

DP14125-ND MODEL

ALUMINUM LINEAR BAR DIFFUSER BLADE CENTER SEPARATION FROM 1/4" TO 1/2", 15° DEFLECTION WITH REMOVABLE CORE

- Removable core linear diffuser that provides easy access to the duct, for service or maintenance, without removing the grille frame, thus avoiding paint damage.
- Installation for lateral walls, false ceiling or shelf as a lineal diffuser.
- Wall mounted, its blades deflect the air 15° upwards to reduce the quality effect of the primary cold air flow, and in this position, they give a Non-vision appearance.
- Mounted in a shell, this diffuser provides a vertical air pattern, with a deflection of 15°
- Ideal to overcome the annoying currents of cold air during the winter and to compensate for the radiant effect of the glass surfaces during the summer.
- Can be used for both: air supply or return allowing installations of great aesthetic value. (free nominal area= 43.8%).

66%
Free area

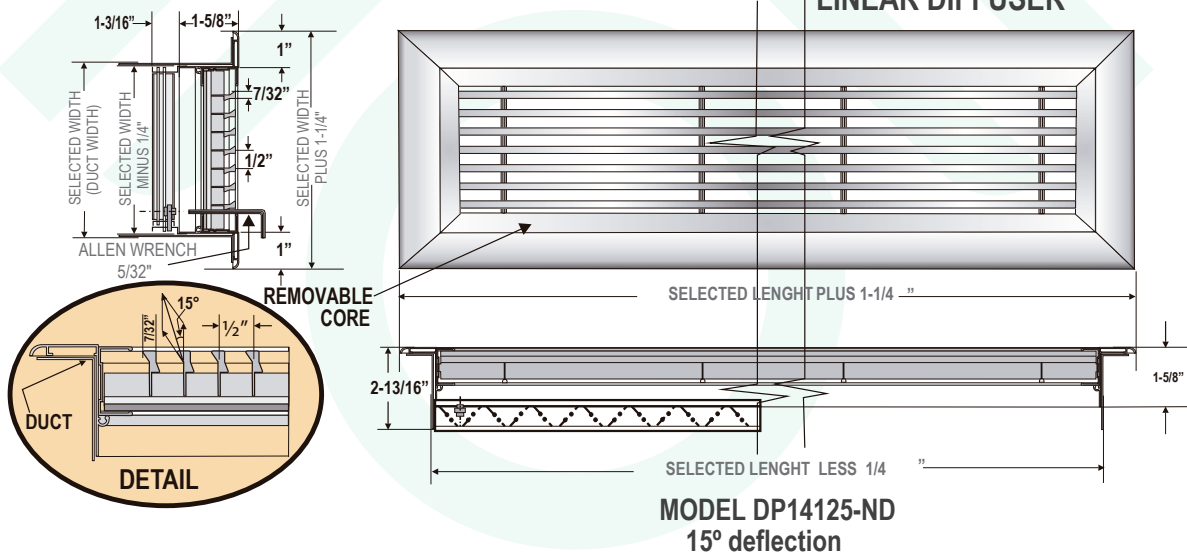


CONSTRUCTION: Extruded aluminum.

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

PERFORMANCE: Operating efficiency, ensures reliable use with temperature differentials up to 25 ° F in heating and 20 ° F in cooling with a predictable low air movement in the area (35 feet / min).

