

CEILING DIFFUSERS





CEILING DIFFUSERS



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Cover Page Photo

Yas Marina Circuit, Yas Island, Abu Dhabi. Airmaster has supplied for several hotels and commercial buildings in Yas Island, Abu Dhabi.



One Way Throw

DIFFUSERS

CEILING

model: ACD1+D

CONSTRUCTION:

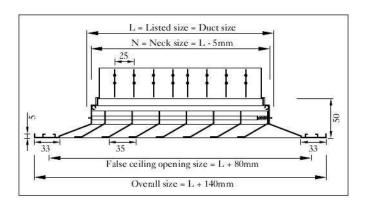
Frame and core: High quality extruded aluminium profile with 33 mm flange width.

Damper frame and core: High quality extruded aluminium profile with natural aluminium finish. Black matt finish as option.



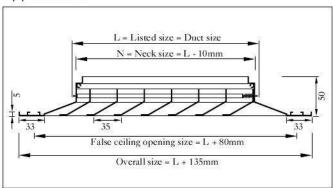
Description:

- The frame and blades are of high quality extuded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Louvered type core is fixed to the frame with aluminium pins loaded with steel springs. Core can be easily removable and interchangeable to allow for maximum flexibility in installation, maintenance and damper adjustment.
- Damper is fixed rigidly to the frame by aluminium rivets. Fixing by spring clips as option.
- Damper blades are separated from its frame by nylon bushes.
- Opposed blade damper is screw operated from the face opening of the diffuser after removing the internal core. Lever operated damper as option.
- Discharges air horizontally in one way, either X or Y directions as per pattern arrangement.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Available in rectangular sizes as option.
- Suitable for flush mounting in lay in type ceiling.



Model ACD1:

Same as ACD1+D, but without opposed blade damper and foam gasket. Suitable for return air applications.



CEILING

model: ACD2+D

SUPPLY AIR SQUARE CEILING DIFFUSER

Two Way Throw



CONSTRUCTION:

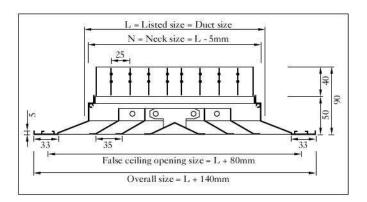
Frame and core: High quality extruded aluminium profile with 33 mm flange width.

Damper frame and core: High quality extruded aluminium profile with natural aluminium finish. Black matt finish as option.



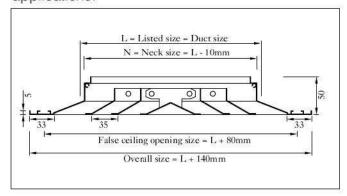
Description:

- The frame and blades are of high quality extuded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Louvered type core is fixed to the frame with aluminium pins loaded with steel springs. Core can be easily removable and interchangeable to allow for maximum flexibility in installation, maintenance and damper adjustment.
- Damper is fixed rigidly to the frame by aluminium rivets. Fixing by spring clips as option.
- Damper blades are separated from its frame by nylon bushes.
- Opposed blade damper is screw operated from the face opening of the diffuser after removing the internal core. Lever operated damper as option.
- Discharges air in both the ways, either X or Y directions as per pattern arrangement.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Available in rectangular sizes as option.
- Suitable for flush mounting in lay in type ceiling.



Model ACD2:

Same as ACD2+D, but without opposed blade damper and foam gasket. Suitable for return air applications.



model: ACD2C+D

CEILING **DIFFUSERS**

Two Way Corner Throw

CONSTRUCTION:

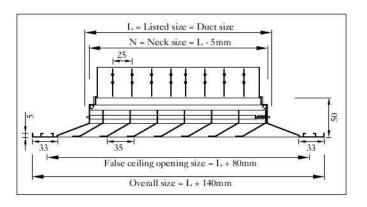
Frame and core: High quality extruded aluminium profile with 33 mm flange width.

Damper frame and core: High quality extruded aluminium profile with natural aluminium finish. Black matt finish as option.



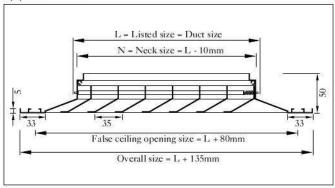
Description:

- The frame and blades are of high quality extuded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Louvered type core is fixed to the frame with aluminium pins loaded with steel springs. Core can be easily removable and interchangeable to allow for maximum flexibility in installation, maintenance and damper adjustment.
- Damper is fixed rigidly to the frame by aluminium rivets. Fixing by spring clips as option.
- Damper blades are separated from its frame by nylon bushes.
- Opposed blade damper is screw operated from the face opening of the diffuser after removing the internal core. Lever operated damper as option.
- Discharges air in one way, equally in X and Y direction.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Available in rectangular sizes as option.
- Suitable for flush mounting in lay in type ceiling.



Model ACD2C:

Same as ACD2C+D, but without opposed blade damper and foam gasket. Suitable for return air applications.



CEILING DIFFUSERS

model: ACD3+D

SUPPLY AIR SQUARE CEILING DIFFUSER

Three Way Throw



CONSTRUCTION:

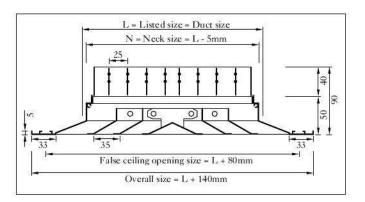
Frame and core: High quality extruded aluminium profile with 33 mm flange width.

Damper frame and core: High quality extruded aluminium profile with natural aluminium finish. Black matt finish as option.



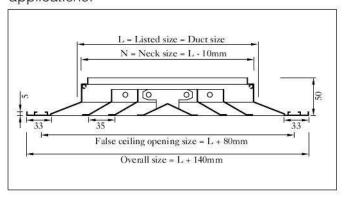
Description:

- The frame and blades are of high quality extuded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Louvered type core is fixed to the frame with aluminium pins loaded with steel springs. Core can be easily removable and interchangeable to allow for maximum flexibility in installation, maintenance and damper adjustment.
- Damper is fixed rigidly to the frame by aluminium rivets. Fixing by spring clips as option.
- Damper blades are separated from its frame by nylon bushes.
- Opposed blade damper is screw operated from the face opening of the diffuser after removing the internal core. Lever operated damper as option.
- Frame with multicore assembly, discharges air horizontally in three directions.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Available in rectangular sizes as option.
- Suitable for flush mounting in lay in type ceiling.



Model ACD3:

Same as ACD3+D, but without opposed blade damper and foam gasket. Suitable for return air applications.



Four Way Throw

model: ACD4+D

CEILING **DIFFUSERS**

CONSTRUCTION:

Frame and core: High quality extruded aluminium profile with 33 mm flange width.

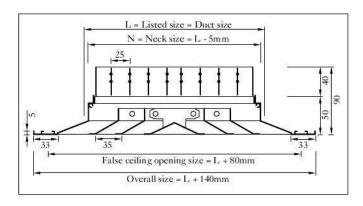
Damper frame and core: High quality extruded aluminium profile with natural aluminium finish. Black matt finish as option.

