

PMI MODEL

GALVANNEAL PERFORATED SUPPLY DIFFUSER FOR TEE CEILING

- Perforated ceiling diffusers are designed For HVAC application. Excellent performance in volume systems of variable air
- With adjustable curved blades that provides an air injection with a horizontal or vertical diffusion pattern of 1, 2, 3 and 4 ways (PDM); or with fixed baffles blades (stamped) that provide an air injection with a horizontal diffusion pattern of 4-ways (PMI).
- Perforated faces of steel or aluminum sheet, of Easy removal, and available in two styles: Level or staggered (see installation drawing, adjustment and cleaning.)
- Steel sheet plenum boxes with round neck or with optional square neck. To mount on false ceiling with T profile.



CONSTRUCTION: Perforated steel or aluminum sheet ,with adjustable curved blades made of extruded aluminum (PDM). Plenum box , made of steel sheet.

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

PERFORMANCE: They work efficiently with differential temperature from 20 ° F to 25 ° F under cooling. The diffusion of air with a high degree of induction, gives a fast equality of temperature, well above the occupied area which allows predicting low air movement (35 Feet / Min.)

PDMCM, PMICM REGISTER: Optionally we provide a volume control CM model.

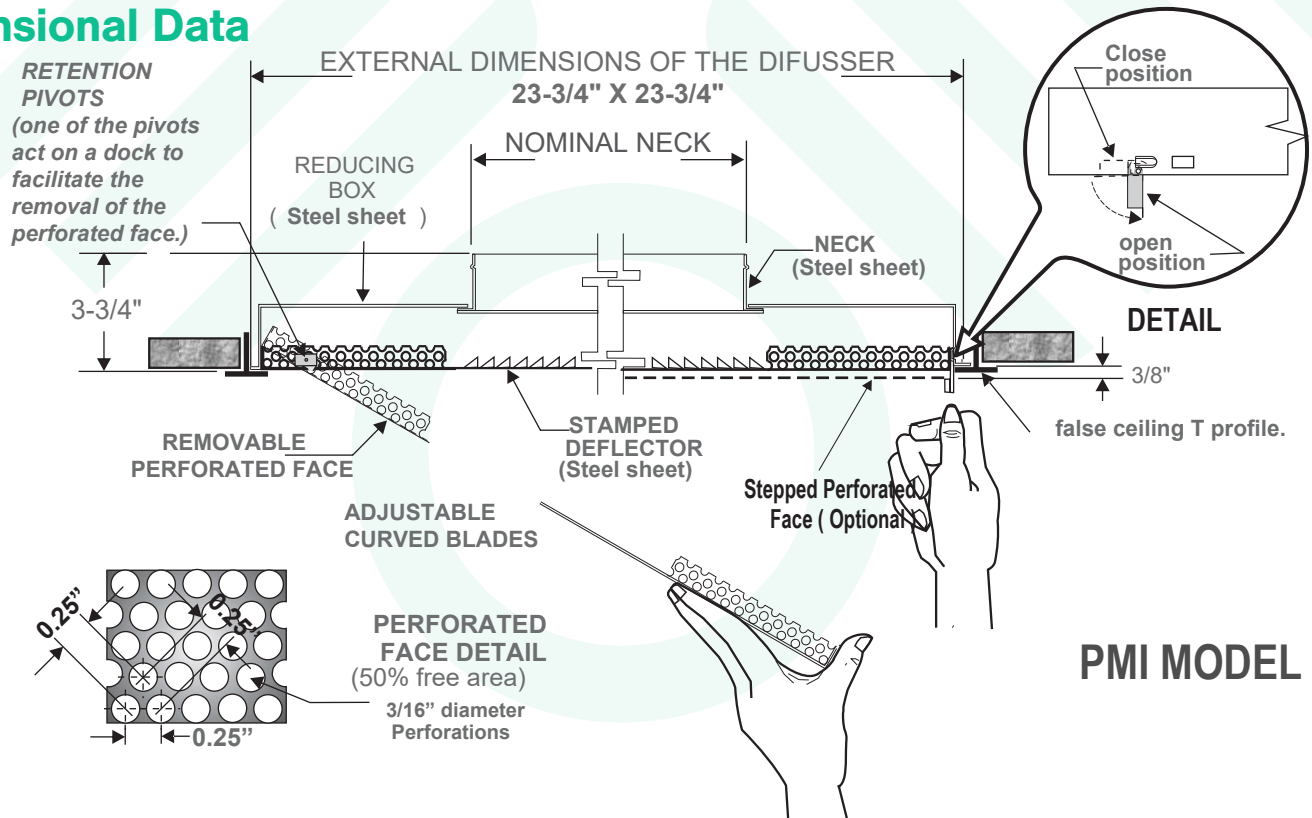


These controls allow continuous adjustment throughout the entire operating range, from fully open until fully closed.

Foam gasket inside the neck allows a tight seal.

