ROUND DIFFUSER

SERIES: ACD-1

ACD Supply Diffusers are recommended for heating, ventilation and cooling, and are equipped with flush cores for matching architectural requirements for flush appearance. High diffusion induction rates result in rapid temperature and velocity equalization of the mixed air mass well above the zone of occupancy. Horizontal performance assures confident use of cooling temperature differentials of 30 F and greater, at predicted low air motion (35 fpm) in the zone of occupancy.

BUTTERFLY DAMPER

SERIES: D1

FEATURES

- * Fixed air pattern with flush core. 360 degree air pattern with wide performance range.
- * Removable center core affords access to accessories & fixing. All accessory adjustments easily made without disturbing ceiling or removing diffuser.
- * Core are interchangeable with stepped-down core in the field without disturbing ceiling.
- * Diffusers are equipped with margins designed to minimize smudging. Minimum dirt development on ceiling in normal applications.
- * Diffusers are constructed of aluminium.
- * Oven baked hardened finish to matching ceiling surface. Special colour finishes are applied over baked finish and are avaliable to matching architectural requirements.

Price including standard powder coating finish (RAL 9010, RAL 9016 Black, White, Other colour can be supplied on request at extra 10% additional charges.)

- * Economical air volume control device.
- * Installs directly behind Round Ceiling Diffusers.
- Screw Driver operated damper assembly provides full range volume control.
- * Damper is constructed of steel.

ALUMINIUM ROUND CEILING DIFFUSER									
Unit	6	8	10	12	14	18			
BASE SIZE	Ø 300mm	Ø 350mm	Ø 400mm	Ø 450mm	Ø 500mm	Ø 600mm			
NECK SIZE	Ø 150mm	Ø 200mm	Ø 250mm	Ø 300mm	Ø 350mm	Ø 450mm			

PERFORMANCE TABLE FOR ACD-1

SIZE	NECK VELOCITY (m/s)	1	2	3	4	5
6	AIR VOLUME (L/s)	18	35	53	70	88
Ø 300mm (BASE)	TOTAL PRESSURE LOSS (Pa)	2	9	21	37	58
Ø 150mm (NECK)	DIFF.RADIUS (M)	0.5-1	0.8-1.5	1-2.1	1.5-3	2.0-4
	NC RATING			18	26	34
8	AIR VOLUME (L/s)	31	63	94	126	157
Ø 350mm (BASE)	TOTAL PRESSURE LOSS (Pa)	2	9	21	31	40
Ø 200mm (NECK)	DIFF.RADIUS (M)	0.5-1	0.9-1.8	1.5-3	2-4	2.5-5
	NC RATING		18	21	31	40
10	AIR VOLUME (L/s)	49	98	147	196	245
Ø 400mm (BASE) Ø 250mm (NECK)	TOTAL PRESSURE LOSS (Pa)	2	9	21	34	43
	DIFF.RADIUS (M)	0.6-1.2	1.1-2.3	1.8-3.6	2.4-4.8	3.2-6.5
	NC RATING			25	35	43
12 Ø 450mm (BASE)	AIR VOLUME (L/s)	71	141	212	282	353
	TOTAL PRESSURE LOSS (Pa)	2	9	21	37	58
Ø 300mm (NECK)	DIFF.RADIUS (M)	0.7-1.5	1.4-2.8	2.1-4.2	2.8-5.6	4-8
	NC RATING		18	29	39	46
14	AIR VOLUME (L/s)	96	192	288	384	481
Ø 500mm (BASE)	TOTAL PRESSURE LOSS (Pa)	3	12	27	48	75
Ø 350mm (NECK)	DIFF.RADIUS (M)	0.9-1.9	1.8-3.6	2.7-5.4	3.6-7.2	5.2-10
	NC RATING		19	31	41	48
18 Ø 600mm (BASE) Ø 450mm (NECK)	AIR VOLUME (L/s) TOTAL PRESSURE LOSS (Pa)	159	318	477	636 72	795 112
	DIFF.RADIUS (M)	1.3-2.5	2.5-5	3.8-7.6	5-10	6-12
	NC RATING		21	35	45	53
Maximum throw a	nd minimum throw w	vere based on t	erminal velocity	y of 0.25 m/s ar	nd 0.1 m/s room	velocity.
	c) values were taken is	n a reverberan	t room of 8db ro	oom effect.	1	
Total Pressure Wit	h Damper				9-10-2	