Optional diffuser frame: Stamped aluminium core.



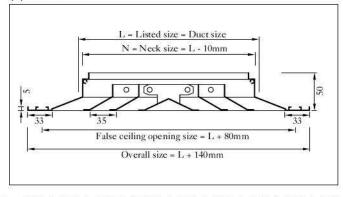
Description:

- The frame and blades are of high quality extuded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- · Diffusers shall be coned type with each cone manufactured by extruded aluminium louvered profiles or one piece die formed aluminium construction - arranged in concentric cones to deflect air equally in four directions.
- Louvered type core is fixed to the frame with aluminium pins loaded with steel springs. Core can be easily removable and interchangeable to allow for maximum flexibility in installation, maintenance and damper adjustment.
- Damper is fixed rigidly to the frame by aluminium rivets. Fixing by spring clips as option.
- Damper blades are separated from its frame by nylon bushes
- Opposed blade damper is screw operated from the face opening of the diffuser after removing the internal core. Lever operated damper as option.
- Discharge air equally four horizontal in directions.
- · Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Available in rectangular sizes as option. Suitable for flush mounting in lay in type ceiling.



Model ACD4:

Same as ACD4+D, but without opposed blade damper and foam gasket. Suitable for return air applications.



model: ACD4+D (AS)

ANTI-SMUDGE CEILING DIFFUSER



CONSTRUCTION:

Frame and core: High quality die formed aluminium construction as standard. High quality extruded aluminium profiles as option.

Damper frame and core: High quality extruded aluminium profile with natural aluminium finish. Black matt finish as option.



Description:

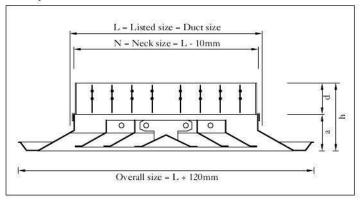
- Outer cone design minimizes smudging by reducing the dust accumulation on the ceiling around the diffuser.
- The frame and core are of high quality stamped aluminium construction as standard or high quality extruded aluminium profiles as option with the advantages of corrosion resistance and rigidity.
- Louvered type core is fixed to the frame with aluminium pins loaded with steel springs.
 Complete inner core assembly can be easily removed to allow for maximum flexibility in installation, maintenance and damper adjustment.
- Damper is fixed rigidly to the frame by aluminium rivets. Fixing by spring clips as option.
- Damper blades are separated from the frame by nylon bushes.
- Opposed blade damper is screw operated from the face opening of the diffuser after removing the inner core.
- Discharge air equally in four horizontal directions.
- Foam gasket is sealed around the back of the frame to avoid air leakage.

Standard finishes:

- Natural aluminium anodized finish.
- Powder coated colour finish as per RAL colour codes.
- Flexibility of finishing is available as option.

Models ACD4(AS):

- Same as ACD4+D(AS) but without damper and foam gasket.
- Also available in one way, two way and three way throws.





RECTANGULAR CEILING DIFFUSER

CEILING DIFFUSERS

model: ACD4R+D

CONSTRUCTION:

Frame and core: High quality extruded aluminium profile with 33 mm flange width.

Damper frame and core: High quality extruded aluminium profile with natural aluminium finish. Black matt finish as option.



Description:

- The frame and blades are of high quality extuded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Diffusers shall be coned type with each cone manufactured by extruded aluminium louvered profiles, arranged in concentric cones to deflect air equally in four directions.
- Damper is fixed rigidly to the frame by aluminium rivets. Fixing by spring clips as option.
- Damper blades are separated from its frame by nylon bushes.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- This product can be manufactured for one, two, three and four way throws.
- Diffusers are available in rectangular sizes as per clients choice.

Model ACD4R:

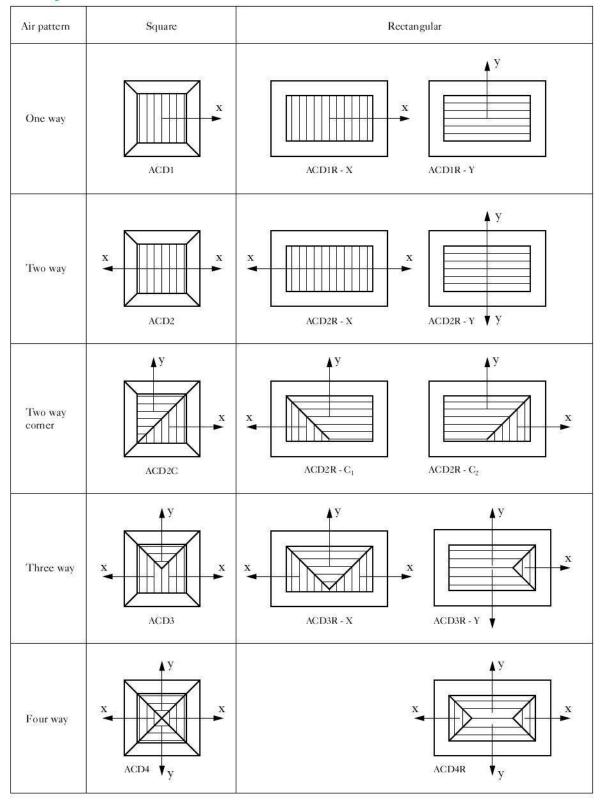
Construction same as ACD4R+D, without opposed blade damper and foam gasket.



CORE PATTERN CEILING DIFFUSER



Core pattern:



CEILING TILE REPLACEMENT DIFFUSER

model: ACDM

CONSTRUCTION:

Frame and core: High quality die formed aluminium sheets with suitable flange as outer frame.

Damper frame and blades: High quality extruded aluminium profile with natural finish. Black matt finish as option.



Description:

- The basic concept of having ACD module type is to replace a ceiling tile by diffuser of any neck size. Thus the alignment of tiles are not altered.
- The frame and blades are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Diffusers are coned type, each cone is manufactured as one piece die formed aluminium construction arranged in concentric pattern to deflect air in four directions.
- 3 way, 2 way, 1 way, cones are available as option and are manufactured of high quality extruded aluminium.
- Louvered type core is fixed to the outer frame, which has a constant outer size (600mm x 600mm) for different neck sizes, with steel springs core can be easily removable and interchangeable to allow for maximum flexibility in installation, maintenance and damper adjustment.
- Damper is fixed rigidly to the frame by aluminium rivets. Fixing by spring clips as option.
- Damper blades are separated from its frame by nylon bushes.
- Opposed blade damper is screw operated from the face opening of the diffuser after removing the internal core. Lever operated damper as option.

- Discharge air equally in four horizontal directions.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.

Finishes:

- Natural aluminium anodized finish.
- Powder coated colour finish as per RAL colour codes.



ACD Module return diffusers are available without damper and foam gasket for return air applications.

