054	0.061	0.068	0.075
	CFM	72	87	102	114	129	144	159
	P in mm H ₂ O	0.446	0.611	0.795	0.968	1.187	1.424	1.678
	Throw in m	6.4 - 9.6	7.7 - 11.5	8.9 - 13.4	10.0 - 15.0	11.2 - 16.9	12.5 - 18.7	13.7 - 20.6
0.049	NC	<15	<15	17	18	19	20	22
315	L/S	57	68	80	92	102	115	125
	M ³ /sec	0.057	0.068	0.08	0.092	0.102	0.115	0.125
	CFM	121	144	169	195	216	243	265
	P in mm H ₂ O	0.66	0.871	1.126	1.403	1.651	1.994	2.274
	Throw in m	6.8 - 9.8	7.7 - 11.6	9.0 - 13.4	10.3 - 15.4	11.3 - 17.0	12.7 - 19.0	13.7 - 20.6
0.0201	NC	<15	<15	18	19	20	21	22
400	L/S	127	152	182	217	252	287	323
	M ³ /sec	0.127	0.152	0.182	0.217	0.252	0.287	0.323
	CFM	269	322	385	459	534	608	684
	P in mm H ₂ O	0.81	1.1	1.39	1.64	1.89	2.18	2.47
	Throw in m	6.8 - 10.1	9.2 - 12.5	11.7 - 14.9	14.2 - 17.4	16.8 - 20.0	19.4 - 22.5	22.0 - 25.0
0.1257	NC	<15	<15	16	18	19	21	23

- Neck velocity is measured in m/sec.
- P = Pressure losses across the diffuser in mm of H₂O
- Throw (meters) is measured for a terminal velocity of 0.5 m/sec and 0.25 m/sec.
- Noise criteria (NC) is based on a room attenuation of 10dB.

Jet-Diffusers-Ring-Type Diffusers

Table - Air flow data

Size in mm dia	Neck velocity in m/sec	6.0	7.0	7.5	8.0	8.5	9.0	9.5
Neck area in sq.mt.								
160	L/S	30	35	37	40	43	45	48
	M ³ /sec	0.03	0.035	0.037	0.04	0.043	0.045	0.048
	CFM	63	74	78	85	91	95	102
	P in mm H ₂ O	1.751	2.3	2.4	2.8	3.0	3.4	3.6
	Throw in m	8.5 - 12.8	9.9 - 14.9	10.5 - 15.7	11.3 - 17.0	11.9 - 17.8	12.7 - 19.1	12.3 - 19.9
	NC	20	21	22	23	24	24	25
200	L/S	55	60	64	69	73	78	82
	M ³ /sec	0.055	0.06	0.064	0.069	0.073	0.078	0.082
	CFM	116	127	136	146	155	165	174
	P in mm H ₂ O	2.757	3.169	3.5	3.8	4.3	4.8	5.2
	Throw in m	12.2 - 18.3	13.3 - 19.9	14.1 - 21.1	14.9 - 22.4	16.0 - 24.0	17.0 - 26.0	18.0 - 27.0
	NC	22	24	25	26	28	28	29
250	L/S	81	95	102	109	115	123	130
	M ³ /sec	0.081	0.095	0.102	0.109	0.115	0.123	0.13
	CFM	171	201	216	231	244	261	276
	P in mm H ₂ O	1.908	2.5	2.807	3.136	3.431	3.787	4.212
	Throw in m	14.8 - 22.1	17.2 - 25.8	18.4 - 27.6	19.6 - 29.5	20.7 - 31.0	21.9 - 32.8	23.3 - 34.9
	NC	24	26	27	28	29	29	30
315	L/S	136	141	160	181	193	205	216
	M ³ /sec	0.136	0.141	0.16	0.181	0.193	0.205	0.216
	CFM	288	298	340	384	410	435	458
	P in mm H ₂ O	2.598	2.719	3.356	4.04	4.51	4.921	5.346
	Throw in m	14.9 - 22.3	15.3 - 22.9	17.3 - 26.6	19.4 - 29.0	20.7 - 31.0	21.8 - 32.7	22.9 - 34.3
	NC	23	24	25	26	27	29	30
400	L/S	363	405	447	482	527	569	610
	M ³ /sec	0.363	0.405	0.447	0.482	0.527	0.569	0.61
	CFM	769	858	949	1023	1119	1208	1295
	P in mm H ₂ O	2.76	3.6	3.6	3.95	4.35	4.8	5.25
	Throw in m	24.1 - 27.4	25.5 - 30.0	26.7 - 32.2	28.2 - 35.2	30.1 - 37.1	32.8 - 39.1	33.3 - 40.1
	NC	25	27	29	30	31	32	33

