

DP1412 MODEL

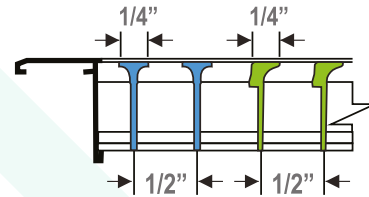
EXTRUDED ALUMINUM LINEAR BAR
DIFFUSER BLADE CENTER SEPARATION
FROM 1/4" TO 1/2", 0° DEFLECTION

DEFLECTION TO 0°:
DP14120 FRAME
DP14120-10 1" FRAME
DP14120-12 1/2" FRAME
DP14120-15 1.5" FRAME

DEFLECTION TO 15°:
DP14125 FRAME
DP14125-10 1" FRAME
DP14125-12 1/2" FRAME
DP14125-15 1.5" FRAME

- 50% free nominal area
- Installation for lateral walls, false ceiling or shelf as a lineal diffuser.
- This diffuser operates with a low noise level and produce a long and thin air distribution pattern of optimal application where there are large areas of exposed glass.
- Ideal to overcome cold air currents during winter and to compensate for the radiant effect of glass surfaces during summer
- These grilles and diffusers can be used for both: supply and return, allowing installations of great aesthetic value.

50%
Free area



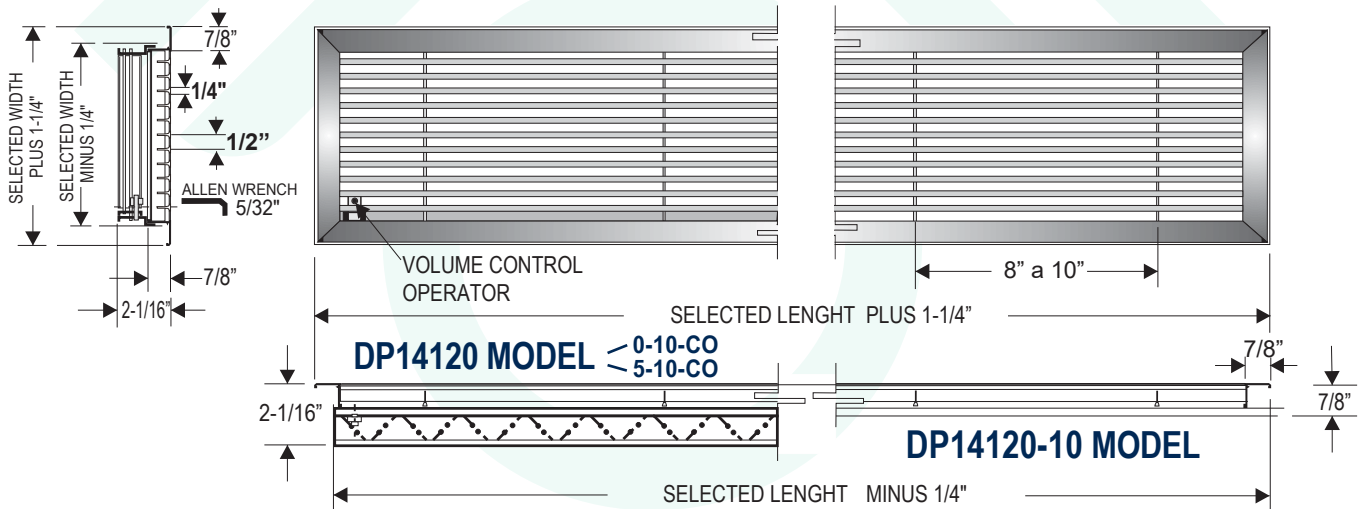
Deflection:
0° DP14120
15° DP14125

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 OULET AREA/ FT	OUTLET VELOCITY (V _K)		400	500	600	700	800	900	1000	1200
	TOTAL PRESSURE (TP)		0.014	0.020	0.028	0.039	0.052	0.066	0.081	0.113
2" AK / FT ² = 0.083	CFM / Feet		33	41	49	58	66	74	83	99
	THROW - FT	SILL	4 - 6	5 - 7	10 - 12	12 - 15	13 - 17	15 - 19	16 - 21	18 - 22
		SIDE WALL	10 - 17	16 - 21	17 - 23	19 - 25	20 - 27	22 - 30	24 - 33	25 - 36
	NC		—	—	16	20	24	28	32	36
3" AK / FT ² = 0.124	CFM / Feet		49	62	74	86	99	111	124	148
	THROW - FT	SILL	6 - 8	8 - 10	12 - 14	13 - 16	15 - 18	17 - 20	20 - 22	22 - 26
		SIDE WALL	12 - 24	14 - 26	19 - 28	21 - 30	23 - 32	24 - 34	26 - 36	26 - 37
	NC		—	—	12	16	20	23	26	32