S.No	Neck Size (in mm)	Outer flange size (in mm)		
1.	150 x 150	600 x 600		
2.	225 x 225	600 x 600		
3.	300 x 300	600 x 600		
4.	375 x 375	600 x 600		
5.	450 x 450	600 x 600		

Mode	ls
ACDM-4	4 way
ACDM-3	3 way
ACDM-2	2 way
ACDM-1	1 way

model: ACCD

COMBINEDCEILING DIFFUSER



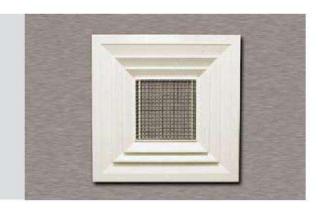
CONSTRUCTION:

Frame: High quality extruded aluminium profile with 33 mm flange width.

Core: High quality extruded aluminium profile with natural aluminium finish.

Return air core: 12.5 mm x 12.5 mm x 12.5

mm aluminium egg crate grid.

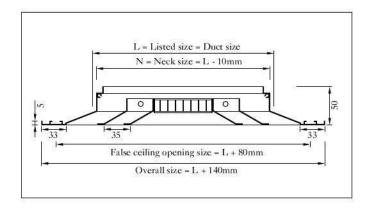


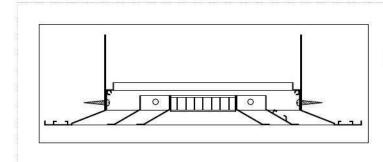
Description:

- Frame and core is of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Return air grid is located centrally in the diffuser.
- Supply air inner cores are mounted to the frame by 4 machine screws and two steel springs.
- Return air egg crate grid is rigidly fixed to inner core by rivets.
- Core and return air grid can be easily removed as a single piece to allow for maximum flexibility in installation and maintenance.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Available in square size as standard. Rectangular sizes as option.

Standard finishes:

- · Natural anodized aluminium finish.
- Powder coated colour finish as per RAL colour codes.
- Flexibility of finish is available as option.





Fixing details:

Concealed screw fixing from neck of the diffuse to the duct.



CURVED BLADE CEILING DIFFUSER

model: ACBD

Adjustable Pattern

CONSTRUCTION:

Frame: High quality extruded aluminium profile with 30mm flange width.

Blades: Aerofoil blades from aluminium

profiles.

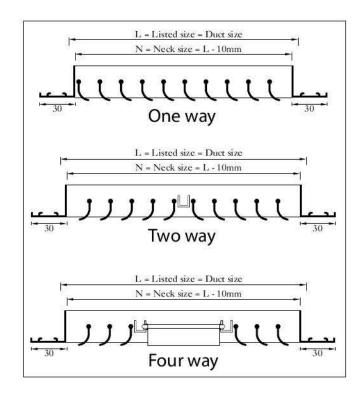


Description:

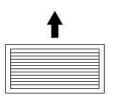
- The frame and blades are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Frame is separated from aerofoil blades by nylon bushings. This ensures quiet, smooth and rattle free operation.
- Frame gasket is sealed around the back of the frame as option to avoid air leakage.

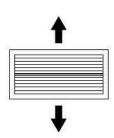
Standard finishes:

- Powder coated as per RAL colour codes.
- Flexibility of finishing is available as option.









model: **ACBD**

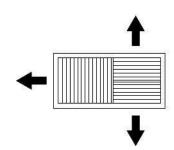
CURVED BLADE CEILING DIFFUSER



Adjustable Pattern

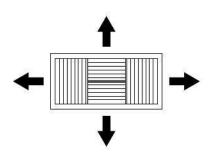
Three way





Four way





Standard sizes:

				He	ight		
		100	200	300	400	500	600
	200	Х	х				
	300	х	х	х			
Ī	400		Х	х	Х		
Length	500		Х	Х	Х	Х	
Len	600		Х	х	Х	Х	Х
	800		Х	×	Х	х	Х
	1000			х	Х	Х	Х
	1200			х	х	×	×

Other sizes available on request.



ADJUSTABLE SWIRL CEILING DIFFUSER

CONSTRUCTION:

Diffuser: 1.2mm (or) 1.5mm thick aluminium sheet. Diffuser Blades: Easily rotatable plastic blades

Neck: Standard size 250 dia.

Module: 600mmx600mm, 595mmx595m.

Plenum: 20 gauge (or) 22 gauge thick GI sheet.

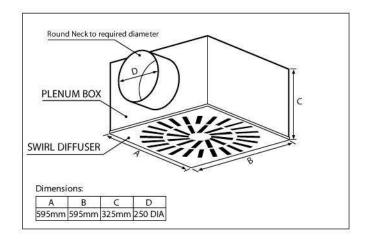


Description:

- · Diffuser is made by punching high quality aluminium sheet and fixed with easily rotatable plastic blades.
- The slotted circular face design with easily adjustable plastic blades provides both horizontal and vertical projection of air discharge all over the occupant area.
- Supply air jet velocity is effectively reduced due to high mixing effect.
- · Ability to create either an external or internal swirl.
- Diffuser can be fixed up to a height of 4.5m.

Standard finishes:

Powder coated as per RAL colour codes.



Plenum Neck size 250dia, Module size 600x600mm

Air flow in CFM	186	234	280	327	374	419	464	511	566
Air flow in m³/sec	0.088	0.111	0.132	0.154	0.176	0.197	0.219	0.241	0.267
Face velocity in m/sec	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
P loss in mm of H ₂ O	0.410	0.640	0.922	1.26	1.64	2.05	2.46	2.96	3.57
Throw in meters	1.3-2.0	1.8-2.6	2.1-3.2	2.4-3.6	2.6-4.3	3.1-4.7	3.6-5.4	4.2-6.2	5.0-6.8
NC	<15	18	23	28	31	35	39	43	50

- Neck velocity is measured in m/sec.
- P.: Static pressure loss across the diffuser in mm of H₂O.
- Throw (meters) is measured for terminal velocities of 0.75, 0.5 & 0.25 m/sec.
- Noise criteria (NC) based on a room attenuation of 10 dB.

model: ASD-F

FIXED SWIRL CEILING DIFFUSER



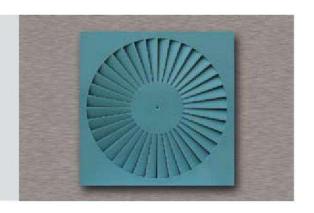
CONSTRUCTION:

Diffuser: 1.2mm (or) 1.5mm thick aluminium sheet.

Neck: Standard size 250 dia.

Module: 600mmx600mm, 595mmx595mm.

Plenum: 20 gauge (or) 22 gauge thick GI sheet.

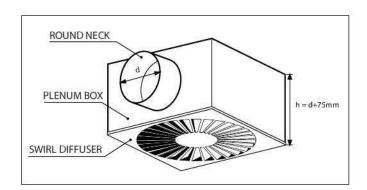


Description:

- Diffuser is made by punching high quality aluminium sheet.
- The slotted rotary face design and the circular pattern of the radial fixed vanes provide the swirl air horizontal distribution all over the occupant area.
- Supply air jet velocity is effectively reduced due to high mixing effect.
- The diffuser can be fixed upto a height of 4.5m.

Standard finishes:

Powder coated as per RAL colour codes.



