

DRUM JET DIFFUSER (DJD)

PRODUCTS FEATURES

Drum Jet Diffusers are used in large indoor areas like airport lounges, factories, theaters, gymnasiums, museums, meeting rooms, etc. They are arranged on the side walls. They are designed for handling large air volumes and long throws.

In summer, the supply air is deflected upwards (cold air) and in winter, downwards (warm air) to mix with the existing air stream uniformly.

The adjustable blade in the drum body facilitates in rotating the drum based on our requirement.

Drum Jet Diffusers can also be supplied with opposed blades damper (OBD) to facilitate the precise air volume control.

CHARACTERISTICS

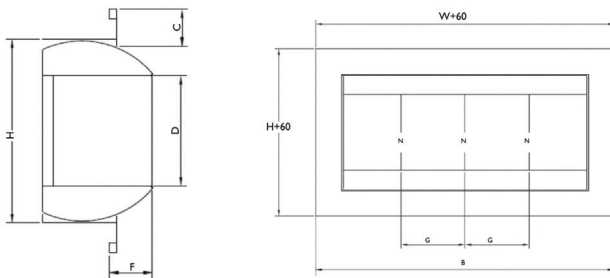
To be used for long distance hot /cold air supply. The air supply angle can be adjusted as per the requirement.

The air-guiding blades can make uniform airflow distribution in all directions.

The exterior frame and blades are made from aluminium. Various colors are available to suit customer's requirements.

There is a sealant in between the frame and drum to prevent the supply air from leaking and also to make the drum locked in any angle.

DIMENSION TABLE

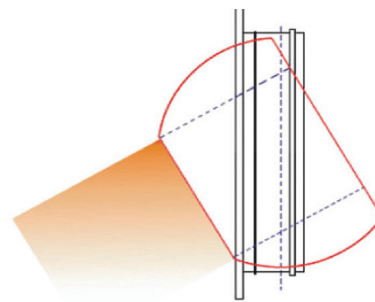


Size	W	H	G	D	F	C
250 X 150	250	150	75	90	40	30
300 X 150	300	150	75	90	40	30
475 X 150	475	150	75	90	40	30
625 X 150	625	150	75	90	40	30
642 X 170	612	170	80	90	40	30
500 X 250	500	250	125	150	60	50
650 X 250	650	250	125	150	60	50
750 X 250	750	250	125	150	60	50
900 X 250	900	250	125	150	60	50