4" AK / FT ² = 0.165	CFM / Feet		66	82	99	115	132	148	165	198
	THROW - FT	SILL	7 - 10	9 - 13	10 - 16	12 - 17	14 - 18	19 - 20	21 - 22	23 - 24
		SIDE WALL	12 - 18	15 - 23	18 - 28	20 - 31	22 - 33	24 - 34	26 - 37	27 - 38
	NC		—	—	14	18	22	25	28	34
5" AK / FT ² = 0.206	CFM / Feet		82	103	123	144	165	185	206	247
	THROW - FT	SILL	7 - 11	8 - 14	12 - 16	14 - 18	16 - 20	18 - 21	20 - 22	23 - 25
		SIDE WALL	14 - 19	18 - 24	20 - 28	22 - 30	23 - 33	24 - 34	25 - 36	28 - 40
	NC		—	—	14	18	22	26	29	35
6" AK / FT ² = 0.247	CFM / Feet		98	123	148	173	197	222	247	296
	THROW - FT	SILL	8 - 12	9 - 14	12 - 16	15 - 18	17 - 20	19 - 23	22 - 26	24 - 27
		SIDE WALL	17 - 24	19 - 26	20 - 28	22 - 31	24 - 34	25 - 35	26 - 37	29 - 42
	NC		—	—	16	20	24	28	32	36
8" AK / FT ² = 0.333	CFM / Feet		133	166	200	233	266	300	333	400
	THROW - FT	SILL	9 - 13	12 - 15	14 - 18	16 - 20	20 - 22	22 - 24	23 - 27	26 - 30
		SIDE WALL	10 - 14	13 - 18	16 - 22	17 - 23	18 - 24	19 - 26	21 - 28	22 - 30
	NC		—	16	20	24	28	32	36	40
10" AK / FT ² = 0.413	CFM / Feet		165	206	247	289	330	371	413	—
	THROW - FT	SILL	10 - 14	13 - 16	16 - 20	18 - 22	22 - 25	23 - 26	24 - 28	—
		SIDE WALL	12 - 17	14 - 20	18 - 23	19 - 24	20 - 26	21 - 28	22 - 30	—
	NC		—	18	22	26	30	34	38	—
12" AK / FT ² = 0.496	CFM / Feet		198	248	297	347	396	446	—	—
	THROW - FT	SILL	11 - 15	13 - 17	17 - 22	20 - 24	23 - 26	25 - 28	—	—
		SIDE WALL	14 - 19	15 - 21	19 - 25	23 - 28	22 - 32	24 - 34	—	—
	NC		18	20	24	28	32	36	—	—

NOTES:

- 1- TOTAL PRESSURE IS IN INCHES H₂O
- 2- THROW VALUES ARE GIVEN FOR TERMINAL VELOCITIES OF 100 & 50 FPM AND ARE BASED ON AN ACTIVE SECTION 4 FEET LONG., FOR OTHER LENGHTS 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 IN 20%