



CEILING DIFFUSERS



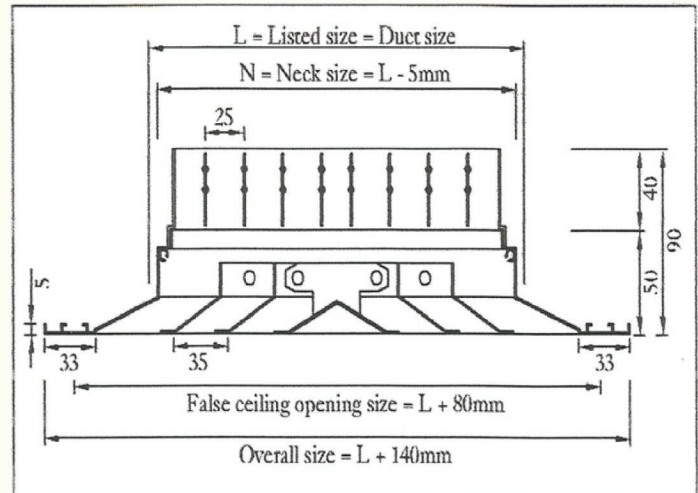
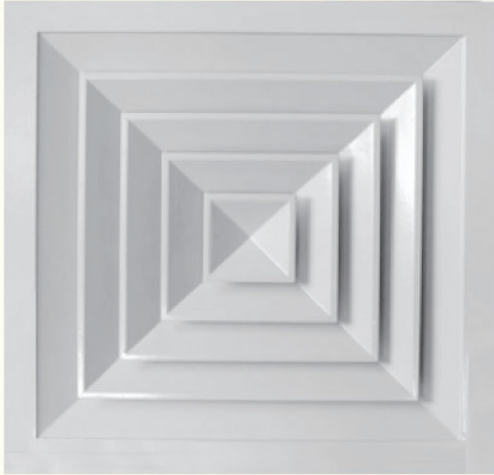
General:

The Airmax central air conditioning diffusers are designed both supply air purpose HVAC system, which handles a wide range of horizontal air flows to the requirements of design engineers. These are specially designed which also giving pleasing appearance to suit architectural needs to flush outlets and concealed fixing methods.



Supply air square ceiling diffuser

Model: CD -4+D-AD



Description:

- The frame and blades are of high quality extruded aluminum profiled construction with the advantages of corrosion resistance and rigidity.
- Louvered type core is fixed to the frame with aluminum 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 aluminum rivets. Optional spring clips fixing available.
- Opposed blades damper is screw operated from the face opening of the diffuser after removing the internal core. Lever operated damper as option.
- Discharge air horizontal in one way, either X or Y directions are per pattern arrangement.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Suitable for flush mounting in lay in type ceiling.
- Pressed cores and frames gives high performance than the extruded profiles frames avoiding the joints at the corners.

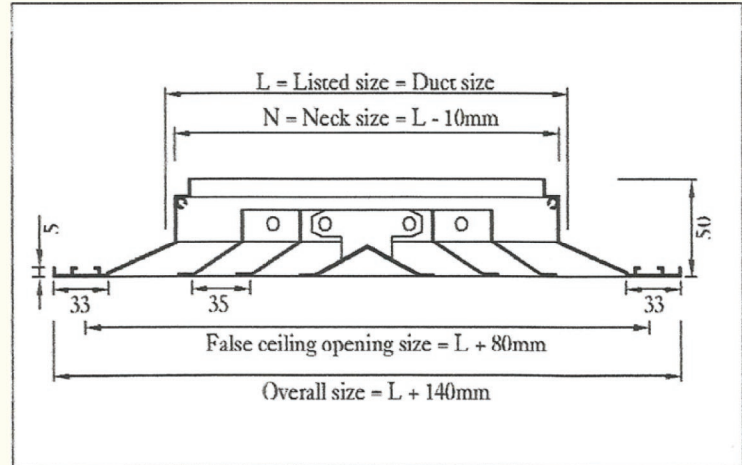
Construction:

