ROUND DIFFUSER

FEATURES

- Constructed from extruded aluminum section.
- Fixed air pattern with stepped down & flush cone. Horizontal air pattern of 360 degrees with maximum performance range.
- Removable centre core affords access to accessories. All necessary adjustments are easily made without disturbing the ceiling or removing the diffuser.
- Diffuser are equipped with margins designed to minimize smudging. Minimum dirt development on ceiling in normal application.
- Duct rings for mounting furnished as standard. Diffuser outer shell fasten directly to ducting with concealed fasteners; margins fit tight to ceiling for optimum ceiling appearance. Cost savings result from less installation time.

FINISH

- Extruded Aluminum Construction:
  Natural anodized or baked enamel in white as a standard. Special anodize or baked enamel in various color are also available.

ASSESSORIES

- BD
  Buttery Damper for round necks. The dampers manufactured from sheet steel and the standard finish is baked enamel in black color.
- SBD
  Sliding blade damper for round necks. The dampers manufactured from sheet steel and the standard finish is baked enamel in black matt color.

DESCRIPTION

Round diffusers are recommended for heating, ventilating and cooling and are equipped down cores for maximum range of performance. High diffusion induction rates result in rapid temperature & velocity equalization occupancy.

ORDERING INFORMATION

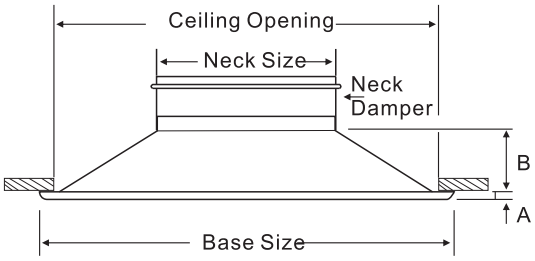
MODEL		MATERIAL		ACCESSORIES		SIZE
RF / RS	-	A/S	,	W/OBD / W/BD / W/SBD	.	BASE/NECK

- BASE/NECK: Base Size & Neck Size
- W/OBD / W/BD / W/SBD: W/OBD: Completed with Opposed Blade Damper; W/BD: Completed with Butterfly Damper; W/SBD: Completed with Sliding Blade Damper
- A/S: S: Steel construction; A: Extruded Aluminum
- RF / RS: RF: Round Diffuser Flush Face Type; RS: Round Diffuser Stepped Down Face Type

EXAMPLE: Model: RF-A, W/OBD . 350(B) / 150(N)
Aluminum Round Diffuser
Completed with Butterfly Damper
350 Base with 150 Neck

TYPE & DIMENSIONS

FLUSH FACE TYPE

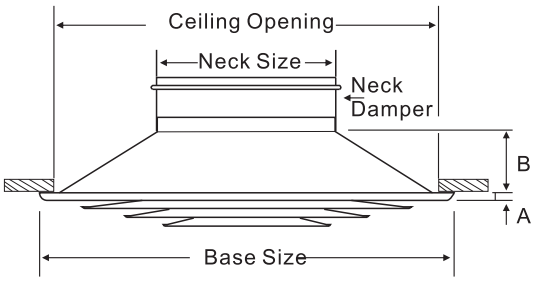


1) Flush cores for matching architectural requirements for flush appearance.

2) 360 degree air pattern with wide performance range.

BASE SIZE (mm)	NECK SIZE (mm)	CEILING OPENING (mm)	A (mm)	B (mm)
350	150 200	305 290	17 8	41 45
450	200 300	405 390	20 8	55 45
550 600	250 400 450	510 490	30 8	95 45 45
650	300	610	32	83
800	350	710	30	95
915	400	815	33	108
1030	450	915	38	124

STEPPED-DOWN FACE TYPE



1) Fully stepped-down cores for maximum range of performance.

2) 360 degree horizontal air pattern with maximum performance range.

BASE SIZE (mm)	NECK SIZE (mm)	CEILING OPENING (mm)	A (mm)	B (mm)
350	150	305	35	41
450	200	405	45	55
550	250	510	55	95
650	300	610	70	83
800	350	710	80	95
915	400	815	85	108
1030	450	915	95	124

REMARK: For special ceiling system, it is recommended that the dimensions of diffuser should be consulted carefully before ordering.

FREE AREA

NECK SIZE (mm)	150	200	250	300	350	400	450	500
FREE AREA (sq.m)	0.011	0.020	0.032	0.047	0.065	0.085	0.102	0.139

PERFORMANCE DATA

NECK SIZE (mm)	NECK AREA (m)	NECK VELOCITY(m/s)		2	2.5	3	3.5	4	4.5
		VELOCITY PRESURE(Pa)		2.5	4	6	8	10	13
		TOIAL PRESSURE(Pa)	HORIZONTAL(H)	5	9	12	16	21	27
			VERTICAL(V)	7	11	16	21	27	35
150	0.018	FLOW(m^3/s)		0.04	0.05	0.06	0.07	0.08	0.09
		THROW(m)		0.5-5-1	0.5-1-1	0.5-1-1.5	0.5-1-2	1-1.5-2	14.5-2.5
		NC Value		-	14	17	22	26	29
200	0.03	FLOW(m^3/s)		0.07	0.08	0.10	0.12	0.13	0.15
		THROW(m)		0.5-1-1	0.5-1-1.5	1-1-2	1-1.5-2	1-1.5-3	1-2-3
		NC Value		-	15	18	23	28	31
250	0.05	FLOW(m^3/s)		0.10	0.13	0.16	0.18	0.21	0.23
		THROW(m)		0.5-1-1.5	1-1-2	1-1.5-2	1-2-3	1-2-3.5	1.5-2.5-4
		NCValue		1	16	21	24	29	32
300	0.07	FLOW(m^3/s)		0.15	0.18	0.22	0.26	0.30	0.33
		THROW(m)		1-1-2	1-15-2	1-2-3	1.5-2-3.5	1.5-2.5-4	2-3-5
		NC Value		-	17	22	26	30	34
350	0.10	FLOW(m^3/s)		0.20	0.25	0.30	0.35	0.40	0.45
		THROW(m)		1-1.5-2.5	1-2-3	1.5-2.5-3.5	1.5-2.5-4	2-3-5	2.5-3.5-6
		NCValue		-	18	23	27	31	35
400	0.13	FLOW(m^3/s)		0.26	0.33	0.40	0.46	0.53	0.59
		THROW(m)		1-1.5-3	1.5-2.5-4	1.5-2.5-4.5	2-3-5	2-3.5-6	2.5-4-6.5
		NC Value		-	19	23	28	32	36
450	0.16	FLOW(m^3/s)		0.34	0.42	0.50	0.59	0.67	0.75
		THROW(m)		1-2-3	1.5-2.5-3	2-3-5	2-3.5-6	2.5-4-6.5	3-5-7
		NC Value		-	20	25	29	34	38

NOTES ON PERFORMANCE DATA:

1. Throw value shown are based on terminal velocities of 0.75m/s, 0.5m/s and 0.25m/s.
2. NC values are based on room attenuation of 10db when 10^{-12} watts is used as a reference.

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