

# Technical Data Sheet

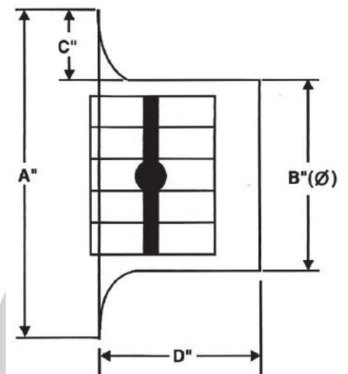


AirQon Synergies

## D10 Jet Flow diffusers

### PRODUCT DESCRIPTION

- The turbo nozzle and rings (cores) are aluminium alloy with high quality construction.
- The inner concentric rings of jet can be adjusted in ways, Vertical and horizontal.
- Best suitable for places such as Airports, Auditorium, long entrances and walk ways (Horizontal discharge), gymnasiums and swimming pools etc. (Vertical discharge).
- The housing and inner rings are designed for high volume long throw application.
- Suitable for sidewall and ceiling mountings from one to four diffuser elements per assembly.
- Standard finish is white, painted under electrostatic polyester powder coated system, other colors available on request. The polyester powder of highest quality is used to enhance the appearance of the units.
- Available with butterfly damper as option.



MODEL	SIZE (Inches)	A	B	C	D	NO. OF RINGS
DJ16-8	8"	12	8	2	6	1 - TO - 2
DJ16-10	10"	14	10	2	6	1 - TO - 3
DJ16-12	12"	16	12	2	6	1 - TO - 4
DJ16-14	14"	18	14	2	6	1 - TO - 5
DJ16-16	16"	20	16	2	6	1 - TO - 6
DJ16-18	18"	22	18	2	6	1 - TO - 7

## D10P Panel Mounted Jet Flow Diffuser

### PRODUCT DESCRIPTION

- The popular turbo nozzle is available in a panel mount design as shown in above figure.
- One, two, three or four jet diffuser elements per panel can be selected.
- The rings can be controlled in both horizontal and vertical direction through pivot linkage bolt (universal ball joint) mounted in a three-leg bracket connected to the turbo nozzle.



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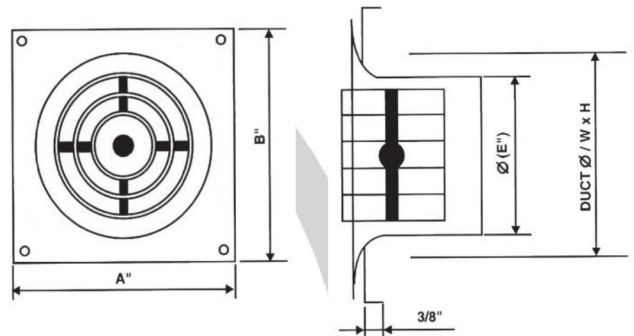


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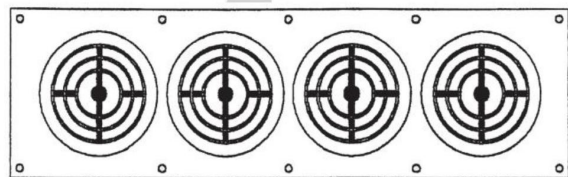
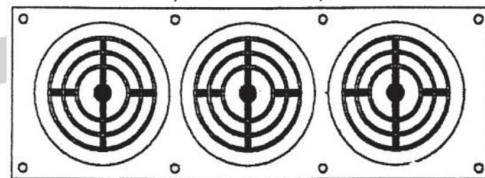
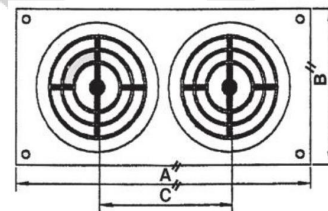
## D10M Jet Flow Diffusers (multi Element)

- The rings are assembled together with an aluminium rod of 10 mm diameter.
- The turbo nozzle (element) and rings (cores) are made of aluminium and the panel made up of 20 gauge G.I. Steel.
- Standard finish is white, painted under electrostatic polyester powder coated system. Other colors available on request, the polyester powder of highest quality are used to enhance the appearance of the units.