- Extruded aluminum profiles for frame and cores with 1.2mm thick and 33mm flange width
- Louvered type cores as single unit is fixed to the outer frame by aluminum pins loaded with stainless steel springs.
- Damper frame and core: High quality extruded aluminum profile with natural aluminum finish.
- Black matt finish as option.
- Pressed Frame: High quality aluminum sheets are pressed to the different sizes of frame moulds.
- Pressed frames with fixing holes for cores and ducts



Return air square ceiling diffuser

Model: CD -4-ADR



Description:

- The frame and blades are of high quality extruded aluminum profiled construction with the advantages of corrosion resistance and rigidity.
- Louvered type core is fixed to the frame with aluminum pins loaded with steel springs.
- Core can be easily removable and interchangeable to allow for maximum flexibility in installation.
- Discharge air horizontal in one way, either X or Y directions are per pattern arrangement.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Suitable for flush mounting in lay in type ceiling.
- Pressed cores and frames gives high performance than the extruded profiles frames avoiding the joints at the corners.

Construction:

- Extruded aluminum profiles for frame and cores with 1.2mm thick and 33mm flange width
- Louvered type cores as single unit is fixed to the outer frame by aluminum pins loaded with stainless steel springs.
- Damper frame and core: High quality extruded aluminum profile with natural aluminum finish.
- Black matt finish as option.
- Pressed Frame: High quality aluminum sheets are pressed to the different sizes of frame moulds.
- Pressed frames with fixing holes for cores and ducts



Standard Types

Standard Finishes

- Natural anodized aluminum finish
- Powder coated color finish, other colors as option and Dampers can be supplied in black color as optional.
- Flexibility of finish is available as option.

Standard Selection

The following table gives the complete parameters of the diffusers, which is to be considered while selection of the same during HVAC projects design and execution.

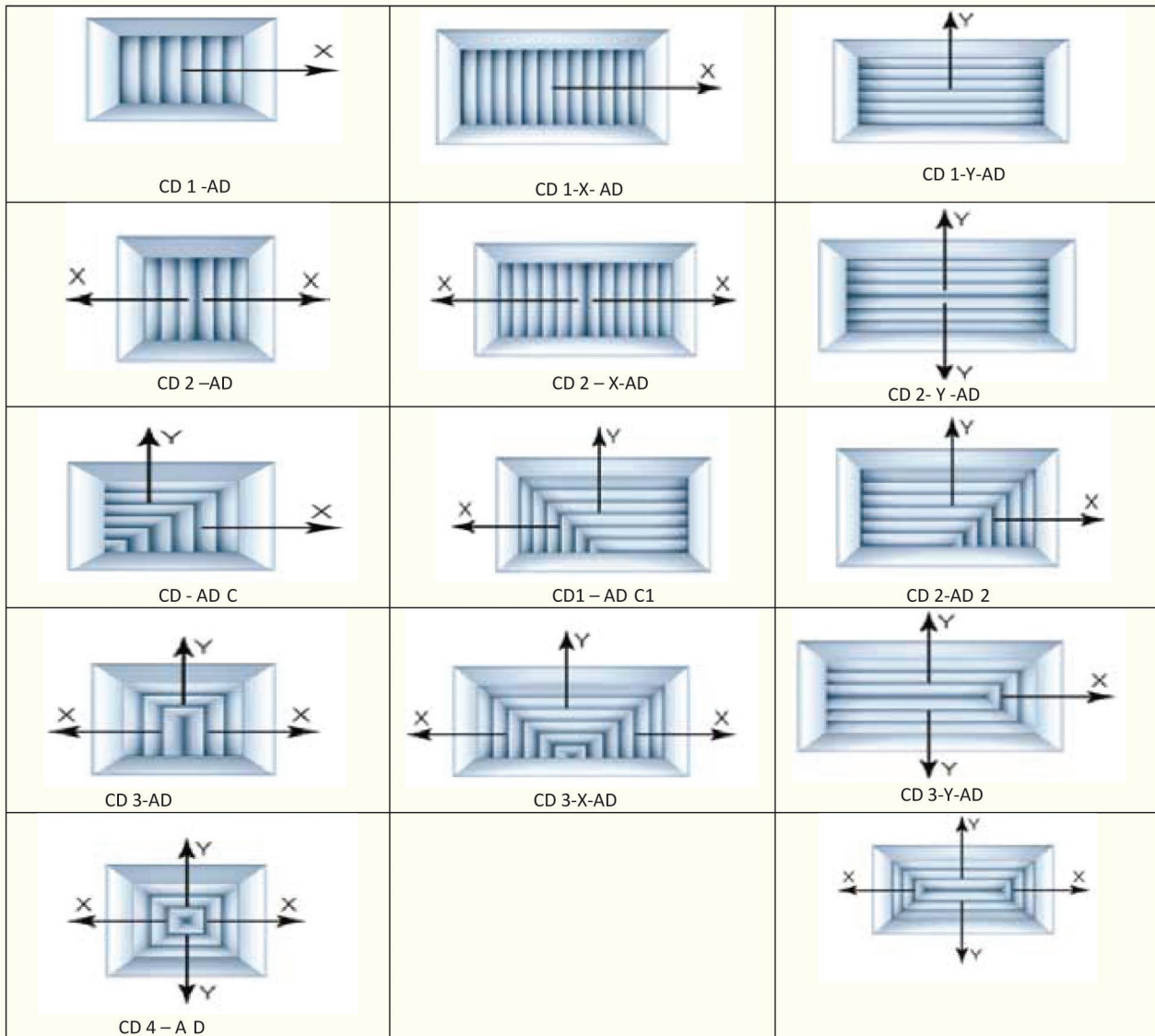
Size (mm)	CFM Range
150 x 150	100 - 200
225 x 225	200 - 400
300 x 300	300 - 600
375 x 375	400 - 900
450 x 450	500 - 1200
525 x 525	600 - 1500

