

DRPF-LN MODEL

STEEL ROUND DIFFUSER WITH TWO DISCHARGE PATTERN FOR LOW VOLUME



- Plate core, for maximum performance, at 360° diffusion pattern.
- 8", 10", 12" & 14" available diameters. Fixed core.
- Removable plate core, removed by turning clockwise
- Accessory available: CM model mounted on neck diffuser. Actuated by 1/4" allen wrench.

CONSTRUCTION

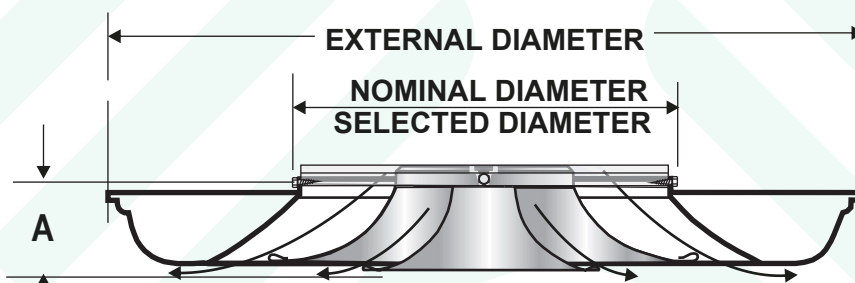
Steel construction

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

PERFORMANCE: This diffusers assure a trustworthy cooling differentials temperature up to 20°F with a predictable low velocity airflow in the occupied area of (35 feet/min)

Dimensional Data

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NOMINAL DIAMETER SELECTED DIAMETER = DUCT DIAMETER	EXTERNAL DIAMETER	DIMENSION "A"
6"	11-1/8"	2"
8"	14-5/8"	2"
10"	18-1/4"	2"
12"	22- 0"	2-3/4"
14"	26- 0"	3-1/8"

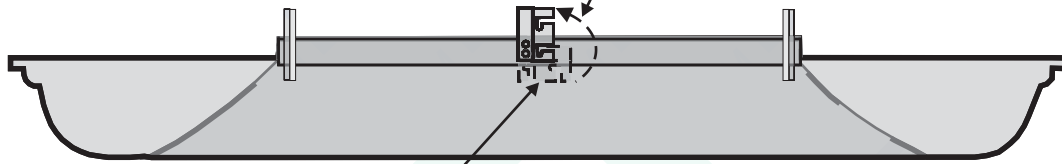
INSTRUCTIONS FOR CORE MOUNTING.

IN VERTICAL POSITION MAKE THE HOLE OF CLASP MATCHED WITH THE NECK.
(DO THIS WITH THE REMAINING CLASP)

