

# Product Information

## Square Grid Diffuser : AS704 GN/GNT

Jupiter Hvac Equipments Square Grid Diffuser AS704 GN/GNT is an architectural diffuser with multiple air outlets, placed in a single plane. It provides excellent diffusion as the air exits in all four directions and hugs the ceiling to provide efficient mixing and performance. It features a removable core which provides for easy installation and for easy access to the Plenum/Damper.



Diffuser's Outer frame and central core are manufactured from high quality precision stamped Aluminium sheet. The following 2 types are available.

**AS-704-GN:** 4 way core with stamped outer frame & core for grid ceilings

**AS-704-GNT:** 4 way core with stamped tegular outer frame & core for tegular grid ceilings

The Standard finish is Powder Coated in Jupiter hvac White (CW) or Jupiter hvac Off-white (CO). An optional Opposed Blade damper or Plenum may be ordered for supply applications.

AS704-GN/GNT (Standard Sizes)	
Neck Size	Outer Size
150 x 150mm	595 x 595mm
225 x 225mm	595 x 595mm
300 x 300mm	595 x 595mm
375 x 375mm	595 x 595mm
450 x 450mm	595 x 595mm

Material of Construction	
Outer Frame	1.2mm thick Stamped Aluminium Sheet
Center Core	0.9mm thick Stamped Aluminium Sheet

### Jupiter Hvac Equipments

B-23, Phase-2 Noida, G.B. Nagar (U.P)

Tel : +91 8826459592

Email: info@jupiterhvac.co.in

www.jupiterhvac.co.in

Material thicknesses mentioned are subject to Standard Tolerances

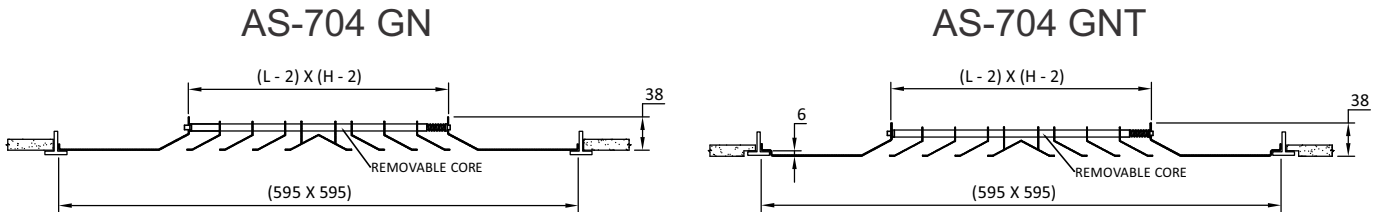
All Specifications are Subject to Change Without Notice

Rev 0 – April, 2021

AFS/B/5.1

# Product Information

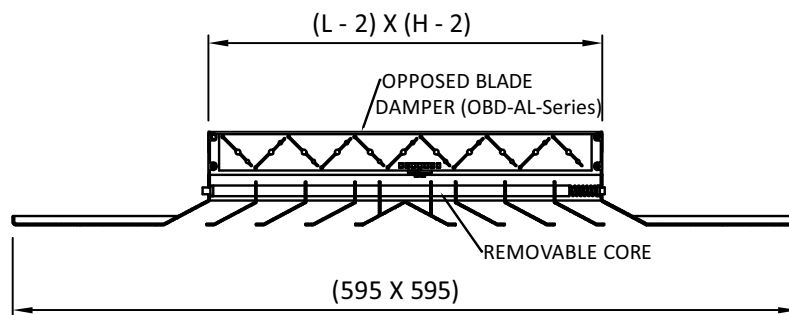
## Dimensions



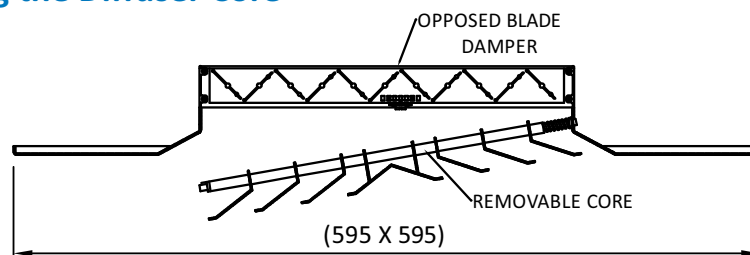
## Optional Opposed Blade Volume Control Dampers