Optional Rectangular D diffuser: Diffusers are rectangular sizes as per choice. Construction will be same as square diffusers.





Air pattern



Standard Sizes

- Available in square and rectangular sizes.
- 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	150 x 150	225 x 225	300 x 300	375 x 375	450 x 450	525 x 525
False ceiling opening size	230 x 230	305 x 305	380 x 380	455 x 455	530 x 530	605 x 605



Air flow data

Model: CD 1+D -AD

SUPPLY AIR SQUARE CEILING DIFFUSER / ONE WAY THROW

Neck size in mm x mm	Neck vel in m/sec	1.0	1.5	2.0	2.5	3.0	3.5
150 x 150	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	47 0.023 0.69 1.3-2-2.7 <15	72 0.034 1.05 2-2.8-3.6 16	95 0.045 2.11 2.8-3.7-4.4 21	119 0.056 3.54 3.3-4.2-4.9 27	144 0.068 4.98 4-4.7-5.9 34	167 0.079 6.44 4.4-5.5-6.2 39
225 x 225	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	108 0.051 0.69 1.3-2-2.7 <15	161 0.076 1.37 2.0-2.8-3.9 17	214 0.101 2.8 2.9-3.7-5.2 24	269 0.127 4.26 3.8-5.3-6.8 30	322 0.152 6.05 5.1-7-9.3 36	375 0.177 8.23 7-8.6-11.6 41
300 x 300	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	191 0.09 0.69 2.4-3.5-5.5 <15	286 0.135 1.75 3.6-5.0-7.1 17	381 0.18 3.17 4.8-5.9-8.8 26	476 0.225 5.31 5.7-7.2-9.8 33	572 0.27 7.46 6.3-7.4-11 38	667 0.31 10.4 7-8.6-12.5 43
375 x 375	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	299 0.141 1.03 2.7-4.1-6.2 <15	447 0.211 2.09 4.6-6.4-8.8 18	595 0.281 3.52 6.2-7.3-10.6 28	745 0.352 5.66 7.2-8.7-12.5 35	893 0.422 8.18 7.8-9-14.5 40	1042 0.492 11.46 8.6-10.5-15.6 44
450 x 450	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	430 0.203 1.03 3.5-5.2-8.5 <15	644 0.304 2.09 5.3-7.4-10.6 20	858 0.405 3.86 7.9-9.1-12.8 30	1071 0.506 6.38 8.3-10.5-15 36	1287 0.608 9.24 9.7-11.8-17 41	1501 0.709 11.46 10.5-13-18 44
525 x 525	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	585 0.276 1.03 4.1-5.8-9.5 15	875 0.413 2.45 6-8.8-12.6 23	1165 0.55 4.22 8.4-10.2-15 32	1461 0.69 6.74 9.8-12-17.4 37	1757 0.83 9.6 10.9-14-20 42	2033 0.96 11.83 12-14.8-21.5 45
600 x 600	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	762 0.36 1.03 4.5-6.5-11.6 16	1143 0.54 2.45 6.7-9.1-14 26	1524 0.72 4.22 9.1-12-17.1 33	1906 0.9 6.74 10.5-14-20 38	2287 1.08 9.6 12-16-23 42	2668 1.26 11.83 12.8-17.2-24 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) is based on room attenuation of 10 dB.