Plenum Neck size 250dia, Module size 600x600mm

Air flow in CFM	212	265	318	371	424	477	530	583	636
Air flow in m³/sec	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300
Face velocity in m/sec	2	2.5	3	3.5	4	4.5	5	5.5	6
P loss in mm of H ₂ O	0.315	0.563	0.811	1.103	1.441	1.808	2.175	2.675	3.475
Throw in meters	0.9-1.6	1.3-2.0	1.6-2.5	2.0-2.9	2.3-3.4	2.6-3.9	3.1-4.4	3.7-5.0	4.0-5.7
NC	16	20	26	30	34	39	45	50	>50

- Neck velocity is measured in m/sec.
- P_s: Static pressure loss across the diffuser in mm of H₂O.
- Throw (meters) is measured for terminal velocities of 0.75, 0.5 & 0.25 m/sec.
- Noise criteria (NC) based on a room attenuation of 10 dB.





STANDARD FINISHES, SIZES, FIXING DETAILS &

PRODUCT SUMMARY

Standard finishes:

- Natural aluminium anodized finish.
- Powder coated colour finish as per RAL colour codes.
- Flexibility of finishing is available as option.

Standard sizes:

- Available in square and rectangular
- Any combination of W x D.

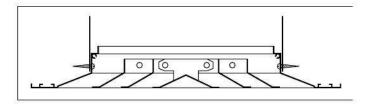
W = width in mm	150	225	300	375	450	525	600
D = Depth in mm	150	225	300	375	450	525	600

False ceiling sizes:

Duct size in mm x mm	150 x 150	225 x 225	300 x 300	375 x 375	450 x 450	525 x 525	600 × 600
False ceiling opening size	230 x 230	305 x 305	380 x 380	455 x 455	530 x 530	605 x 605	605 x 605

Fixing details:

 Concealed screw fixing from neck of the diffuser to the duct, after removing the inner core.



Product summary:

Model Number	Product Description	Remarks
ACD1+D	Supply Air Diffuser – 1 way	
ACD2+D	Supply Air Diffuser – 2 way	With damper
ACD2C+D	Supply Air Diffuser - 2 way corner	Optional accessories
ACD3+D	Supply Air Diffuser – 3 way	• Filter
ACD4+D	Supply Air Diffuser – 4 way	Equalizing grid
ACD4+D(AS)	Supply Air Diffuser – Anti smudge	Plenum (chapter 15)
ACD4R+D	Supply Air Diffuser - rectangular	
ACD1	Return Air Diffuser – 1 way	
ACD2	Return Air Diffuser – 2 way	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
ACD2C	Return Air Diffuser – 2 way corner	Without damper
ACD3	Return Air Diffuser – 3 way	Without foam gasket
ACD4	Return Air Diffuser – 4 way	Optional accessories
ACD4(AS)	Return Air Diffuser – Anti smudge	• Filter
ACD4R	Return Air Diffuser – rectangular	
ACCD	Combined Ceiling Diffuser	
ACDM	Ceiling Tile Replacement Diffuser	
ACBD	Curved Blade Adjustable Diffuser	
ASD-A	Swirl Diffuser - Adjustable	
ASD-F	Swirl Diffuser - Fixed	

Product order checklist:

- · Model number (please refer product summary).
- Size.
- Colour (RAL 9010, 9016, Anodized aluminium finish or other RAL Colours)
- Quantity.
- · Optional accessories.

DIFFUSER ACCESSORIES



1. EQUALIZING GRID:

- Equalizing grid is fixed to the damper by rivets.
- Equalizing grid is manufactured from high quality aluminium profiles with aerofoil blades connected by plastic bushes. Finish will be same as damper.
- Damper

 Damper

 Damper

 Damper

 Overall size = L + 140mm

 L = Listed size = Duct size

 N = Neck size = L 5mm

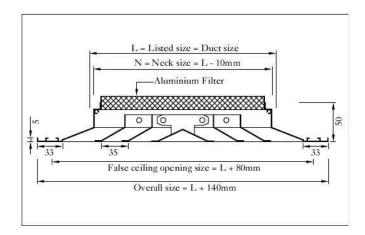
 Equalizing grid

 Overall size = L + 140mm
- This assembly will provide uniform air distribution over the neck of the diffuser, which ensures reduction in pressure drop, noise and trubulence.
- To order, mention model from Product summary + E.



2. FILTERS:

- Ceiling diffusers available with removable type washable aluminium filters with aluminium mesh as the filter media.
- Fabricated from 1 mm thick aluminium sheet with aluminium mesh as the filter media.
- Filter frame is screw fixed to the diffuser.
- Generally available in 12, 25, 40 and 50 mm thickness as standard.
- Structure will have high dust holding capacity and low resistance to air flow.
- Other insulating materials available as option.
- To order, mention model from product summary + F.



One Way Throw

model: ACD1+D



Table 6.1 Air flow data

Neck size in mm x mm Area factor In m ²	Neck vel in m/sec	1.0	1.5	2.0	2.5	3.0	3.5
	Cfm	47	72	95	119	144	167
150 x 150	M³/sec.	0.023	0.034	0.045	0.056	0.068	0.079
	P _s in mm H2O	0.69	1.05	2.11	3.54	4.98	6.44
0.0098	Throw in m	1.3-2-2.7	2-2.8-3.6	2.8-3.7-4.4	3.3-4.2-4.9	4-4.7-5.9	4.4-5.5-6.2
	NC	<15	16	21	27	34	39
	Cfm	108	161	214	269	322	375
225 x 225	M³/sec.	0.051	0.076	0.101	0.127	0.152	0.177
	P _s in mm H2O	069	1.37	2.8	4.26	6.05	8.23
0.018	Throw in m	1.3-2-2.7	2.0-2.8-3.9	2.9-3.7-5.2	3.8-5.3-6.8	5.1-7-9.3	7-8.6-11.6
	NC	<15	17	24	30	36	41
	Cfm	191	286	381	476	572	667
300 x 300	M³/sec.	0.09	0.135	0.18	0.225	0.27	0.31
	P _s in mm H2O	0.69	1.75	3.17	5.31	7.46	10.4
0.03	Throw in m	2.4-3.5-5.5	3.6-5.0-7.1	4.8-5.9-8.8	5.7-7.2-9.8	6.3-7.4-11	7-8.6-12.5
	NC	<15	17	26	33	38	43
	Cfm	299	447	595	745	893	1042
375 x 375	M³/sec.	0.141	0.211	0.281	0.352	0.422	0.492
	P _s in mm H2O	1.03	2.09	3.52	5.66	8.18	11.46
0.046	Throw in m	2.7-4.1-6.2	4.6-6.4-8.8	6.2-7.3-10.6	7.2-8.7-12.5	7.8-9-7-14.5	8.6-10.5-15.6
	NC	<15	18	28	35	40	44
	Cfm	430	644	858	1071	1287	1501
450 x 450	M³/sec.	0.203	0.304	0.405	0.506	0.608	0.709
	P _s in mm H2O	1.03	2.09	3.86	6.38	9.24	11.46
0.0695	Throw in m	3.5-5.2-8.5	5.3-7.4-10.6	7.9-9.1-12.8	8.3-10.5-5-15	9.7-11.8-17	10.5-13-18
	NC	<15	20	30	36	41	44
	Cfm	585	875	1165	1461	1757	2033
525 x 525	M³/sec.	0.276	0.413	0.55	0.69	0.83	0.96
	P _s in mm H2O	1.03	2.45	4.22	6.74	9.6	11.83
0.099	Throw in m	4.1-5.8-9.5	6-8.8-12.6	8.4-10.2-15	9.8-12-17.4	10.9-14-20	12-14.8-21.5
	NC	15	23	32	37	42	45
	Cfm	762	1143	1524	1906	2287	2668
600 x 600	M³/sec.	0.36	0.54	0.72	0.9	1.08	1.26
	P _s in mm H2O	1.03	2.45	4.22	6.74	9.6	11.83
0.139	Throw in m	4.5-6.5-11.6	6.7-9.1-14	9.1-12-17.1	10.5-14-20	12-16-23	12.8-17.2-24
	NC	16	26	33	38	42	45

