

# DMSE MODEL

## GALVANNEAL STAMPED FRAME 2 CONE DIFFUSER FOR TEE CEILING



- Its integral round neck and its tiered core allows it to an optimus 360° diffusion pattern, similar to a round diffuser.
- The DMSE diffusers discharge the air in a horizontal radial pattern, ideal for systems of variable air volume, as the air volumes are going down mix and equalization of the air temperature, induced by this diffusers, allows it to continue to provide a constant and stable distribution.
- The adjustments of the control devices can be made from diffuser's face without removing the core from itself.
- For be mounted over "T" profiles of a false ceiling and over the exterior surface of a drywall ceiling or similar.

**CONSTRUCTION:** Galvanneal steel structure. Available with neck sizes: 6"-16" diameter. Diffuser size 24"x24".

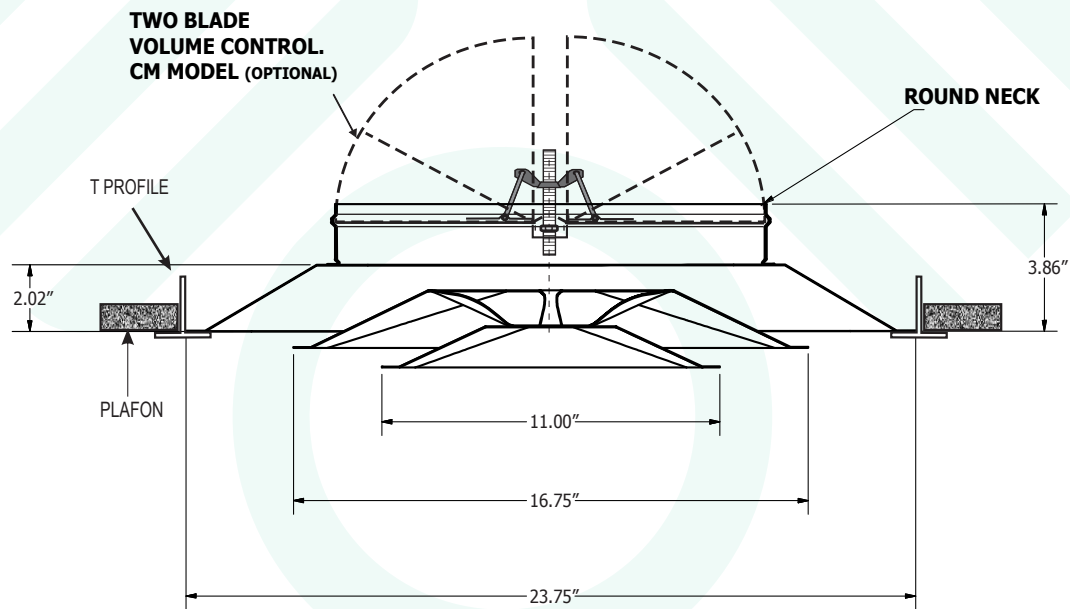
**FINISH:** Standard white Anodic acrylic paint. Other colors available.

**PERFORMANCE :** The horizontal radial discharge of the DMSE diffusers assure a trustworthy use with cooling temperature differentials up to 30°F with a predictable low speed airflow in the occupied area (35 feet/min).

Diffuser size: 24" x 24"  
Neck sizes: 6", 8", 10", 12", 14", 16"

## Dimensional Data

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## HIGH PERFORMANCE SQUARE DIFUSER - HORIZONTAL DISCHARGE.