Air flow data

Model: CD 2+D-AD

SUPPLY AIR SQUARE CEILING DIFFUSER / TWO WAY THROW

Neck size in mm x mm	Neck vel in m/sec	1.0	1.5	2.0	2.5	3.0	3.5
150 x 150	Cfm M ³ /sec. Ps in mm H ₂ O Throw in m NC	47 0.023 0.64 1.3-2-2.7 <15	72 0.034 0.87 2-2.8-3.6 16	95 0.045 2.02 2.8-3.7-4.4 21	119 0.056 3.41 3.2-4-4.8 27	144 0.068 4.83 3.8-4.5-5.6 34	167 0.079 6.1 4.1-5.2-6 39
225 x 225	Cfm M ³ /sec. Ps in mm H ₂ O Throw in m NC	108 0.051 0.64 1.3-2-2.7 <15	161 0.076 1.29 2-2.8-3.9 17	214 0.101 2.7 2.8-3.7-5.1 24	269 0.127 4.1 3.7-5.2-6.6 30	322 0.152 5.86 4.8-6.7-9 36	375 0.177 7.77 6.7-8.2-11 41
300 x 300	Cfm M ³ /sec. Ps in mm H ₂ O Throw in m NC	191 0.09 0.64 2.4-3.5-5.5 <15	286 0.135 1.64 3.6-4.9-7 17	381 0.18 3.05 4.7-5.8-8.6 26	476 0.225 5.1 5.5-6.9-9.5 33	572 0.27 7.23 5.9-7.1-11 38	667 0.315 9.81 6.7-8.4-12 43
375 x 375	Cfm M ³ /sec. Ps in mm H ₂ O Throw in m NC	299 0.141 0.96 2.7-4.1-6.2 <15	447 0.211 1.96 4.6-6.3-8.7 18	595 0.281 3.71 6.1-7.2-10.4 28	745 0.352 5.5 6.9-8.4-12.1 35	893 0.422 7.92 7.4-9.3-14 40	1042 0.492 10.81 8.1-10-14.9 44
450 x 450	Cfm M ³ /sec. Ps in mm H ₂ O Throw in m NC	430 0.203 0.96 3.4-5.1-8.5 <15	644 0.304 1.96 5.3-7.4-10 20	858 0.405 4.06 8.3-10-15 30	1071 0.506 6.68 8-10.2-14.6 36	1287 0.608 8.9 9.3-11-16.3 41	1501 0.709 12.16 10-12.3-17 44
525 x 525	Cfm M ³ /sec. Ps in mm H ₂ O Throw in m NC	585 0.276 0.96 4.1-5.8-9.5 15	875 0.413 2.29 6-8.7-12.6 23	1165 0.55 4.06 8.3-10-15 32	1461 0.69 6.49 9.5-11.8-17 37	1757 0.83 9.31 10.4-13.4-19 42	2033 0.96 11.1 11.6-14.1-20 45
600 x 600	Cfm M ³ /sec. Ps in mm H ₂ O Throw in m NC	762 0.36 0.96 4.5-6.5-11 16	1143 0.54 2.29 6.6-9-14 26	1524 0.72 4.06 9-11.8-16.9 33	1906 0.9 6.49 10.2-13.6-19 38	2287 1.08 9.31 11.4-15.2-22 42	2668 1.26 11.1 12.2-16-23 45

- Neck velocity is measured in m/sec.
- Ps: 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) is based on room attenuation of 10 dB.



