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CEILING DIFFUSER LOUVRED FACE Model AGI-SD



APPLICATIONS

Louvre faced ceiling diffusers are the industry standard supply air grille.

Designed to deliver large volumes of air in a stable horizontal air pattern that is close to the ceiling, and draft free.

In lay-in applications the diffuser is placed into a T-bar ceiling grid without any need to alter the T-bar construction, it simply replaces a tile.

This extremely versatile frame style is also suitable for surface mounting.

FEATURES

Manufactured from aluminium extrusion that is lightweight and resistant to rust and corrosion.

The removable core makes them easy to install, clean & access dampers located behind diffusers.

Triangular blanking plates can be fitted behind the louvre to obtain a varying distribution pattern whilst maintaining a uniform face appearance.

Standard finish powder coat satin white

1, 2, 3 or 4 way blow in a wide selection of square and rectangular neck sizes available see page 18

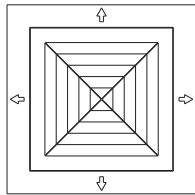
See engineering performance data and a quick selection chart on pages 19-20.

STOCK SIZES (mm)

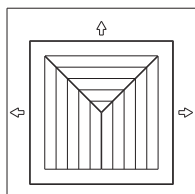
Actual Neck/Face	Nominal Neck/Face	Cut out size
135 / 295	150 / 300	235 x 235
210 / 370	225 / 375	310 x 310
285 / 445	300 / 450	385 x 385
360 / 520	375 / 525	460 x 460
435 / 595	450 / 600	535 x 535

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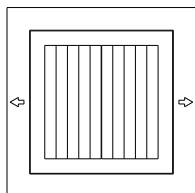
SQUARE DIFFUSERS



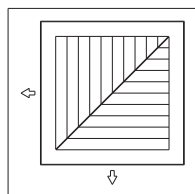
4 way (S4W)



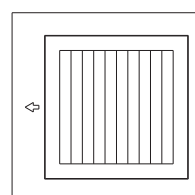
3 way (S3W)



2 way (S2W)

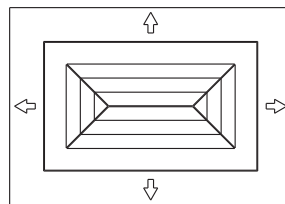


2-way corner (S2WC)

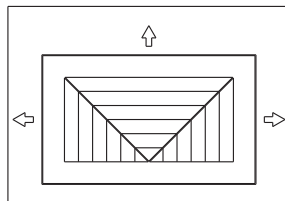


1 way (S1W)

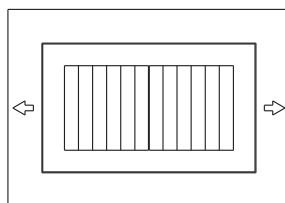
RECTANGULAR DIFFUSERS



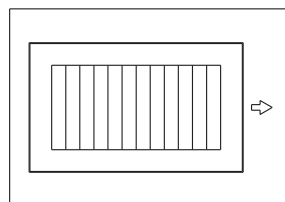
4 way (R4W)



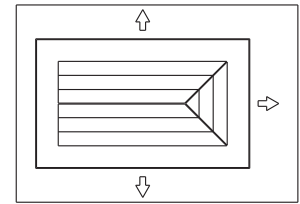
3-way short blade (R3WS)



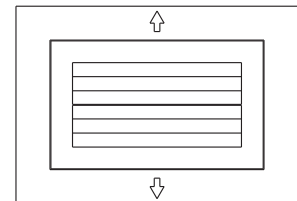
2 way opposite short blade (R2WS)



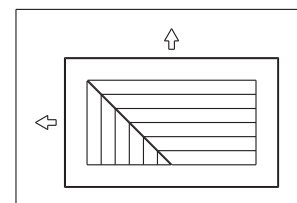
1 way (R1WS)



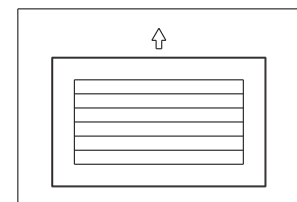
3-way long blade (R3WL)



2 way opposite long blade (R2WL)



Two-way corner (R2WC)



1 way (R1WL)

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Air Flow (L/s)	Static Pressure (Pa)	Throw (m) to terminal Velocity		Core (m/s)	Noise Rating (NR)
		0.5 m/s	0.25 m/s		
150/300 4-Way ADCD					
51	21	1.7	2.6	0.9	11
76	39	2.2	3.1	1.4	20
109	73	3.3	4.6	2.0	29
154	135	3.7	5.3	2.8	40
189	175	4.5	*	3.5	45
215	246	5.2	*	4.0	49
240	305	*	*	4.4	53
262	370	*	*	4.9	56
225/375 4-Way ADCD					
75	8	1.8	2.5	0.9	10
95	14	2.2	3.1	1.1	14
135	27	2.9	4.1	1.6	22
168	38	3.5	4.9	2.0	29
194	52	3.8	5.2	2.3	35
236	70	4.5	5.7	2.8	39
261	90	5.0	*	3.1	43
307	112	*	*	3.6	48
300/450 4-Way ADCD					
75	5	1.3	2.1	0.6	8
108	7	1.7	2.4	0.9	10
154	12	2.6	3.8	1.3	18
219	20	3.3	4.5	1.8	27
269	29	4.5	*	2.2	33
311	40	*	*	2.6	39
383	58	*	*	3.2	46
375/525 4-Way ADCD					
108	4	3.0	4.0	0.7	10
168	6	4.1	5.1	1.0	13
235	12	4.8	6.0	1.4	24
292	18	5.2	*	1.8	31
339	22	*	*	2.0	36
400	29	*	*	2.4	40
450/595 4-Way ADCD					
160	3	2.3	3.2	0.8	10
207	4	3.0	4.2	1.0	16
250	6	3.6	5.0	1.2	21
349	11	5.0	*	1.6	31
504	23	*	*	2.4	39
590	32	*	*	2.8	45
710	44	*	*	3.3	51

Diffuser ratings are based on mounting height being 2.8 meters.

Throw range is defined by the minimum and maximum horizontal distances at right angles to the side of the diffuser.

Note: Table indicates throw for 4-way pattern.

To estimate throw for the same airflows for other patterns, apply the approach multiplier to the 4-way throws figures.

1-way x 2
2-way x 1.4
3-way x 1.5

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QUICK SELECTION CHART

Air Quantity	Diffuser Neck Sizing (mm)				
	Throw (m)				
	1.0 - 1.3	1.3 - 1.8	1.8 - 2.2	2.2 - 3.0	3.0 - 4.0
55 - 70	225 x 225	150 x 150	150 x 150		
75 - 120	300 x 300	225 x 225	225 x 225	225 x 225	
125 - 150		300 x 300	300 x 300	300 x 300	
155 - 200			450 x 450	450 x 450	300 x 300
205 - 250				450 x 450	375 x 375
255 - 300					450 x 450
305 - 350					450 x 450
355 - 450					

Guide Only

The above sizes are based on a 4 way throw

3 way = Air quantity x 0.75

2 way = Air quantity x 0.50