

DRG30AL MODEL

ALUMINUM ROUND DIFFUSER 30° DISCHARGE FIXED PATTERN



- Core plates , for maximum performance, which discharge the air at an angle of 30° to the surface mounting and a 360° diffusion pattern.
- 8", 10", 12" & 14" diameter available. Fixed core.
- Accessory available: CM model mounted on neck diffuser. Actuated by 1/4" allen wrench.

CONSTRUCTION

Aluminium construction

FINISH:

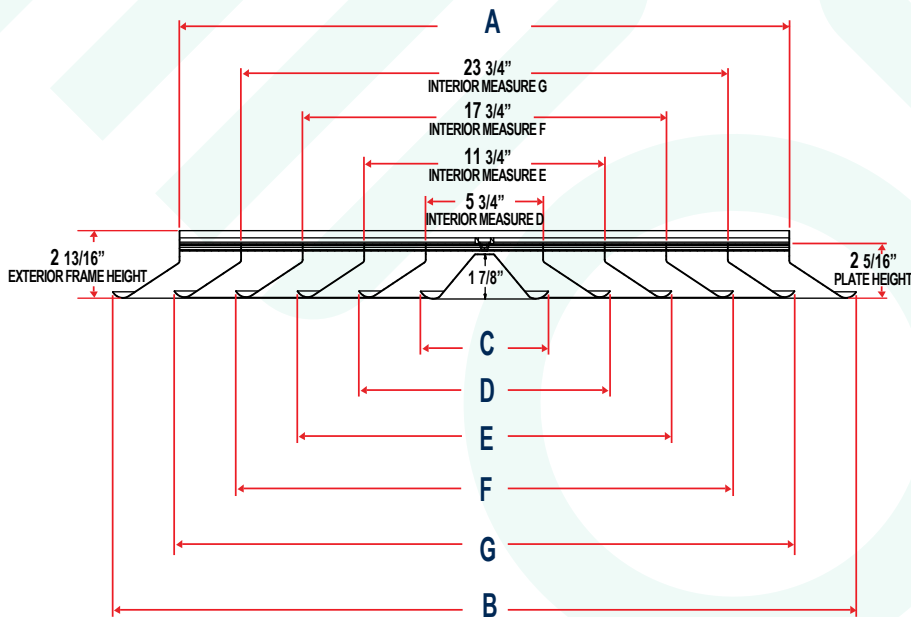
Standard white Anodic acrylic paint. Other colors available.

PERFORMANCE:

For HVAC application.

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

Dimensional Data



DIMENSION TABLE

NOMINAL NECK DIAMETER (A)	EXTERIOR FRAME (B)	PLATE 1 (C)	PLATE 2 (D)	PLATE 3 (E)	PLATE 4 (F)	PLATE 5 (G)
6"	12 1/4"	6 1/4"	0	0	0	0
8"	14 1/4"	8 1/4"	0	0	0	0
10"	16 1/4"	4 1/4"	10 1/4"	0	0	0
12"	18 1/4"	6 1/4"	12 1/4"	0	0	0
14"	20 1/4"	8 1/4"	14 1/4"	0	0	0
16"	22 1/4"	4 1/4"	10 1/4"	16 1/4"	0	0
18"	24 1/4"	6 1/4"	12 1/4"	18 1/4"	0	0
20"	26 1/4"	8 1/4"	14 1/4"	20 1/4"	0	0
22"	28 1/4"	4 1/4"	10 1/4"	16 1/4"	22 1/4"	0
24"	30 1/4"	6 1/4"	12 1/4"	18 1/4"	24 1/4"	0
26"	32 1/4"	8 1/4"	14 1/4"	20 1/4"	26 1/4"	0
28"	34 1/4"	4 1/4"	10 1/4"	16 1/4"	22 1/4"	0
30"	36 1/4"	6 1/4"	12 1/4"	18 1/4"	24 1/4"	30 1/4"

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**TABLE 1
PERFORMANCE DATA**

NECK DIAMETER		NECK VELOCITY (Feet/Min.)								
		400	500	600	700	800	900	1000	1200	1400
	VP	0.010	0.016	0.022	0.031	0.040	0.050	0.062	0.090	0.122
	TP	0.029	0.045	0.065	0.089	0.116	0.146	0.181	0.260	0.354
	CFM	80	100	120	140	160	180	200	235	275
6"	THROW	2-2-5	2-3-6	2-4-7	3-4-8	3-5-8	4-6-9	4-6-9	5-7-10	6-7-11
	NC	-	-	-	14	19	23	26	32	37
	CFM	140	175	210	245	280	315	350	420	490
8"	THROW	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	-	-	12	17	21	25	28	34	39
	CFM	218	273	327	382	436	491	545	654	763
10"	THROW	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
	NC	-	-	14	19	23	27	30	36	41
	CFM	315	390	470	550	630	705	785	940	1100
12"	THROW	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	20	25	29	32	38	43
	CFM	425	530	635	745	850	955	1060	1270	1490
14"	THROW	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	-	-	17	22	26	30	33	39	44
	CFM	560	700	840	980	1120	1260	1400	1680	1960
16"	THROW	4-7-13	5-8-16	7-10-18	8-11-20	9-13-21	10-15-23	11-16-24	13-18-26	15-20-28
	NC	-	12	18	23	27	31	34	40	45
	CFM	710	885	1060	1240	1420	1590	1770	2120	2480
18"	THROW	5-7-15	6-9-18	7-11-21	9-13-22	10-15-24	11-17-25	12-18-27	15-21-29	17-22-32
	NC	-	13	19	24	28	32	35	41	46
	CFM	875	1100	1310	1530	1750	1970	2190	2610	3060
20"	THROW	5-8-16	7-10-21	8-12-23	10-14-25	11-16-27	12-18-28	14-20-30	16-23-33	19-25-35
	NC	-	14	20	25	29	33	36	42	47

NOTES: FOR APPLICATION OF PERFORMANCE DATA IN THESE TABLES PLEASE REFER TO ENGINEERING DATA.

- 1- CFM IS CUBIC FEET PER MINUTE
- 2- TP IS TOTAL PRESSURE LOSS INCHES WATER COLUMN
- 3- THROW IS THE AIR STREAM 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: 10⁻¹² WATTS) IN ANY OF THE OCTAVE BAND, 2nd THROUGH 7th
- 5- IF 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, SUBSTRACT THE VELOCITY PRESSURE FROM THE TOTAL PRESSURE