Air flow data

Model: CD 3+D-AD

Supply air square ceiling diffuser / Three way throw

Neck size in mm x mm	Neck vel in m/sec	1.0	1.5	2.0	2.5	3.0	3.5
150 x 150 0.0095	Total CFM Total M ³ /Sec M ³ /Sec each side of X M ³ /Sec in Y side Ps in mm of H ₂ O Throw in each side of X-(M) Throw in Y side-(M) NC	47 0.023 0.008 0.007 0.56 1.2-1.8-2.4 1.2-1.8-2.5 <15	72 0.034 0.013 0.008 0.85 1.8-2.4-3.1 1.8-2.6-3.4 16	95 0.045 0.017 0.011 1.72 2.4-3.1-3.7 2.6-3.4-4.0 21	119 0.056 0.021 0.014 2.87 2.7-3.4-4 3.0-3.7-4.4 27	144 0.068 0.025 0.018 4.06 3.1-3.7-4.6 3.5-4.1-5.0 34	167 0.079 0.03 0.019 5.29 3.4-4.3-4.9 3.7-4.7-5.4 39
225 x 225 0.0172	Total CFM Total M ³ /Sec M ³ /Sec each side of X M ³ /Sec in Y side Ps in mm of H ₂ O Throw in each side of X-(M) Throw in Y side-(M) NC	108 0.051 0.019 0.013 0.56 1.2-1.8-2.4 1.2-1.8-2.5 <15	161 0.076 0.028 0.020 1.12 1.8-2.4-3.4 1.8-2.6-3.7 17	214 0.101 0.038 0.025 2.29 2.4-3.1-4.3 2.6-3.4-4.7 24	269 0.127 0.048 0.031 3.45 3.1-4.3-5.5 3.4-4.8-6.1 30	322 0.152 0.057 0.038 4.92 4.5-5.7-3 44-6.1-8.2 36	375 0.177 0.066 6.72 5.84 5.5-6.7-9.1 6.1-7.5-10.1 41
300 x 300 0.028	Total CFM Total M ³ /Sec M ³ /Sec each side of X M ³ /Sec in Y side Ps in mm of H ₂ O Throw in each side of X-(M) Throw in Y side-(M) NC	191 0.09 0.033 0.024 0.56 2.1-3.1-4.9 2.1-3.3-5.2 <15	286 0.135 0.051 0.033 1.45 3.1-4.3-6.1 3.4-4.6-6.5 17	381 0.18 0.068 0.044 2.59 4.0-4.9-7.3 4.3-5.4-8.0 26	476 0.225 0.084 0.057 4.36 4.6-5.8-7.9 5.1-6.3-8.5 33	572 0.27 0.101 0.068 6.08 4.9-5.8-9.1 5.4-6.6-10.1 38	667 0.315 0.118 0.079 8.48 5.5-6.7-9.8 6.2-7.7-10.6 43
375 x 375 0.044	Total CFM Total M ³ /Sec M ³ /Sec each side of X M ³ /Sec in Y side Ps in mm of H ₂ O Throw in each side of X-(M) Throw in Y side-(M) NC	299 0.141 0.053 0.035 0.84 2.4-3.7-5.5 2.5-3.9-5.8 <15	447 0.211 0.079 0.053 1.70 4.0-5.5-7.6 4.3-5.9-8.2 18	595 0.281 0.105 0.071 2.87 5.2-6.1-8.8 5.6-6.7-9.4 28	745 0.352 0.132 0.088 4.59 5.8-7-10.1 6.4-7.6-10.9 35	893 0.422 0.158 0.106 6.66 6.1-7.6-11.3 6.7-8.3-12.5 40	1042 0.492 0.185 0.122 9.35 6.7-8.2-12.2 7.4-9.1-13.4 44
450 x 450 0.067	Total CFM Total M ³ /Sec M ³ /Sec each side of X M ³ /Sec in Y side Ps in mm of H ₂ O Throw in each side of X-(M) Throw in Y side-(M) NC	430 0.203 0.076 0.051 0.84 3.1-4.6-7.6 3.2-4.9-8.1 <15	644 0.304 0.114 0.076 1.70 4.6-06.4-9.1 4.9-6.8-9.5 20	858 0.405 0.151 0.103 3.16 6.6-7.6-10.7 7.2-8.7-12.5 30	1071 0.506 0.19 0.126 5.16 6.7-8.5-12.2 7.2-9.2-13.4 36	1287 0.608 0.228 0.152 7.52 7.6-9.2-13.4 8.3-10.2-15.4 41	1501 0.709 0.267 0.175 10.51 8.2-10.1-14 9.1-11.3-15.6 44
525 x 525 0.095	Total CFM Total M ³ /Sec M ³ /Sec each side of X M ³ /Sec in Y side Ps in mm of H ₂ O Throw in each side of X-(M) Throw in Y side-(M) NC	585 0.276 0.103 0.07 0.84 3.7-5.2-8.5 3.9-5.6-9.2 15	875 0.413 0.155 0.103 1.99 5.2-7.6-11 5.6-8.2-11.9 23	1165 0.55 0.206 0.138 3.5 7.0-8.5-12.5 7.6-9.3-13.7 32	1461 0.69 0.259 0.172 5.46 7.9-9.8-14 8.5-10.4-15.4 37	1757 0.83 0.311 0.208 7.82 8.5-11-15.9 9.4-12.5-17.7 42	2033 0.96 0.36 0.24 9.65 9.5-11.6-16.8 10.6-13.1-17.8 45
600 x 600 0.133	Total CFM Total M ³ /Sec M ³ /Sec each side of X M ³ /Sec in Y side Ps in mm of H ₂ O Throw in each side of X-(M) Throw in Y side-(M) NC	762 0.36 0.135 0.09 0.84 4.5-8-10.4 4.2-6.2-10.7 16	1143 0.54 0.202 0.136 1.99 5.8-8-12.2 6.2-8.3-13.1 26	1524 0.72 0.27 0.18 3.5 7.6-10-14.3 8.4-10.9-15.4 33	1906 0.9 0.338 0.224 5.46 8.5-11.3-16.1 9.3-12.1-17.6 38	2287 1.08 0.405 0.270 7.82 9.4-12.5-18 10.2-14.0-20 42	2668 1.26 0.472 0.316 9.65 10-13.4-19.5 11.2-15.0-21.6 45