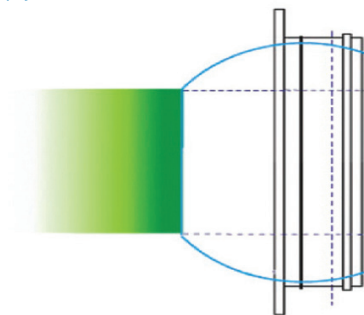


OPERATING CONDITIONS OF AIR SUPPLY

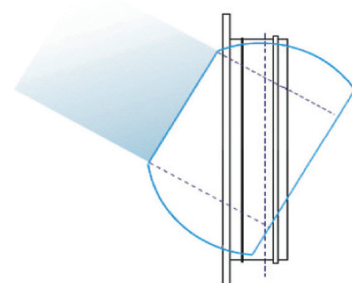
Summer Working Condition



Level Supply Air



winter Working Condition



TECHNICAL PARAMETER

Size	Air Volume (m³/h)	Terminal Air Velocity (m/s)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1	1.2	1.3	1.5	1.6	2	2.5
250 x 150	500	Throw (m)	32.7	16.2	10.8	8	6.4	5.3	4.5	3.9	3.1	2.5	-	-	2	-	-
	630		> 40	20.3	13.5	10.1	8	6.6	5.7	4.9	3.9	3.2	-	-	2.5	-	-
	800		> 40	26.1	17.3	13	10.3	8.6	7.3	6.4	5.1	4.2	-	-	3	-	-
	900		> 40	29.4	19.5	14.6	11.7	9.7	8.2	7.2	5.7	4.7	-	-	3.7	-	-
	1000		> 40	32.6	21.7	16.2	13	10.7	9.2	8	6.3	5.3	-	-	4.2	-	-
	1250		> 40	> 40	27.2	20	16.1	13.5	11.5	10.1	8	6.6	-	-	5.3	-	-
1600	> 40	> 40	34.8	26.1	20.4	17.3	14.8	12.9	10.3	8.6	-	-	6.8	-	-		
300 x 150	630	Throw (m)	38.4	19.1	12.6	9.47	7.7	6.25	5.33	4.6	3.6	3.04	-	-	2.4	-	-
	700		> 40	21	14	10.5	8.4	6.9	8.9	5.1	4.1	3.4	-	-	2.6	-	-
	800		> 40	24.3	16.1	12	9.4	8	6.8	5.9	4.7	3.9	-	-	3	-	-
	900		> 40	27.3	18.2	13.6	9.9	9	7.7	6.7	5.3	4.4	-	-	3.5	-	-
	1000		> 40	30.4	20.2	15.1	11.8	10	8.5	7.4	5.9	4.9	-	-	3.9	-	-
	1250		> 40	39	26	19.4	14.8	12.9	11	9.6	7.6	6.3	-	-	5	-	-
1600	> 40	> 40	33.3	24.9	19.4	16.5	14.1	12.3	9.8	8.2	-	-	6.5	-	-		
475 x 150	800	Throw (m)	33.1	16.4	10.9	8.1	6.4	5.3	4.5	3.9	3.1	2.6	-	-	2	-	-
	900		37.3	18.5	12.3	9.1	7.3	6	5.1	4.5	3.5	2.9	-	-	2.3	-	-
	1000		> 40	20.6	13.7	10.2	8.1	0.7	5.7	5	3.9	3.2	-	-	2.6	-	-
	1250		> 40	25.8	17.1	12.8	10.3	8.4	7.2	6.3	5	4.1	-	-	3.3	-	-
	1600		> 40	33.1	22	16.4	13.1	10.9	9.3	8.1	6.4	5.3	-	-	4.2	-	-
	2000		> 40	> 40	27.4	20.5	16.4	13.6	11.6	10.1	8	6.7	-	-	5.3	-	-
2500	> 40	> 40	34.4	25.7	20.6	17.1	14.6	12.8	10.2	8.4	-	-	6.7	-	-		
625 x 150	900	Throw (m)	28	14.8	9.8	7.3	5.8	4.8	4.1	3.5	2.8	2.1	-	-	1.7	-	-
	1000		33.3	16.5	10.9	8.1	6.5	5.4	4.6	4	3.1	2.6	-	-	2	-	-
	1250		> 40	20.7	13.7	10.2	8.1	6.7	5.8	5	4	3.3	-	-	2.6	-	-
	1600		> 40	26.6	17.6	13.2	10.3	8.7	7.4	6.5	5.1	4.2	-	-	3.3	-	-
	2000		> 40	33.3	22.1	16.5	12.9	10.9	9.3	8.1	6.5	5.4	-	-	4.2	-	-
	2500		> 40	> 40	27.7	20.7	16.2	13.7	11.7	10.2	8.1	6.7	-	-	5.3	-	-
3000	> 40	> 40	33.3	24.9	20	16.5	14.1	12.3	9.8	8.1	-	-	6.5	-	-		
500 X 250	1600	Throw (m)	> 40	21.5	14.3	10.6	8.4	7	6	5.2	4.1	-	3.4	2.6	-	1.9	1.5
	2000		> 40	26.9	17.9	13.3	10.6	8.8	7.5	6.6	5.2	-	4.3	3.4	-	2.5	1.9
	2500		> 40	33	22.4	16.7	13.3	11	9.5	8.2	6.5	-	5.4	4.3	-	3.1	2.5
	3000		> 40	40	16.9	20.1	15.9	13.3	11.4	9.9	7.9	-	6.5	5.2	-	3.8	3
	3500		> 40	> 40	31.5	23.6	18.7	15.6	13.4	11.7	9.3	-	7.7	6.1	-	4.1	3.6
	4000		> 40	> 40	35.9	26.9	21.4	17.8	16.2	13.3	10.6	-	8.8	7	-	6.2	4.1
660 X 250	2000	Throw (m)	38.2	19	12.6	9.4	7.5	6.2	5.2	4.6	3.6	-	3	2.3	-	1.72	1.3
	2500		> 40	23.9	15.8	11.8	9.3	7.8	6.7	5.8	4.6	-	3.8	3	-	2.2	1.7
	3000		> 40	28.7	19.1	14.2	11.3	9.4	8	7	5.6	-	4.6	3.6	-	2.7	2.1
	3500		> 40	33.5	22.3	16.7	13.2	11	9.4	8.2	6.5	-	5.4	4.3	-	3.1	2.5
	4000		> 40	38.4	25.5	19.1	15.1	12.6	10.8	9.4	7.5	-	6.2	3.9	-	3.6	2.8
	4500		> 40	> 40	28.7	21.5	17.1	14.2	12.2	10.6	8.4	-	7	5.6	-	4.1	3.2
5000	> 40	> 40	31.9	23.9	19	15.8	13.5	11.8	9.4	-	7.8	6.2	-	4.6	3.6		
750 X 250	2500	Throw (m)	> 40	24.3	16.1	12	9.5	7.9	6.7	5.9	4.6	-	3.8	3	-	2.2	1.7
	3000		> 40	29.2	19.4	14.5	11.5	9.5	8.1	7.1	5.6	-	4.6	3.7	-	2.7	2.1
	3500		> 40	34	22.6	16.9	13.5	11.2	9.6	8.3	6.6	-	5.5	4.3	-	3.2	2.5
	4000		> 40	38.7	25.7	19.2	15.3	12.7	10.9	9.5	7.5	-	6.2	3.9	-	3.6	2.8
	4500		> 40	> 40	29.2	21.8	17.4	14.5	12.4	10.8	8.6	-	7.1	6.6	-	4.1	3.3
	5000		> 40	> 40	32.9	24.3	19.2	16.1	13.8	12	9.5	-	7.9	6.3	-	4.6	3.7
6000	> 40	> 40	> 40	29.2	23.2	19.3	16.5	14.4	11.5	-	9.5	7.6	-	5.6	4.4		
900 X 250	3000	Throw (m)	> 40	24.8	16.5	12.3	9.8	8.1	6.9	6	4.8	-	3.9	3.1	-	2.2	1.7
	3500		> 40	29	19.2	14.4	11.5	9.5	8.1	7	5.6	-	4.6	3.6	-	2.7	2.1
	4000		> 40	37.1	24.6	19.4	14.7	12.2	10.4	9.1	7.2	-	6	4.7	-	3.5	2.75
	5000		> 40	> 40	27.6	20.6	16.5	13.7	11.7	10.2	8.1	-	6.7	5.3	-	3.9	3.1
	5500		> 40	> 40	30.4	22.7	18.1	15.1	12.9	11.2	8.9	-	7.4	5.9	-	4.3	3.4
	6000		> 40	> 40	33	24.8	19.8	16.5	14.1	12.3	9.8	-	8.1	6.4	-	4.8	3.7
7000	> 40	> 40	38.6	28.8	23.8	19.1	16.4	14.3	11.4	-	9.4	7.5	-	5.6	4.4		