- Neck velocity is measured in m/sec.
- P_s: Static pressure loss across the diffuser in mm of H_sO.
- Throw (meters) is measured for a terminal velocities of 0.75, 0.5 & 0.25 m/sec.
- Noise criteria (NC) based on a room attenuation of 10 dB.

model: ACD2+D

SUPPLY AIR SQUARE CEILING DIFFUSER

air master
ISO 9001 CERTIFIED COMPANY

Two Way Throw

Table 6.2 Air flow data

Neck size in mm x mm Area factor In m ²	Neck vel in m/sec	1.0	1.5	2.0	2.5	3.0	3.5
	Cfm	47	72	95	119	144	167
150 x 150	M³/sec.	0.023	0.034	0.045	0.056	0.068	0.079
	P _s in mm H ₂ O	0.64	0.87	2.02	3.41	4.83	6.1
0.0096	Throw in m	1.3-2-2.7	2-2.8-3.6	2.8-3.7-4.4	3.2-4-4.8	3.8-4.5-5.6	4.1-5.2-6
	NC	<15	16	21	27	34	39
	Cfm	108	161	214	269	322	375
225 x 225	M³/sec.	0.051	0.076	0.101	0.127	0.152	0.177
	P _s in mm H ₂ O	0.64	1.29	2.7	4.1	5.86	7.77
0.0175	Throw in m	1.3-2-2.7	2-2.8-3.9	2.8-3.7-5.1	3.7-5.2-6.6	4.8-6.7-9	6.7-8.2-11
	NC	<15	17	24	30	36	41
	Cfm	191	286	381	476	572	667
300 x 300	M³/sec.	0.09	0.135	0.18	0.225	0.27	0.315
	P _s in mm H ₂ O	0.64	1.64	3.05	5.1	7.23	9.81
0.029	Throw in m	2.4-3.5-5.5	3.6-4.9-7	4.7-5.8-8.6	5.5-6.9-9.5	5.9-7.1-11	6.7-8.4-12
	NC	<15	17	26	33	38	43
	Cfm	299	447	595	745	893	1042
375 x 375	M³/sec.	0.141	0.211	0.281	0.352	0.422	0.492
	P _s in mm H ₂ O	0.96	1.96	3.71	5.5	7.92	10.81
0.045	Throw in m	2.7-4.1-6.2	4.6-6.3-8.7	6.1-7.2-10.4	6.9-8.4-12.1	7.4-9.3-14	8.1-10-14.9
	NC	<15	18	28	35	40	44
	Cfm	430	644	858	1071	1287	1501
450 x 450	M³/sec.	0.203	0.304	0.405	0.506	0.608	0.709
	P _s in mm H ₂ O	0.96	1.96	4.06	6.68	8.9	12.16
0.068	Throw in m	3.4-5.1-8.5	5.3-7.4-10	8.3-10-15	8-10.2-14.6	9.3-11-16.3	10-12.3-17
	NC	<15	20	30	36	41	44
	Cfm	585	875	1165	1461	1757	2033
525 x 525	M³/sec.	0.276	0.413	0.55	0.69	0.83	0.96
	P _s in mm H ₂ O	0.96	2.29	4.06	6.49	9.31	11.1
0.097	Throw in m	4.1-5.8-9.5	6-8.7-12.6	8.3-10-15	9.5-11.8-17	10.4-13.4-19	11.6-14.1-20
	NC	15	23	32	37	42	45
	Cfm	762	1143	1524	1906	2287	2668
600 x 600	M³/sec.	0.36	0.54	0.72	0.9	1.08	1.26
	P _s in mm H ₂ O	0.96	2.29	4.06	6.49	9.31	11.1
0.136	Throw in m	4.5-6.5-11	6.6-9-14	9-11.8-16.9	10.2-13.6-19	11.4-15.2-22	12.2-16-23
	NC	16	26	33	38	42	45

- Neck velocity is measured in m/sec.
- P_s: Static pressure loss across the diffuser in mm of H_sO.
- Throw (meters) is measured for a terminal velocities of 0.75, 0.5 & 0.25 m/sec.
- Noise criteria (NC) based on a room attenuation of 10 dB.