- Neck velocity is measured in m/sec.
- Ps: 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) is based on room attenuation of 10 dB.



Air flow data

Model: CD 4+D-AD

Supply air square ceiling diffuser / Four way throw

Neck size in mm x mm	Neck vel in m/sec	1.0	1.5	2.0	2.5	3.0	3.5
150 x 150	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	47 0.023 0.51 1.2-1.8-2.4 <15	72 0.034 0.76 1.8-2.4-3.1 16	95 0.045 1.52 2.4-3.1-3.7 21	119 0.056 2.54 2.7-3.4-4 27	144 0.068 3.56 3.1-3.7-4.6 34	167 0.079 4.57 3.4-4.3-4.9 39
225 x 225	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	108 0.051 0.51 1.2-1.8-2.4 <15	161 0.076 1.00 1.8-2.4-3.4 17	214 0.101 2.03 2.4-3.1-4.3 24	269 0.127 3.05 3.1-4.3-5.5 30	322 0.152 4.32 4-5.5-7.3 36	375 0.177 5.84 5.5-6.7-9.1 41
300 x 300	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	191 0.09 0.51 2.1-3.1-4.9 <15	286 0.135 1.27 3.1-4.3-6.1 17	381 0.18 2.29 4.0-4.9-7.3 26	476 0.225 3.81 4.6-5.8-7.9 33	572 0.27 5.33 4.9-5.8-9.1 38	667 0.315 7.37 5.5-6.7-9.8 43
375 x 375	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	299 0.141 0.76 2.4-3.7-5.5 <15	447 0.211 1.52 4.0-5.5-7.6 18	595 0.281 2.54 5.2-6.1-8.8 28	745 0.352 4.06 5.8-7-10.1 35	893 0.422 5.84 6.1-7.6-11.3 40	1042 0.492 8.13 6.7-8.2-12.2 44
450 x 450	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	430 0.203 0.76 3.1-4.6-7.6 <15	644 0.304 1.52 4.6-6.4-9.1 20	858 0.405 2.79 5.6-7.6-10.7 30	1071 0.506 4.57 6.7-8.5-12.2 36	1287 0.608 6.6 7.6-9.2-13.4 41	1501 0.709 9.14 8.2-10.1-14 44
525 x 525	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	585 0.276 0.76 3.7-5.2-8.5 15	875 0.413 1.78 5.2-7.6-11 23	1165 0.55 3.05 7.0-8.5-12.5 32	1461 0.69 4.83 7.9-9.8-14 37	1757 0.83 6.86 8.5-11-15.9 42	2033 0.96 8.39 9.5-11.6-16.8 45
600 x 600	Cfm M ³ /sec. P _s in mm H ₂ O Throw in m NC	762 0.36 0.76 4-5.8-10.4 16	1143 0.54 1.78 5.8-8-12.2 26	1524 0.72 3.05 7.6-10-14.3 33	1906 0.9 4.83 8.5-11.3-16.1 38	2287 1.08 6.86 9.4-12.5-18 42	2668 1.26 8.39 10-13.4-19.5 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) is based on room attenuation of 10 dB.