- Neck velocity is measured in m/sec.
- P = Pressure losses across the diffuser in mm of H₂O
- Throw (meters) is measured for a terminal velocity of 0.5 m/sec and 0.25 m/sec.
- Noise criteria (NC) is based on a room attenuation of 10dB.

Jet-Diffusers-Ring-Type Diffusers

Table - Air flow data

Size in mm dia	Neck velocity in m/sec	10.0	10.5	11.0	11.5	12.0
Neck area in sq.mt.						
160	L/S	50	53	55	58	63
	M3 /sec	0.05	0.053	0.055	0.058	0.063
	CFM	106	112	117	123	134
	P in mm H2O	4.0	4.3	4.7	5.0	5.3
0.0201	Throw in m	14.1 - 21.2	14.7 - 22.0	15.5 - 23.3	16.1 - 25.0	17.0 - 25.6
	NC	26	27	28	29	30
200	L/S	86	90	95	99	105
	M3 /sec	0.086	0.09	0.095	0.099	0.105
	CFM	182	191	201	210	223
	P in mm H2O	5.5	6.06	6.61	6.95	7.22
0.0314	Throw in m	18.5 - 28.0	19.5 - 29.3	20.6 - 30.0	21.2 - 31.8	22.6 - 33.4
	NC	30	32	33	34	35
250	L/S	136	143	150	158	165
	M3 /sec	0.136	0.143	0.150	0.158	0.165
	CFM	289	303	318	335	350
	P in mm H2O	4.487	4.94	5.352	5.776	6.025
0.049	Throw in m	24.1 - 36.2	25.5 - 38.3	26.7 - 40.1	27.9 - 41.9	30.1 - 44.0
	NC	31	32	33	34	35
315	L/S	228	239	250	264	275
	M3 /sec	0.228	0.239	0.250	0.264	0.275
	CFM	484	507	531	560	584
	P in mm H2O	5.783	6.316	6.78	7.388	7.654
0.0779	Throw in m	24.0 - 36.0	25.3 - 37.9	26.4 - 39.6	27.8 - 41.6	28.4 - 42.5
	NC	31	33	34	35	37
400	L/S	655	700	742	787	837
	M3 /sec	0.655	0.7	0.742	0.787	0.837
	CFM	1390	1486	1575	1671	1777
	P in mm H2O	5.75	6.15	6.6	7.05	7.60
0.1257	Throw in m	35.2 - 42.2	37.1 - 43.1	39.2 - 44.9	40.7 - 46.8	42.1 - 48.6
	NC	34	35	37	39	40

- Neck velocity is measured in m/sec.
- P = Pressure losses across the diffuser in mm of H2O
- Throw (meters) is measured for a terminal velocity of 0.5 m/sec and 0.25 m/sec.
- Noise criteria (NC) is based on a room attenuation of 10dB.

Jet-Diffusers-Ring-Type Diffusers

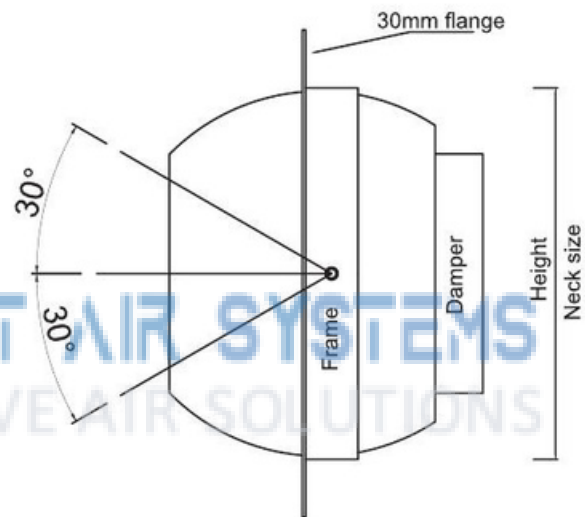
CONSTRUCTION:

- **Frame:** High quality extruded aluminium profiles of 1.2mm thick.
- **Drum :** Aluminium sheet and specially shaped extruded aluminium profiles.
- **Blades :** High quality extruded aluminium adjustable blades.
- **Damper:** Opposed blade damper made of high quality extruded aluminium profiles.