model: ACD3+D

DIFFUSERS

CEILING

Three Way Throw

Table 6.3 Air flow data

Neck size in mm x mm Area factor In m²	Neck vel in m/sec	1.0	1.5	2.0	2.5	3.0	3.5
	Total CFM	47	72	95	119	144	167
	Total M³/Sec	0.023	0.034	0.045	0.056	0.068	0.079
	M³/Sec each side of X	0.008	0.013	0.017	0.021	0.025	0.03
150 x 150	M³/Sec in Y side	0.007	0.008	0.011	0.014	0.018	0.019
0.0095	P _s in mm of H ₂ O	0.56	0.85	1.72	2.87	4.06	5.29
0.0033	Throw in each side of X-(M)	1.2-1.8-2.4	1.8-2.4-3.1	2.4-3.1-3.7	2.7-3.4-4	3.1-3.7-4.6	3.4-4.3-4.9
	Throw in Y side-(M)	1.2-1.8-2.5	1.8-2.6-3.4	2.6-3.4-4.0	3.0-3.7-4.4	3.5-4.1-5.0	3.7-4.7-5.4
	NC	<15	16	21	27	34	39
	Total CFM	108	161	214	269	322	375
	Total M³/Sec	0.051	0.076	0.101	0.127	0.152	0.177
005 005	M³/Sec each side of X	0.019	0.028	0.038	0.048	0.057	0.066
225 x 225	M³/Sec in Y side	0.013	0.020	0.025	0.031	0.038	6.72
0.0172	P _s in mm of H ₂ O	0.56	1.12	2.29	3.45	4.92	5.84
	Throw in each side of X-(M)	1.2-1.8-2.4	1.8-2.4-3.4	2.4-3.1-4.3	3.1-4.3-5.5	4.0-5.5-7.3	5.5-6.7-9.1
	Throw in Y side-(M)	1.2-1.8-2.5	1.8-2.6-3.7	2.6-3.4-4.7	3.4-4.8-6.1	4.4-6.1-8.2	6.1-7.5-10.1
	NC	<15	17	24	30	36	41
	Total CFM	191	286	381	476	572	667
	Total M³/Sec	0.09	0.135	0.18	0.225	0.27	0.315
300 x 300	M³/Sec each side of X	0.033	0.051	0.068	0.084	0.101	0.118
300 X 300	M³/Sec in Y side	0.024	0.033	0.044	0.057	0.068	0.079
0.028	P _s in mm of H ₂ O	0.56	1.45	2.59	4.36	6.08	8.48
U.UZ0	Throw in each side of X-(M)	2.1-3.1-4.9	3.1-4.3-6.1	4.0-4.9-7.3	4.6-5.8-7.9	4.9-5.8-9.1	5.5-6.7-9.8
	Throw in Y side-(M)	2.1-3.3-5.2	3.4-4.6-6.5	4.3-5.4-8.0	5.1-6.3-8.5	5.4-6.6-10.1	6.2-7.7-10.6
	NC	<15	17	26	33	38	43
	Total CFM	299	447	595	745	893	1042
	Total M³/ Sec	0.141	0.211	0.281	0.352	0.422	0.492
975 × 975	M³/Sec each side of X	0.053	0.079	0.105	0.132	0.158	0.185
375 x 375	M³/Sec in Y side	0.035	0.053	0.071	0.088	0.106	0.122
0.044	P _s in mm of H ₂ O	0.84	1.70	2.87	4.59	6.66	9.35
0.044	Throw in each side of X-(M)	2.4-3.7-5.5	4.0-5.5-7.6	5.2-6.1-8.8	5.8-7.0-10.1	6.1-7.6-11.3	6.7-8.2-12.2
	Throw in Y side-(M)	2.5-3.9-5.8	4.3-5.9-8.2	5.6-6.7-9.4	6.4-7.6-10.9	6.7-8.3-12.5	7.4-9.1-13.4
	NC	<15	18	28	35	40	44

model: ACD3+D

SUPPLY AIR SQUARE CEILING DIFFUSER



Three Way Throw

Table 6.3 (cont.) Air flow data

Neck size in mm x mm Area factor In m²	Neck vel in m/sec	1.0	1.5	2.0	2.5	3.0	3.5
	Total CFM	430	644	858	1071	1287	1501
	Total M³/ Sec	0.203	0.304	0.405	0.506	0.608	0.709
4E0 v 4E0	M³/Sec each side of X	0.076	0.114	0.151	0.19	0.228	0.267
450 x 450	M³/Sec in Y side	0.051	0.076	0.103	0.126	0.152	0.175
0.067	P _s in mm of H ₂ O	0.84	1.70	3.16	5.16	7.52	10.51
U.U0 <i>1</i>	Throw in each side of X-(M)	3.1-4.6-7.6	4.6-06.4-9.1	6.6-7.6-10.7	6.7-8.5-12.2	7.6-9.2-13.4	8.2-10.1-14
	Throw in Y side-(M)	3.2-4.9-8.1	4.9-6.8-9.5	7.2-8.7-12.5	7.2-9.2-13.4	8.3-10.2-15.4	9.1-11.3-15.6
	NC	<15	20	30	36	41	44
	Total CFM	585	875	1165	1461	1757	2033
525 x 525	Total M³/ Sec	0.276	0.413	0.55	0.69	0.83	0.96
	M³/Sec each side of X	0.103	0.155	0.206	0.259	0.311	0.36
020 X 020	M³/Sec in Y side	0.07	0.103	0.138	0.172	0.208	0.24
0.005	P _s in mm of H ₂ O	0.84	1.99	3.5	5.46	7.82	9.65
0.095	Throw in each side of X-(M)	3.7-5.2-8.5	5.2-7.6-11	7.0-8.5-12.5	7.9-9.8-14	8.5-11-15.9	9.5-11.6-16.8
	Throw in Y side-(M)	3.9-5.6-9.2	5.6-8.2-11.9	7.6-9.3-13.7	8.5-10.4-5.4	9.4-12.5-17.7	10.6-13.1-17.8
	NC	15	23	32	37	42	45
	Total CFM	762	1143	1524	1906	2287	2668
	Total M³/ Sec	0.36	0.54	0.72	0.9	1.08	1.26
coocoo	M³/Sec each side of X	0.135	0.202	0.27	0.338	0.405	0.472
600 x 600	M³/Sec in Y side	0.09	0.136	0.18	0.224	0.270	0.316
	P _s in mm of H ₂ O	0.84	1.99	3.5	5.46	7.82	9.65
0.133	Throw in each side of X-(M)	4-5.8-10.4	5.8-8-12.2	7.6-10-14.3	8.5-11.3-16.1	9.4-12.5-18	10-13.4-19.5
	Throw in Y side-(M)	4.2-6.2-10.7	6.2-8.3-13.1	8.4-10.9-15.4	9.3-12.1-17.6	10.2-14.0-20	11.2-15.0-21.6
	NC	16	26	33	38	42	45

- Neck velocity is measured in m/sec.
- P_s: Static pressure loss across the diffuser in mm of H₂O.
- Throw (meters) is measured for terminal velocities of 0.75, 0.5 & 0.25 m/sec.
- Noise criteria (NC) based on a room attenuation of 10 dB.