Air flow data

Model: CD 1-AD

Return air square ceiling diffuser / One way throw

Neck size in mm x mm Neck Area In m ²	Neck vel in m/sec	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0
150 x 150 0.023	CFM	49	61	74	85	97	123	146	171	195
	M ³ /sec.	0.023	0.029	0.035	0.04	0.046	0.058	0.069	0.081	0.092
	- 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
225 x 225 0.051	CFM	108	135	163	188	216	271	324	379	432
	M ³ /sec.	0.051	0.064	0.077	0.089	0.102	0.128	0.153	0.179	0.204
	- 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
300 x 300 0.09	CFM	193	239	286	335	381	476	572	667	762
	M ³ /sec.	0.09	0.113	0.135	0.158	0.18	0.225	0.27	0.315	0.36
	- 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
375 x 375 0.141	CFM	298	372	449	521	597	747	896	1046	1194
	M ³ /sec.	0.141	0.176	0.212	0.246	0.282	0.353	0.423	0.494	0.564
	- 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
450 x 450 0.203	CFM	430	538	646	752	860	1076	1289	1505	1719
	M ³ /sec.	0.203	0.254	0.305	0.355	0.406	0.508	0.609	0.711	0.812
	- 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
525 x 525 0.276	CFM	584	730	877	1023	1168	1461	1753	2045	2337
	M ³ /sec.	0.276	0.345	0.414	0.483	0.552	0.69	0.828	0.966	1.104
	- 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
	NC	18	25	30	36	40	44	47	51	55
600 x 600 0.36	CFM	762	953	1143	1334	1524	1905	2287	2668	3049
	M ³ /sec.	0.36	0.45	0.54	0.63	0.72	0.9	1.08	1.26	1.44
	- 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
	NC	23	30	36	40	42	46	49	54	58

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



Air flow data

Model: CD 2-AD

Return air square ceiling diffuser / Two way throw

Neck size in mm x mm Neck Area In m ²	Neck vel in m/sec	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0
150 x 150 0.023	CFM	49	61	74	85	97	123	146	171	195
	M ³ /sec.	0.023	0.029	0.035	0.04	0.046	0.058	0.069	0.081	0.092
	- 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
225 x 225 0.051	CFM	108	135	163	188	216	271	324	379	432
	M ³ /sec.	0.051	0.064	0.077	0.089	0.102	0.128	0.153	0.179	0.204
	- 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
300 x 300 0.09	CFM	193	239	286	335	381	476	572	667	762
	M ³ /sec.	0.09	0.113	0.135	0.158	0.18	0.225	0.27	0.315	0.36
	- 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
375 x 375 0.141	CFM	298	372	449	521	597	747	896	1046	1194
	M ³ /sec.	0.141	0.176	0.212	0.246	0.282	0.353	0.423	0.494	0.564
	- 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
450 x 450 0.203	CFM	430	538	646	752	860	1076	1289	1505	1719
	M ³ /sec.	0.203	0.254	0.305	0.355	0.406	0.508	0.609	0.711	0.812
	- 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
525 x 525 0.276	CFM	584	730	877	1023	1168	1461	1753	2045	2337
	M ³ /sec.	0.276	0.345	0.414	0.483	0.552	0.69	0.828	0.966	1.104
	- 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
600 x 600 0.36	CFM	762	953	1143	1334	1524	1905	2287	2668	3049
	M ³ /sec.	0.36	0.45	0.54	0.63	0.72	0.9	1.08	1.26	1.44
	- 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 across the diffuser in mm of H₂O.
- Noise criteria (NC) is based on room attenuation of 10 dB.