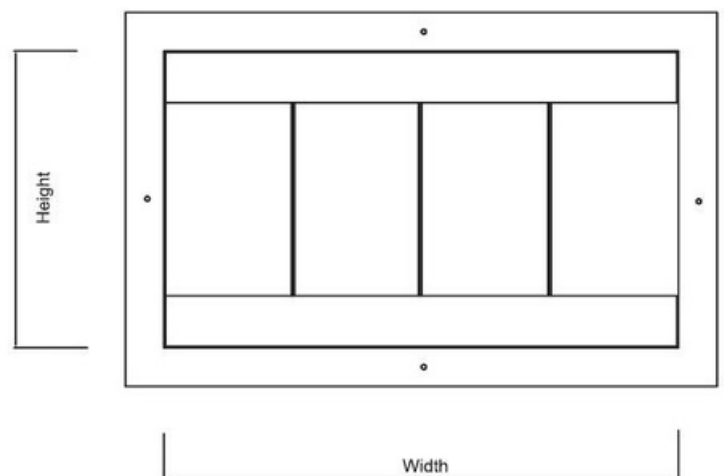
Description:

- Blades are fixed inside the drum body made of aluminium sheets and specially shaped profiles and the opposed blade damper is attached to the drum body. The whole assembly is fixed to the frame by mechanical fasteners so as to enable rotation in the vertical direction.
- The opposed blade damper in supply diffuser can be easily adjusted through the face of the unit by means of screw driver.
- The louver is suitable for both long and short throw patterns with trajectory control.
- The drum can be adjusted in the vertical direction 0° to 30° up or down to direct the air throw in the desired direction.
- Foam gasket is sealed around the back of the frame to avoid air leakage.
- Flange width is 30mm as standard.



Standard finishes:

- Aluminium construction with white powder coated finish (RAL 9010).
- Powder coated color finish as per other RAL color codes available as option.



Jet-Diffusers-Ring-Type Diffusers

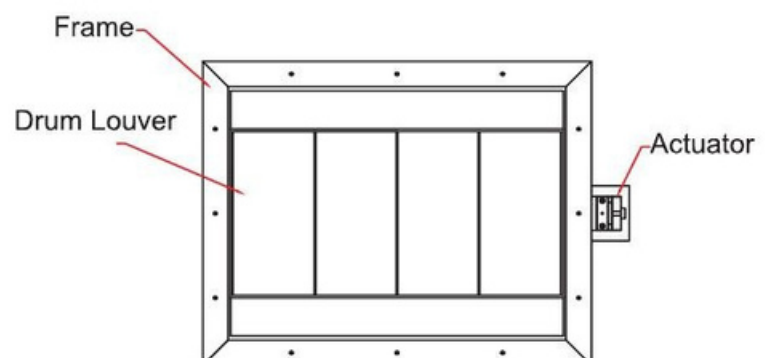
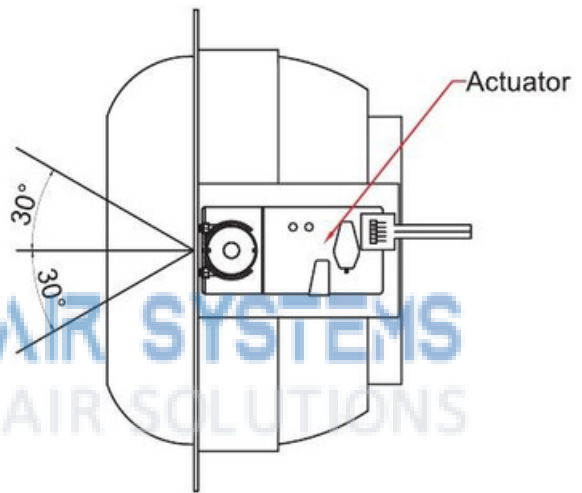
CONSTRUCTION:

- **Frame & Blades** : High quality extruded aluminium profiles.
- **Drum** : Specially shaped extruded aluminium profiles at top and bottom, covered on either sides by thick aluminium plates.
- **Damper** : Opposed blade damper made of high quality aluminium profiles.
- **Control** : The degree of rotation can be electronically controlled.