Dimensional Data



LINEAR BAR DIFFUSER & REGISTERS

TABLE PERFORMANCE DATA

NOMINAL WIDTH INCHES OUTLET AREA/ FT	OUTLET VELOCITY (V _k)		400	500	600	700	800	900	1000	1200
	TOTAL PRESSURE (TP)		0.012	0.019	0.026	0.036	0.044	0.053	0.070	0.104
2" AK / FT = 0.050	CFM / Feet		20	25	30	35	40	45	50	60
	THROW - FT	SILL	3 - 6	5 - 8	7 - 11	9 - 12	9 - 13	10 - 14	11 - 16	13 - 19
		SIDE WALL	5 - 10	7 - 12	8 - 14	9 - 15	10 - 17	12 - 18	14 - 20	15 - 22
	NC		—	10	15	18	22	25	29	34
3" AK / FT = 0.090	CFM / Feet		36	45	54	63	72	81	90	108
	THROW - FT	SILL	5 - 8	7 - 10	9 - 12	10 - 14	12 - 16	13 - 18	14 - 19	15 - 22
		SIDE WALL	7 - 13	8 - 16	9 - 18	11 - 20	13 - 22	15 - 24	17 - 26	19 - 28
	NC		—	14	16	20	24	27	32	35
4" AK / FT = 0.130	CFM / Feet		52	65	78	91	104	117	130	156
	THROW - FT	SILL	7 - 9	8 - 11	10 - 14	12 - 17	13 - 18	14 - 20	15 - 22	18 - 25
		SIDE WALL	8 - 15	10 - 19	12 - 22	14 - 26	16 - 28	14 - 30	18 - 32	22 - 34
	NC		—	16	19	24	27	30	33	38
5" AK / FT = 0.170	CFM / Feet		68	85	102	119	136	153	170	204
	THROW - FT	SILL	7 - 10	8 - 12	11 - 15	13 - 18	14 - 19	15 - 21	17 - 23	19 - 26
		SIDE WALL	9 - 17	12 - 24	14 - 26	16 - 28	18 - 30	20 - 34	23 - 36	25 - 38
	NC		—	17	19	24	28	32	35	40
6" AK / FT = 0.210	CFM / Feet		84	105	126	147	168	189	210	252
	THROW - FT	SILL	7 - 11	8 - 12	10 - 16	13 - 17	14 - 20	15 - 22	16 - 24	19 - 27
		SIDE WALL	10 - 20	13 - 24	15 - 28	18 - 31	20 - 33	22 - 37	24 - 39	28 - 42
	NC		—	13	20	26	29	33	36	41
8" AK / FT = 0.250	CFM / Feet		100	125	150	175	200	225	250	300
	THROW - FT	SILL	8 - 12	10 - 14	12 - 17	13 - 19	14 - 20	15 - 22	17 - 25	18 - 28
		SIDE WALL	12 - 22	14 - 26	17 - 30	20 - 33	22 - 35	24 - 39	26 - 42	30 - 44
	NC		—	13	20	27	30	34	37	42
10" AK / FT = 0.300	CFM / Feet		120	150	180	210	240	270	300	—
	THROW - FT	SILL	9 - 14	10 - 15	13 - 19	15 - 22	17 - 24	18 - 26	20 - 30	—
		SIDE WALL	14 - 23	16 - 28	18 - 32	21 - 34	23 - 36	26 - 42	28 - 44	—
	NC		—	16	20	28	31	35	38	—
12" AK / FT = 0.350	CFM / Feet		140	175	210	245	280	315	—	—
	THROW - FT	SILL	10 - 16	12 - 18	14 - 21	17 - 24	23 - 26	21 - 30	—	—
		SIDE WALL	16 - 25	18 - 30	19 - 34	22 - 36	24 - 37	27 - 44	—	—
	NC		16	18	22	29	32	36	—	—

NOTES:

- 1- TOTAL PRESSURE IS IN INCHES H₂O.
- 2- THROW VALUES ARE GIVEN FOR TERMINAL VELOCITIES OF 100 AND 50 FPM AND ARE BASED ON AN ACTIVE SECTION 4 FEET LONG., FOR OTHER LENGTHS REFER TO ENGINEERING DATA.
- 3- WHEN THE PERIMETRAL DIFFUSER IS USED AS A RETURN INTAKE, THE NC VALUES HAS AN AVERAGE INCREMENT OF 2 NC AND THE LISTED TOTAL PRESSURE VALUES INCREASE IN 20%.