MODEL	DUCT SIZE (Inches)		A	B	(Diameter) E
	SQUARE W x H	ROUND			
<b>D10-8</b>	10 x 10	10	1	15	8
<b>D10-10</b>	12 x 12	12	1	17	10
<b>D10-12</b>	14 x 14	14	1	19	12
<b>D10-14</b>	16 x 16	16	2	21	14
<b>D10-16</b>	18 x 18	18	2	23	16
<b>D10-18</b>	20 x 20	20	2	25	18



MODEL	SIZE	A	B	C
<b>D10-8-2M</b>	8 x 2	29	15	14
<b>D10-8-3M</b>	8 x 3	43	15	14
<b>D10-8-4M</b>	8 x 4	57	15	14
<b>D10-10-2M</b>	10 x 2	33	17	16
<b>D10-10-3M</b>	10 x 3	49	17	16
<b>D10-10-4M</b>	10 x 4	65	17	16
<b>D10-12-2M</b>	12 x 2	37	19	18
<b>D10-12-3M</b>	12 x 3	55	19	18
<b>D10-12-4M</b>	12 x 4	73	19	18
<b>D10-14-2M</b>	14 x 2	41	21	20
<b>D10-14-3M</b>	14 x 3	61	21	20
<b>D10-14-4M</b>	14 x 4	81	21	20
<b>1J16-16-2M</b>	16 x 2	45	23	22
<b>D10-16-3M</b>	16 x 3	67	23	22
<b>D10-16-4M</b>	16 x 4	89	23	22
<b>D10-18-2M</b>	18 x 2	49	25	24
<b>D10-18-3M</b>	18 x 3	73	25	24
<b>D10-18-4M</b>	18 x 4	97	25	24



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AirQon Synergies

## Performance Chart

size	Neck Velocity (fpm)		787	985	1180	1380	1575	1970	2360	2755	3150
	Pressure(in.wg)		0.075	0.118	0.169	0.236	0.315	0.472	0.669	0.945	1.220
<b>8"</b>	Neck Area	CFM	294	353	412	471	588	706	824	942	105
	sqft. 0.349	SP (in.wg)	0.076	0.120	0.169	0.233	0.305	0.4	0.670	0.927	1.22
		NC	22	27	34	37	42	47	54	58	62
		Throw(ft)	29	36	42	45	55	72	78	91	104
<b>10"</b>	Neck Area	CFM	412	529	647	706	824	103	1294	1471	164
	sqft. 0.545	SP (in.wg)	0.076	0.120	0.169	0.233	0.305	0.4	0.670	0.927	1.22
		NC	22	27	34	37	42	47	54	58	62
		Throw(ft)	33	43	48	57	62	79	95	114	127
<b>12"</b>	Neck Area	CFM	706	765	900	1059	1177	150	1824	2118	235
	sqft. 0.785	SP (in.wg)	0.076	0.120	0.169	0.233	0.305	0.4	0.670	0.927	1.22
		NC	22	27	34	37	42	47	54	58	62
		Throw(ft)	39	49	57	69	77	95	121	134	157
<b>14"</b>	Neck Area	CFM	824	1000	1188	1412	1618	206	2413	2825	323
	sqft. 1.069	SP (in.wg)	0.076	0.120	0.169	0.233	0.305	0.4	0.670	0.927	1.22
		NC	22	27	34	37	42	47	54	58	62
		Throw(ft)	44	56	69	77	88	108	134	157	170
<b>16"</b>	Neck Area	CFM	1059	1294	1559	1824	2118	264	3237	3649	417
	sqft. 1.396	SP (in.wg)	0.076	0.120	0.169	0.233	0.305	0.4	0.670	0.927	1.22
		NC	22	27	34	37	42	47	54	58	62
		Throw(ft)	52	62	77	90	105	126	154	170	197