Description:

- Drum body is made of specially shaped curved profile to enable smooth rotation of the drum in the vertical direction.
- Can handle high volume of air at comparatively lower pressure drop thus making it suitable for application in large areas like warehouses, sports complex, reception halls, airports and so on.
- Blades are fixed inside the drum body and can be adjusted individually in any direction.
- Opposed blade damper is directly attached to the drum body. It can be easily adjusted through the face of the unit by means of screw driver.
- The whole assembly is fixed to the frame by mechanical fasteners such that the drum position can be easily adjusted.
- The louver is suitable for both long and short throw patterns with trajectory control.
- The drum can be adjusted in both vertical directions from 0° to 30° to direct the air throw in the desired direction.
- Air leakage through the gap between Drum and Frame is arrested by sealing the frame with foam gasket.



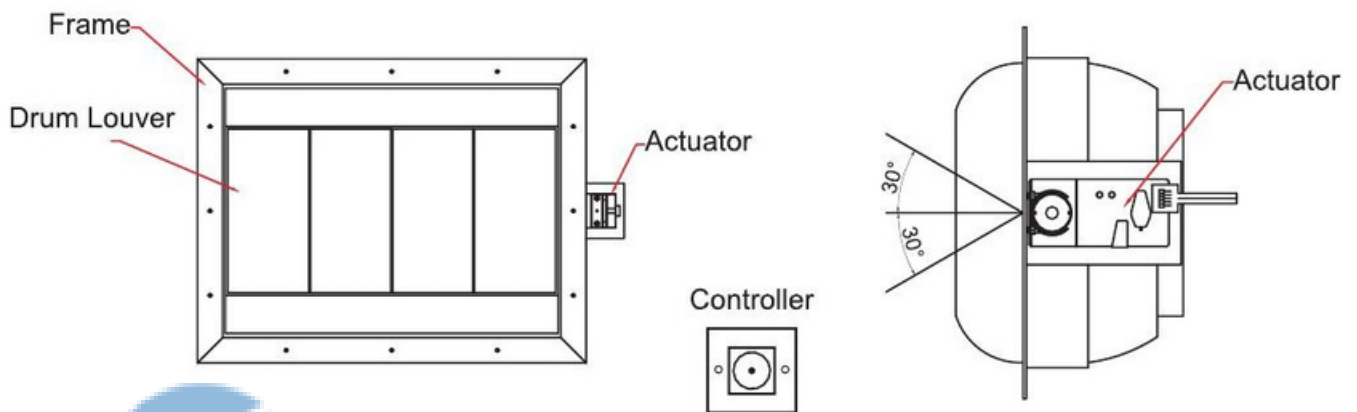
Standard finishes:

- Aluminium construction with white powder coated finish (RAL 9010).
- Powder coated color finish as per other RAL color codes available as option.

Jet-Diffusers-Ring-Type Diffusers

Automation :

Airmaster Drum Louvers can be controlled electronically. The louver can be set at any desired position to have better control over the direction of throw. Motorized drum louvers gives the liberty of changing the direction of airflow as per the requirement.



Controls Option 1: (Using Positioner)

The position of louver can be remotely controlled using a simple positioner. The control range is from 0 to 100% of the angle of rotation of the actuator. The output voltage (0-10V) to the actuator can be controlled using a knob.



Controls Option 2: (Using Keypad or Touch Screen Interface)

The position can be controlled using a keypad. Each key in the keypad can be programmed to determine the degree of rotation of the actuator. These designer keypads are embedded into elegantly crafted aluminium architectural faceplates in a variety of luxurious finishes. Multiple louvers can be controlled in touch of a button.