### TABLE 1 PERFORMANCE DATA

DIFFUSER SIZE	NECK DIAMETER	NECK VELOCITY (Feet/Min.)									
		400	500	600	700	800	900	1000	1200	1400	
		VEL. PRESURE (INCHES H2O)	0.010	0.016	0.022	0.031	0.040	0.05	0.062	0.09	0.122
<b>24" X 24"</b>	<b>6"</b>	CFM	79	98	118	137	157	196	236	275	314
		TP	0.015	0.025	0.035	0.048	0.063	0.099	0.142	0.193	0.252
		THROW	1-2-5	1-2-7	2-4-6	2-6-7	3-5-9	3-6-10	4-7-11	4-7-13	5-8-15
		NC	-	-	-	10	15	23	25	32	36
	<b>8"</b>	CFM	140	175	209	244	279	349	419	489	559
		TP	0.016	0.025	0.036	0.049	0.064	0.101	0.145	0.197	0.257
		THROW	2-3-5	2-4-7	3-5-8	3-7-10	4-7-14	4-8-15	5-9-16	6-10-17	7-11-19
		NC	-	-	11	15	19	26	31	36	40
	<b>10"</b>	CFM	218	273	327	382	436	545	654	764	873
		TP	0.017	0.026	0.037	0.051	0.066	0.103	0.149	0.202	0.264
		THROW	2-4-8	2-5-9	3-6-11	4-7-14	5-8-17	6-9-19	7-11-20	8-13-24	9-15-26
		NC	-	-	14	18	22	29	34	39	43
	<b>12"</b>	CFM	314	393	471	550	628	785	942	1100	1257
		TP	0.017	0.027	0.038	0.052	0.068	0.106	0.153	0.208	0.272
		THROW	4-7-12	5-8-14	6-9-17	7-11-20	9-13-24	11-16-26	13-19-28	14-21-30	16-24-32
		NC	-	11	16	21	24	31	36	41	45
	<b>14"</b>	CFM	428	535	641	748	855	1069	1283	1497	1710
		TP	0.018	0.028	0.04	0.054	0.07	0.11	0.159	0.216	0.285
		THROW	4-6-14	5-8-16	7-10-19	9-13-23	10-15-25	12-18-27	14-20-29	15-22-31	17-25-33
		NC	-	13	18	22	26	33	38	43	47
	<b>15"</b>	CFM	491	614	736	859	982	1227	1473	1718	1963
		TP	0.018	0.028	0.04	0.055	0.072	0.112	0.162	0.220	0.287
		THROW	5-7-14	5-8-17	7-11-20	9-14-24	10-16-26	12-18-28	14-20-30	15-23-32	17-26-33
		NC	-	13	19	23	27	34	39	44	48
<b>16"</b>	CFM	550	689	827	966	1105	1381	1659	1935	2212	
	TP	0.019	0.029	0.042	0.057	0.074	0.12	0.19	0.24	0.30	
	THROW	5-8-15	6-9-18	8-11-21	10-14-25	11-16-27	13-19-29	15-22-32	16-24-33	18-26-34	
	NC	-	15	20	24	28	35	40	44	49	

**NOTES:**

- 1 - CFM IS CUBIC FEET PER MINUTES.
- 2 - TP IS TOTAL PRESSURE IN INCHES OF WATER COLUMN.
- 3 - THROW IS THE AIRSTREAM REACH IN FEET WHEN IT MEET A TERMINAL VELOCITY OF 150, 100 OR 50 FEET PER MINUTE RESPECTIVELY, THROW VALUES ARE FOR ISOTHERMAL CONDITIONS.
- 4 - NC VALUES REPRESENTS THE NOISE CRITERIA CURVE WHICH WILL NOT BE EXCEEDED BY THE SOUND PRESSURE IN ANY OF THE OCTAVE BANDS, 2nd THROUGH 7th, WITH A ROOM ABSORPTION OF 10 dB, re 10<sup>-12</sup> WATTS.
- 5 - IF THE DIFFUSER IS MOUNTED ON AN EXPOSED DUCT, THE THROW VALUES ARE 70% OF THOSE LISTED IN THE TABLE.
- 6 - ACTUAL PERFORMANCE, WITH FLEXIBLE DUCT INLET, MAY VARY IN THE FIELD.
- 7 - TO OBTAIN STATIC PRESSURE, SUBTRACT THE VELOCITY PRESSURE FROM THE TOTAL PRESSURE.