TECHNICAL PARAMETER

Specification	250 x 150		300 X 150		475 X 150		625 X 150		500 X 250		650 X 250		750 X 250		900 X 250	
	Pressure Loss (Pa)	Noise dB (A)	Pressure Loss (Pa)	Noise dB (A)	Pressure Loss (Pa)	Noise dB (A)	Pressure Loss (Pa)	Noise dB (A)	Pressure Loss (Pa)	Noise dB (A)	Pressure Loss (Pa)	Noise dB (A)	Pressure Loss (Pa)	Noise dB (A)	Pressure Loss (Pa)	Noise dB (A)
500	25.1	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-
630	39.1	34	30.8	33.5	-	-	-	-	-	-	-	-	-	-	-	-
800	64.3	40	67	38	20	34	-	-	-	-	-	-	-	-	-	-
900	81.3	42	85	40	25	35	<10	26	-	-	-	-	-	-	-	-
1000	100	44	102	42	31.8	36	<20	30.3	-	-	-	-	-	-	-	-
1250	156	47.5	142	46.5	70	40.5	30	37	-	-	-	-	-	-	-	-
1600	256	51	180	50	108	45	61	41	26	37.5	-	-	-	-	-	-
2000	-	-	-	-	142	49	95	45	50	41	20	38	-	-	-	-
2500	-	-	-	-	180	53	130	49	74	44.5	38	41	20	29	<10	<32
3000	-	-	-	-	-	-	160	52	100	47.5	66	43	40	42.5	25	40
3500	-	-	-	-	-	-	-	-	126	49.5	93	48	70	46.5	40	42.5
4000	-	-	-	-	-	-	-	-	142	53	123	52	102	50	68	47
4500	-	-	-	-	-	-	-	-	-	-	138	54	118	52	81	49
5000	-	-	-	-	-	-	-	-	-	-	152	55.5	133	54	96	51
6000	-	-	-	-	-	-	-	-	-	-	-	-	162	57.5	124	54.2
7000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	154	60