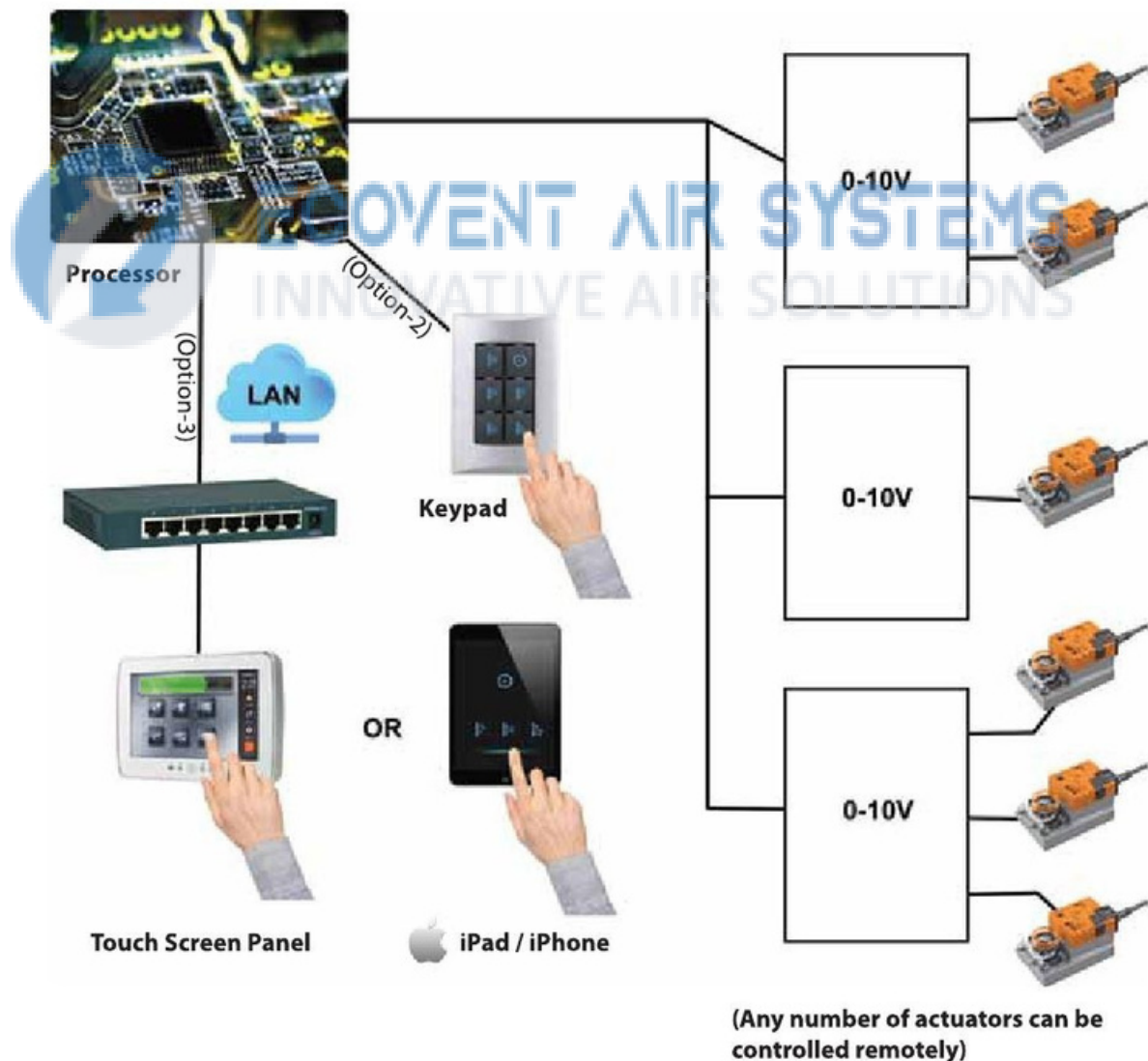


Jet-Diffusers-Ring-Type Diffusers

Controls Option 3: (Using LAN / WLAN)

This is a highly advanced option for better control of louvers using LAN/WLAN network. The position of the louver can be controlled from a touch screen when in the local vicinity. Louvers can also be controlled using an iPad/iPhone sitting in any part of the world.