CM MODEL

Dimensional Data



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SUPPLY PERFORATED DIFFUSERS, FIXED BLADES

TABLE 2 PERFORMANCE DATA, Round Neck

NECK SIZE (Inches)	Neck Vel.(VN)		300	400	500	600	700	800	900	1000
	(PV)Pulgs.H ₂ O	(VP)Inches H ₂ O	0.006	0.010	0.016	0.023	0.031	0.040	0.052	0.063
6" AN = 0.20	CFM		60	80	100	120	140	160	180	200
	TP(Inches H ₂ O)		0.012	0.022	0.034	0.048	0.064	0.085	0.107	0.132
	Noise Criteria		—	—	—	16	21	25	30	33
	Throw (Feet)	4 Ways	1 - 2	1 - 3	1 - 4	1 - 4	2 - 4	2 - 5	3 - 5	3 - 6
8" AN = 0.35	CFM		105	140	175	210	245	280	315	350
	TP(Inches H ₂ O)		0.016	0.029	0.045	0.065	0.086	0.112	0.142	0.172
	Noise Criteria		—	—	16	22	27	31	34	38
	Throw (Feet)	4 Ways	1 - 3	1 - 4	2 - 5	3 - 6	3 - 7	4 - 9	4 - 10	5 - 10
10" AN = 0.54	CFM		162	216	270	324	378	432	486	540
	TP(Inches H ₂ O)		0.020	0.035	0.055	0.077	0.106	0.138	0.177	0.216
	Noise Criteria		—	14	21	27	32	36	38	42
	Throw (Feet)	4 Ways	2 - 5	4 - 6	4 - 6	4 - 7	4 - 9	5 - 11	6 - 12	6 - 14
12" AN = 0.79	CFM		237	316	395	474	553	632	711	790
	TP(Inches H ₂ O)		0.026	0.043	0.065	0.094	0.129	0.167	0.213	0.260
	Noise Criteria		—	18	25	30	35	40	42	46
	Throw (Feet)	4 Ways	4 - 5	4 - 10	5 - 10	6 - 11	7 - 12	8 - 12	8 - 13	9 - 14
14" AN = 1.07	CFM		321	428	535	642	749	856	963	1070
	TP(Inches H ₂ O)		0.030	0.050	0.075	0.110	0.149	0.194	0.252	0.310
	Noise Criteria		12	21	28	34	38	43	48	50
	Throw (Feet)	4 Ways	6 - 8	7 - 10	8 - 13	8 - 14	9 - 15	10 - 15	11 - 17	12 - 18
16" AN = 1.40	CFM		420	560	700	840	980	1120	1260	1400
	TP(Inches H ₂ O)		0.033	0.059	0.093	0.134	0.181	0.236	0.303	0.370
	Noise Criteria		14	23	31	36	41	45	48	53
	Throw (Feet)	4 Ways	7 - 9	8 - 11	9 - 13	9 - 16	10 - 19	11 - 20	12 - 21	13 - 22
18" AN = 1.77	CFM		530	708	885	1062	1239	1416	1593	1770
	TP(Inches H ₂ O)		0.038	0.065	0.103	0.150	0.202	0.262	0.339	0.416
	Noise Criteria		20	26	33	39	44	47	50	53
	Throw (Feet)	4 Ways	8 - 10	9 - 12	10 - 14	11 - 18	12 - 21	12 - 23	13 - 25	14 - 28

NOTES:

- A- MINIMUM THROW VALUES IN FEET ARE FOR 100 FPM TERMINAL VELOCITY, MAXIMUM THROW VALUES ARE FOR 50 FPM TERMINAL VELOCITY.
- B- SEE FACE / NECK SIZE COMBINATIONS TABLE. WHEN ORDERING ALWAYS SPECIFY BOTH NOMINAL FACE AND NECK SIZE (TABLE 3).
- NV IS NECK VELOCITY IN FT/MIN
- NA IS NECK AREA IN SQUARE FEET.

SUPPLY PERFORATED FACE DIFFUSERS.

TABLA 3 NOMINAL FACE AND NECK SIZES

FACE SIZE INCHES	DIFFUSER NECK OR NOMINAL DUCT SIZE						
	ROUND NECK DIAMETER - INCHES						
12 X 12	6	—	—	—	—	—	—
24 X 12	6	—	—	—	—	—	—
16 X 16	6	8	10	—	—	—	—
20 X 20	6	8	10	12	14	—	—
24 X 24	6	8	10	12	14	16	18
48 X 24	6	8	10	12	14	16	18
	SQUARE OR RECTANGULAR NECK SIZE - INCHES						
12 X 12	6 X 6	—	—	—	—	—	—
24 X 12	6 X 6	8 X 6	10 X 6	12 X 6	14 X 6	16 X 6	18 X 6
16 X 16	6 X 6	8 X 8	10 X 10	—	—	—	—
20 X 20	6 X 6	8 X 8	10 X 10	12 X 12	14 X 14	—	—
24 X 24	6 X 6	8 X 8	10 X 10	12 X 12	14 X 14	16 X 16	18 X 18
48 X 24	6 X 6	8 X 8	10 X 10	12 X 12	14 X 14	16 X 16	18 X 18

NOTES

Perforated diffusers tabulated in Tables 1, 2 and 3 are specified in measurements taken under the conditions described in the following notes .

Sound level (NC) values are affected in a room absorption 10 decibels (10 dB) for sound level power (Lw) re: 1pw (10-12 watts.)

Velocity pressure (Pv) and total pressure (Pt) are measured in inches of water columns. Static pressure (PE) can be limited by subtracting the velocity pressure value (PV) of the corresponding total pressure.

Negative static pressures are shown in the Performance data for all Perforated Returns. (Tables 4, 5 and 6).

The throw values were tabulated with the diffusers mounted on a false ceiling to a height of 10 ft. from the floor and supplying air at 20° F temperature less than the fourth.

The tabulated throw is the distance between the perforated face injection diffuser (PMI and PDM) where the velocity of air stream has been reduced to one terminal velocity (VT) selected.