Air flow data

Model: CD 3-AD

Return air square ceiling diffuser / Three way throw

Neck size in mm x mm Neck Area In m ²	Neck vel in m/sec	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0
150 x 150 0.023	CFM	49	61	74	85	97	123	146	171	195
	M ³ /sec.	0.023	0.029	0.035	0.04	0.046	0.058	0.069	0.081	0.092
	- 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
225 x 225 0.051	CFM	108	135	163	188	216	271	324	379	432
	M ³ /sec.	0.051	0.064	0.077	0.089	0.102	0.128	0.156	0.179	0.204
	- 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
300 x 300 0.09	CFM	193	239	286	335	381	476	572	667	762
	M ³ /sec.	0.09	0.113	0.135	0.158	0.18	0.225	0.27	0.315	0.36
	- 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
375 x 375 0.141	CFM	298	372	449	521	597	747	896	1046	1194
	M ³ /sec.	0.141	0.176	0.212	0.246	0.282	0.353	0.423	0.494	0.564
	- 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
450 x 450 0.203	CFM	430	538	646	752	860	1076	1289	1505	1719
	M ³ /sec.	0.203	0.254	0.305	0.355	0.406	0.508	0.609	0.711	0.812
	- 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
525 x 525 0.276	CFM	584	730	877	1023	1168	1461	1753	2045	2337
	M ³ /sec.	0.276	0.345	0.414	0.483	0.552	0.69	0.828	0.966	1.104
	- 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
600 x 600 0.36	CFM	762	953	1143	1334	1524	1905	2287	2668	3049
	M ³ /sec.	0.36	0.45	0.54	0.63	0.72	0.9	1.08	1.26	1.44
	- 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 across the diffuser in mm of H₂O.
- Noise criteria (NC) is based on room attenuation of 10 dB.



Air flow data

Model: CD 4-AD

Return air square ceiling diffuser / Four way throw

Neck size in mm x mm Neck Area In m ²	Neck vel in m/sec	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0
150 x 150 0.023	CFM	49	61	74	85	97	123	146	171	195
	M ³ /sec.	0.023	0.029	0.035	0.04	0.046	0.058	0.069	0.081	0.092
	- 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
225 x 225 0.051	CFM	108	135	163	188	216	271	324	379	432
	M ³ /sec.	0.051	0.064	0.077	0.089	0.102	0.128	0.153	0.179	0.204
	- 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
300 x 300 0.09	CFM	193	239	286	335	381	476	572	667	762
	M ³ /sec.	0.09	0.113	0.135	0.158	0.18	0.225	0.27	0.315	0.36
	- 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
375 x 375 0.141	CFM	298	372	449	521	597	747	896	1046	1194
	M ³ /sec.	0.141	0.176	0.212	0.246	0.282	0.353	0.423	0.494	0.564
	- 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
450 x 450 0.203	CFM	430	538	646	752	860	1076	1289	1505	1719
	M ³ /sec.	0.203	0.254	0.305	0.355	0.406	0.508	0.609	0.711	0.812
	- 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
525 x 525 0.276	CFM	584	730	877	1023	1168	1461	1753	2045	2337
	M ³ /sec.	0.276	0.345	0.414	0.483	0.552	0.69	0.828	0.966	1.104
	- 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
600 x 600 0.36	CFM	762	953	1143	1334	1524	1905	2287	2668	3049
	M ³ /sec.	0.36	0.45	0.54	0.63	0.72	0.9	1.08	1.26	1.44
	- 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 across the diffuser in mm of H₂O.
- Noise criteria (NC) is based on room attenuation of 10 dB.