②

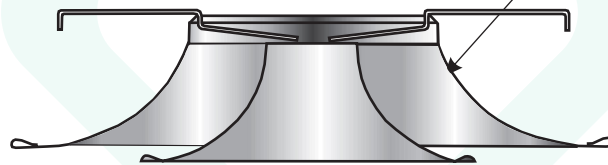
①

ROTATE THE 4 CLASP TO VERTICAL POSITION



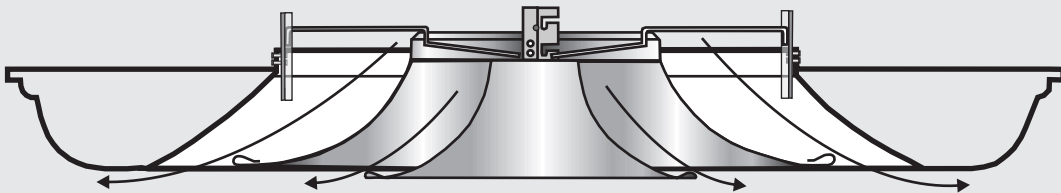
SHIPPING POSITION OF THE
RETAINERS (4) OF THE CORE

CORE ASSEMBLY

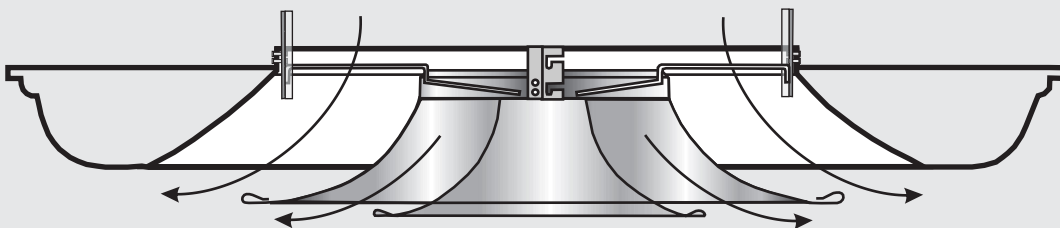


③ ONCE THE 4 CLASPS ARE RIVETED, INSERT THE CORE ASSEMBLY IN ONE OF THE TWO SLOTS OF EACH CLASP

Position 1- For a Higher Induction Horizontal Air Discharge



Position 2- For Maximum Air Flow Capacity & Horizontal Discharge



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TABLE 1 PERFORMANCE DATA

NECK DIAMETER		NECK VELOCITY (Feet/Min.)								
		400	500	600	700	800	900	1000	1200	1400
8"	PT/TP Pos. 1	0.046	0.073	0.107	0.145	0.188	0.240	0.296	0.426	0.577
	PT/TP Pos. 2	0.029	0.045	0.065	0.089	0.116	0.146	0.181	0.260	0.354
	CFM	140	175	210	245	280	315	350	420	490
8"	THROW - Pos. 1	3-4-8	3-5-9	4-6-9	4-7-10	5-8-11	6-8-12	6-9-12	8-9-13	8-10-14
	THROW - Pos. 2	2-3-7	3-4-8	3-5-9	4-6-10	4-7-11	5-7-11	5-8-12	7-9-13	8-10-14
	NC	-	14 / -	19 / 12	24 / 17	28 / 21	31 / 25	34 / 28	39 / 34	44 / 39
10"	CFM	218	273	327	382	436	491	545	654	763
	THROW - Pos. 1	3-5-9	4-6-11	5-7-12	5-8-13	6-9-14	7-10-14	8-11-15	9-12-17	10-13-18
	THROW - Pos. 2	3-4-8	3-5-10	4-6-12	5-7-12	5-8-13	6-9-14	7-10-15	8-12-16	10-12-18
10"	NC	-	15 / -	20 / 14	25 / 19	29 / 23	32 / 27	35 / 30	41 / 36	45 / 41
	CFM	315	390	470	550	630	705	785	940	1100
	THROW - Pos. 1	4-6-11	5-7-13	6-8-14	7-10-15	8-11-16	8-12-17	8-13-17	11-14-20	12-15-22
12"	THROW - Pos. 2	3-5-10	4-6-12	5-7-14	6-9-15	7-10-16	7-11-17	8-12-18	10-14-20	11-15-21
	NC	-	16 / -	21 / 16	26 / 20	30 / 25	33 / 29	36 / 32	42 / 38	46 / 43
	CFM	425	530	635	745	850	955	1060	1270	1490
14"	THROW - Pos. 1	4-7-13	5-8-15	7-10-16	8-11-18	9-13-19	10-14-20	11-15-21	13-16-23	14-18-25
	THROW - Pos. 2	4-6-11	5-7-14	6-8-16	7-10-17	8-11-19	8-13-20	9-14-21	11-16-23	13-17-25
	NC	11 / -	17 / 11	22 / 17	27 / 22	31 / 26	34 / 30	37 / 33	42 / 39	47 / 44

- NOTES: 1.- CFM IS CUBIC FEET PER MINUTE.
 2.- TP IS TOTAL PRESSURE LOSS INCHES WATER COLUMN
 3.- THROW IS THE AIR STEAM REACH IN FEET AT A TERMINAL VELOCITY OF 150, 100 & 50 FEET PER MINUTE, RESPECTIVELY.
 4.- NC IS NOISE CRITERIA BASED ON 10dB ROOM ABSORPTION (Re:10⁻¹²WATTS) IN ANY OF THE OCTAVE BAND, 2nd THROUGH 7th.
 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.