model: ACD4+D





SUPPLY AIR SQUARE CEILING DIFFUSER

Four Way Throw

Table 6.4 Air flow data

Neck size in mm x mm Area factor in m ²	Neck vel in m/sec	1.0	1.5	2.0	2.5	3.0	3.5
	Cfm	47	72	95	119	144	167
150 x 150 0.0093	M³/sec.	0.023	0.034	0.045	0.056	0.068	0.079
	- P _s in mm H ₂ O	0.51	0.76	1.52	2.54	3.56	4.57
0.0093	Throw in m	1.2-1.8-2.4	1.8-2.4-3.1	2.4-3.1-3.7	2.7-3.4-4	3.1-3.7-4.6	3.4-4.3-4.9
	NC	<15	16	21	27	34	39
	Cfm	108	161	214	269	322	375
225 x 225 0.0169	M³/sec.	0.051	0.076	0.101	0.127	0.152	0.177
	- P _s in mm H ₂ O	0.51	1.00	2.03	3.05	4.32	5.84
0.0169	Throw in m	1.2-1.8-2.4	1.8-2.4-3.4	2.4-3.1-4.3	3.1-4.3-5.5	4-5.5-7.3	5.5-6.7-9.1
	NC	<15	17	24	30	36	41
	Cfm	191	286	381	476	572	667
300 x 300	M³/sec.	0.09	0.135	0.18	0.225	0.27	0.315
	- P _s in mm H ₂ O	0.51	1.27	2.29	3.81	5.33	7.37
0.028	Throw in m	2.1-3.1-4.9	3.1-4.3-6.1	4.0-4.9-7.3	4.6-5.8-7.9	4.9-5.8-9.1	5.5-6.7-9.8
	NC	<15	17	26	33	38	43
375 x 375	Cfm	299	447	595	745	893	1042
	M³/sec.	0.141	0.211	0.281	0.352	0.422	0.492
	- P _s in mm H ₂ O	0.76	1.52	2.54	4.06	5.84	8.13
0.043	Throw in m	2.4-3.7-5.5	4.0-5.5-7.6	5.2-6.1-8.8	5.8-7-10.1	6.1-7.6-11.3	6.7-8.2-12.2
	NC	<15	18	28	35	5.84 6.1-7.6-11.3 40	44
	Cfm	430	644	858	1071	1287	1501
450 x 450	M³/sec.	0.203	0.304	0.405	0.506	0.608	0.709
	- P _s in mm H ₂ O	0.76	1.52	2.79	4.57	6.6	9.14
0.065	Throw in m	3.1-4.6-7.6	4.6-6.4-9.1	5.6-7.6-10.7	6.7-8.5-12.2	7.6-9.2-13.4	8.2-10.1-14
	NC	<15	20	30	36	41	44
	Cfm	585	875	1165	1461	1757	2033
525 x 525	M³/sec.	0.276	0.413	0.55	0.69	0.83	0.96
one one and other states	- P _s in mm H ₂ O	0.76	1.78	3.05	4.83	6.86	8.39
0.093	Throw in m	3.7-5.2-8.5	5.2-7.6-11	7.0-8.5-12.5	7.9-9.8-14	8.5-11-15.9	9.5-11.6-16.8
	NC	15	23	32	37	42	45
	Cfm	762	1143	1524	1906	2287	2668
600 x 600	M³/sec.	0.36	0.54	0.72	0.9	1.08	1.26
	- P _s in mm H ₂ O	0.76	1.78	3.05	4.83	6.86	8.39
0.13	Throw in m	4-5.8-10.4	5.8-8-12.2	7.6-10-14.3	8.5-11.3-16.1	9.4-12.5-18	10-13.4-19.5
	NC	16	26	33	38	42	45

- Neck velocity is measured in m/sec.
- P_s: Static pressure loss across the diffuser in mm of H_sO.
- Throw (meters) is measured for terminal velocities of 0.75, 0.5 & 0.25 m/sec.
- Noise criteria (NC) based on a room attenuation of 10 dB.

model: ACD1

RETURN AIR SQUARE CEILING DIFFUSER One Way



Table 6.5 Air flow data

Neck size in mm x mm Neck Area In m²	Neck vel in m/sec	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0
	CFM	49	61	74	85	97	123	146	171	195
150 x 150	M³/sec.	0.023	0.029	0.035	0.04	0.046	0.058	0.069	0.081	0.092
0.023	- P _s in mm H ₂ O	0.65	1.04	1.51	2.06	2.66	4.25	6.12	8.54	11.18
	NC	<15	<15	<15	<15	19	25	30	34	40
	CFM	108	135	163	188	216	271	324	379	432
225 x 225	M³/sec.	0.051	0.064	0.077	0.089	0.102	0.128	0.153	0.179	0.204
0.051	- P _s in mm H ₂ O	0.70	1.14	1.72	2.25	3.04	4.71	6.79	9.65	12.57
	NC	<15	<15	<15	16	21	28	34	40	45
	CFM	193	239	286	335	381	476	572	667	762
300 x 300	M³/sec.	0.09	0.113	0.135	0.158	0.18	0.225	0.27	0.315	0.36
0.09	- P _s in mm H ₂ O	0.81	1.26	1.85	2.51	3.34	5.25	7.61	10.47	13.97
	NC	<15	<15	16	21	25	32	38	43	48
	CFM	298	372	449	521	597	747	896	1046	1194
375 x 375	M³/sec.	0.141	0.176	0.212	0.246	0.282	0.353	0.423	0.494	0.564
0.141	- P _s in mm H ₂ O	0.91	1.42	2.11	2.85	3.79	5.93	8.7	11.85	15.64
	NC	<15	<15	19	25	32	38	43	47	51
	CFM	430	538	646	752	860	1076	1289	1505	1719
450 x 450	M³/sec.	0.203	0.254	0.305	0.355	0.406	0.508	0.609	0.711	0.812
0.203	- P _s in mm H ₂ O	0.99	1.52	2.27	3.09	4.14	6.46	9.24	12.95	17.04
	NC	<15	17	24	31	36	40	45	48	52
	CFM	584	730	877	1023	1168	1461	1753	2045	2337
525 x 525	M³/sec.	0.276	0.345	0.414	0.483	0.552	0.69	0.828	0.966	1.104
0.276	- P _s in mm H ₂ O	1.06	1.66	2.45	3.33	4.44	6.99	10.05	13.78	18.44
8 8	NC	18	25	30	36	40	44	47	51	55
	CFM	762	953	1143	1334	1524	1905	2287	2668	3049
600 x 600	M³/sec.	0.36	0.45	0.54	0.63	0.72	0.9	1.08	1.26	1.44
0.36	- P _s in mm H ₂ O	1.16	1.82	2.64	3.65	4.79	7.54	10.87	15.16	20.12
193750	NC	23	30	36	40	42	46	49	54	58

- Neck velocity is measured in m/sec.
- P_s: Static pressure loss in mm of H₂O.
- Noise criteria (NC) based on a room attenuation of 10 dB.

Two Way

model: ACD2

DIFFUSERS

CEILING

Table 6.6 Air flow data

Neck size in mm x mm Neck Area In m²	Neck vel in m/sec	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0
	CFM	49	61	74	85	97	123	146	171	195
150 x 150	M³/sec.	0.023	0.029	0.035	0.04	0.046	0.058	0.069	0.081	0.092
0.023	- P _s in mm H ₂ O	0.65	1.04	1.49	2.04	2.61	4.17	6.00	8.34	10.77
	NC	<15	<15	<15	<15	19	25	30	34	40
	CFM	108	135	163	188	216	271	324	379	432
225 x 225	M³/sec.	0.051	0.064	0.077	0.089	0.102	0.128	0.153	0.179	0.204
0.051	- P _s in mm H ₂ O	0.7	1.14	1.69	2.22	2.98	4.62	6.67	9.42	12.12
	NC	<15	<15	<15	16	21	28	34	40	45
	CFM	193	239	286	335	381	476	572	667	762
300 x 300	M³/sec.	0.09	0.113	0.135	0.158	0.18	0.225	0.27	0.315	0.36
0.09	- P _s in mm H ₂ O	0.80	1.26	1.83	2.48	3.28	5.15	7.47	10.23	13.46
	NC	<15	<15	16	21	25	32	38	43	48
	CFM	298	372	449	521	597	747	896	1046	1194
375 x 375	M³/sec.	0.141	0.176	0.212	0.246	0.282	0.353	0.423	0.494	0.564
0.141	- P _s in mm H ₂ O	0.90	1.41	2.09	2.82	3.72	5.81	8.54	11.58	15.07
	NC	<15	<15	19	25	32	38	43	47	51
	CFM	430	538	646	752	860	1076	1289	1505	1719
450 x 450	M³/sec.	0.203	0.254	0.305	0.355	0.406	0.508	0.609	0.711	0.812
0.203	- P _s in mm H ₂ O	0.98	1.52	2.25	3.06	4.07	6.33	9.07	12.66	16.42
	NC	<15	17	24	31	36	40	45	48	52
	CFM	584	730	877	102.3	1168	1461	1753	2045	2337
525 x 525	M³/sec.	0.276	0.345	0.414	0.483	0.552	0.69	0.828	0.966	1.104
0.276	- P _s in mm H ₂ O	1.06	1.65	2.43	3.29	4.36	6.86	9.86	13.46	17.77
	NC	18	25	30	36	40	44	47	51	55
	CFM	762	953	1143	1334	1524	1905	2287	2668	3049
600 x 600	M³/sec.	0.36	0.45	0.54	0.63	0.72	0.9	1.08	1.26	1.44
0.36	- P _s in mm H ₂ O	1.16	1.81	2.62	3.62	4.7	7.39	10.67	14.81	19.39
	NC	23	30	36	40	42	46	49	54	58