This option is also suitable for BMS monitoring and position control using BACnet/ IP communication protocols.



Jet-Diffusers-Ring-Type Diffusers

Table - Air flow data

Neck Velocity	Size	175x200	550x200	1100x200 850x250 750x300	1600x200 1250x250 1000x300 750x375	1750x250 1500x300 1000x375	1750x300 1250x375
1	CFM	83	261	475	651	914	1363
	NC	<15	<15	<15	<15	<15	<15
	P _s in mm of H ₂ O	0.45	0.275	0.20	0.175	0.125	0.1
	THROW in M	1-1.2-1.5	3.9-5.8-8.8	4.6-6.0-10.0	7-9.1-14.3	7.3-9.4-15.2	7.0-10.4-17.9
1.5	CFM	124	390	713	974	1373	1615
	NC	<15	15	<15	<15	<15	<15
	P _s in mm of H ₂ O	1.025	0.675	0.375	0.375	0.3	0.275
	THROW in M	1.8-2.1-3.7	4.5-6.0-10.0	7.0-9.1-14.3	7.6-9.7-15.8	7.6-10.6-17.9	8.2-10.6-19.2
2	CFM	162	523	950	1297	1829	2157
	NC	15	16	15	15	16	17
	P _s in mm of H ₂ O	1.75	1.15	0.7	0.7	0.55	0.525
	THROW in M	2.7-3.7-6.0	5.8-7.6-12.1	7.6-9.8-15.8	9.1-11.5-18.2	9.4-12.1-21.3	10.0-13.1-21.9
2.5	CFM	204	651	1188	1625	2285	2693
	NC	16	18	20	21	23	25
	P _s in mm of H ₂ O	2.8	1.825	1.05	1.05	0.85	0.8
	THROW in M	3.4-4.9-7.3	7-9.1-14.3	8.8-11.9-18.6	10.3-13.1-21.3	12.8-15.8-27.4	13.1-16.7-30.4
3	CFM	247	781	1425	1948	2741	3230
	NC	18	23	28	30	32	31
	P _s in mm of H ₂ O	4.125	2.7	1.575	1.575	1.25	1.175
	THROW in M	4.0-5.8-8.8	7.9-10.9-16.7	10.9-14.0-21	13.4-16.1-24.9	14.3-17.9-30.4	17.3-21.3-37.4
3.5	CFM	285	912	1663	2275	3197	3772
	NC	24	30	33	33	35	35
	P _s in mm of H ₂ O	5.475	3.625	2.175	2.175	1.7	1.6
	THROW in M	4.9-6.4-9.8	9.4-12.4-18.8	13.1-15.8-24.9	14.6-17.9-27.7	17.0-21.0-36.5	20.1-25.9-43.0
4	CFM	333	1040	1900	2598	3658	4308
	NC	27	35	39	40	40	43
	P _s in mm of H ₂ O	7.475	4.5	2.825	2.825	2.2	2.05
	THROW in M	5.4-7.0-10.7	10.0-13.1-20.1	14.3-17.0-27.7	16.4-19.8-30.4	19.8-24.0-41.1	23.1-25.9-48.7
4.5	CFM	380	1173	2138	2921	4114	4850
	NC	31	39	43	44	47	48
	P _s in mm of H ₂ O	9.8	5.975	3.55	3.55	2.775	2.6
	THROW in M	5.8-7.9-11.6	10.7-14.0-21.0	15.2-18.2-29.5	18.5-21.9-33.8	21.3-25.9-43.5	25.9-32.3-53.3
5	CFM	413	1302	2375	3249	4570	5387
	NC	36	43	47	48	49	50
	P _s in mm of H ₂ O	11.55	7.2	4.425	4.425	3.45	3.225
	THROW in M	6.0-8.2-11.9	10.9-14.3-21	16.4-19.2-30.4	18.8-22.2-34.1	22.2-24.3-45.7	26.2-33.5-54.8

- Neck velocity is measured in m/sec.
- P_s Static pressure in mm of H₂O.
- Throw (meters) is measured for a terminal velocity of 0.75, 0.5 and 0.25 m/sec.
- NC based on a room attenuation of 10 dB.