- Neck velocity is measured in m/sec.
- P_s: Static pressure loss in mm of H₂O.
- Noise criteria (NC) based on a room attenuation of 10 dB.

model: ACD3

RETURN AIR SQUARE CEILING DIFFUSER Three Way



Table 6.7 Air flow data

Neck size in mm x mm Neck Area in m²	Neck vel in m/sec	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0
	CFM	49	61	74	85	97	123	146	171	195
150 x 150	M³/sec.	0.023	0.029	0.035	0.04	0.046	0.058	0.069	0.081	0.092
0.023	- P _s in mm H ₂ O	0.7	1.12	1.48	2.02	2.59	4.14	5.96	8.2	10.67
	NC	<15	<15	<15	<15	19	25	30	34	40
	CFM	108	135	163	188	216	271	324	379	432
225 x 225	M³/sec.	0.051	0.064	0.077	0.089	0.102	0.128	0.156	0.179	0.204
0.051	- P _s in mm H ₂ O	0.76	1.23	1.68	2.20	2.96	4.58	6.62	9.27	12.00
	NC	<15	<15	<15	16	21	28	34	40	45
	CFM	193	239	286	335	381	476	572	667	762
300 x 300	M³/sec.	0.09	0.113	0.135	0.158	0.18	0.225	0.27	0.315	0.36
0.09	- P _s in mm H ₂ O	0.87	1.36	1.82	2.46	3.25	5.11	7.41	10.06	13.34
	NC	<15	<15	16	21	25	32	38	43	48
	CFM	298	372	449	521	597	747	896	1046	1194
375 x 375	M³/sec.	0.141	0.176	0.212	0.246	0.282	0.353	0.423	0.494	0.564
0.141	- P _s in mm H ₂ O	0.98	1.53	2.07	2.79	3.69	5.77	8.48	11.38	14.93
	NC	<15	<15	19	25	32	38	43	47	51
	CFM	430	538	646	752	860	1076	1289	1505	1719
450 x 450	M³/sec.	0.203	0.254	0.305	0.355	0.406	0.508	0.609	0.711	0.812
0.203	- P _s in mm H ₂ O	1.07	1.63	2.22	3.03	4.04	6.29	9.01	12.45	16.26
	NC	<15	17	24	31	36	40	45	48	52
	CFM	584	730	877	102.3	1168	1461	1753	2045	2337
525 x 525	M³/sec.	0.276	0.345	0.414	0.483	0.552	0.69	0.828	0.966	1.104
0.276	- P _s in mm H ₂ O	1.14	1.79	2.41	3.26	4.33	6.81	9.79	13.24	17.59
	NC	18	25	30	36	40	44	47	51	55
	CFM	762	953	1143	1334	1524	1905	2287	2668	3049
600 x 600	M³/sec.	0.36	0.45	0.54	0.63	0.72	0.9	1.08	1.26	1.44
0.36	- P _s in mm H ₂ O	1.25	1.97	2.59	3.58	4.67	7.34	10.59	14.56	19.2
	NC	23	30	36	40	42	46	49	54	58

- Neck velocity is measured in m/sec.
- P_s: Static pressure loss in mm of H₂O.
- Noise criteria (NC) based on a room attenuation of 10 dB.



model: ACD4

CEILING

DIFFUSERS

Four Way

Table 6.8 Air flow data

Neck size in mm x mm Neck Area in m²	Neck vel in m/sec	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0
	CFM	49	61	74	85	97	123	146	171	195
150 x 150	M³/sec.	0.023	0.029	0.035	0.04	0.046	0.058	0.069	0.081	0.092
0.023	- P _s in mm H ₂ O	0.64	1.02	1.45	1.98	2.51	4.01	5.72	7.9	10.16
	NC	<15	<15	<15	<15	19	25	30	34	40
	CFM	108	135	163	188	216	271	324	379	432
225 x 225	M³/sec.	0.051	0.064	0.077	0.089	0.102	0.128	0.153	0.179	0.204
0.051	- P _s in mm H ₂ O	0.69	1.12	1.65	2.16	2.87	4.44	6.35	8.89	11.43
	NC	<15	<15	<15	16	21	28	34	40	45
	CFM	193	239	286	335	381	476	572	667	762
300 x 300	M³/sec.	0.09	0.113	0.135	0.158	0.18	0.225	0.27	0.315	0.36
0.09	- P _s in mm H ₂ O	0.79	1.24	1.78	2.41	3.15	4.95	7.11	9.65	12.7
	NC	<15	<15	16	21	25	32	38	43	48
	CFM	298	372	449	521	597	747	896	1046	1194
375 x 375	M³/sec.	0.141	0.176	0.212	0.246	0.282	0.353	0.423	0.494	0.564
0.141	- P _s in mm H ₂ O	0.89	1.39	2.03	2.74	3.58	5.59	8.13	10.9	14.22
	NC	<15	<15	19	25	32	38	43	47	51
	CFM	430	538	646	752	860	1076	1289	1505	1719
450 x 450	M³/sec.	0.203	0.254	0.305	0.355	0.406	0.508	0.609	0.711	0.812
0.203	- P _s in mm H ₂ O	0.97	1.49	2.18	2.97	3.91	6.09	8.64	11.94	15.49
	NC	<15	17	24	31	36	40	45	48	52
	CFM	584	730	877	1023	1168	1461	1753	2045	2337
525 x 525	M³/sec.	0.276	0.345	0.414	0.483	0.552	0.69	0.828	0.966	1.104
0.276	- P _s in mm H ₂ O	1.04	1.63	2.36	3.2	4.19	6.6	9.39	12.7	16.76
	NC	18	25	30	36	40	44	47	51	55
	CFM	762	953	1143	1334	1524	1905	2287	2668	3049
600 x 600	M³/sec.	0.36	0.45	0.54	0.63	0.72	0.9	1.08	1.26	1.44
0.36	- P _s in mm H ₂ O	1.14	1.78	2.54	3.51	4.52	7.11	10.16	13.9	18.29
	NC	23	30	36	40	42	46	49	54	58

- Neck velocity is measured in m/sec.
- P_s: Static pressure loss in mm of H₂O.
- Noise criteria (NC) based on a room attenuation of 10 dB.



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