Damper Model	OBD-AL-MF	OBD-AL-BF	OBD-MS-BL
FINISH	MILL FINISH	BLACK BLADES	BLACK BLADES
TOP & BOTTOM FRAME	1.15mm Extruded Aluminium		0.8mm Mild Steel
SIDE FRAME	1.0mm Extruded Aluminium		0.8mm Mild Steel
BLADES	1.0mm Extruded Aluminium		0.6mm (0.3 x 2) Mild Steel
BLADE MOVEMENT STRIP	1.0mm Extruded Aluminium		1.5mm Mild Steel

## Diffuser with Neck Mounted Opposed Blade Damper



Adjustment of the Opposed Blade Damper can be made from the Room Side by removing the Diffuser Core



### Jupiter Hvac Equipments

B-23, Phase-2 Noida, G.B. Nagar (U.P)

Tel : +91 8826459592

Email: [info@jupiterhvac.co.in](mailto:info@jupiterhvac.co.in)

[www.jupiterhvac.co.in](http://www.jupiterhvac.co.in)

Material thicknesses mentioned are subject to Standard Tolerances

All Specifications are Subject to Change Without Notice

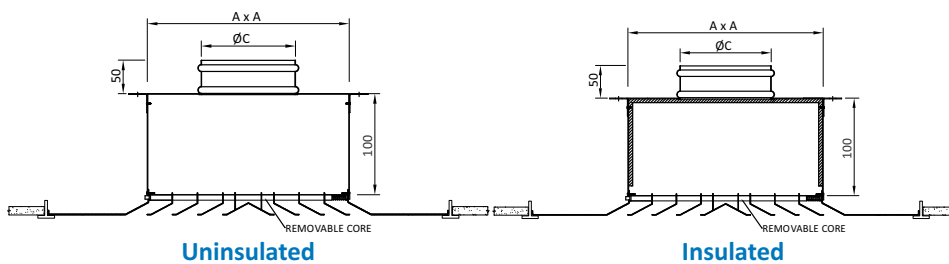
Rev 0 – April, 2021

AFS/B/5.2

# Product Information

For best results, a factory made optional plenum must be used. Plenum Box made with 24Ga GI, will be supplied with or without 6mm Close cell Nitrile Rubber Insulation, as required (Other optional insulation types/thickness available)

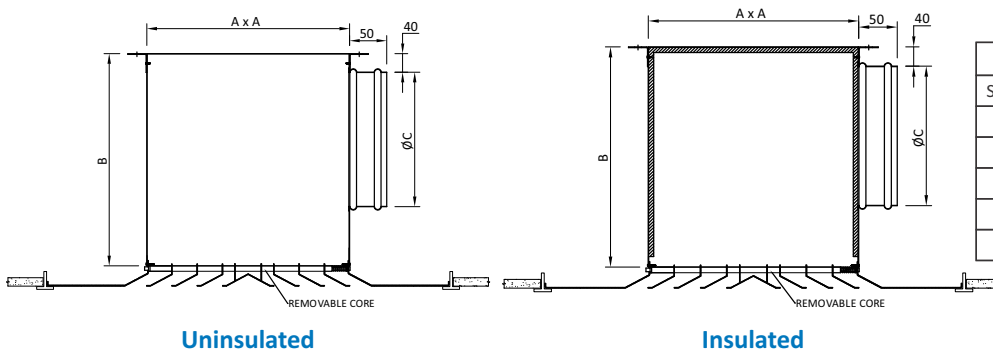
## Plenum with Top Inlet



DIMENSIONS			
S. No.	Nom Size	A	ØC
1	150 x 150	150	124
2	225 x 225	225	159
3	300 x 300	300	199
4	375 x 375	375	249
5	450 x 450	450	314

\* ØC is centered on AxA

## Plenum with Side Inlet



DIMENSIONS				
S. No.	Nom Size	A	B	ØC
1	150 x 150	150	239	124
2	225 x 225	225	274	159
3	300 x 300	300	314	199
4	375 x 375	375	364	249
5	450 x 450	450	429	314

## Specification

Square Grid Ceiling Diffuser is made of precision formed 1.2mm thick Aluminium frame and 0.9mm thick Aluminium central core, duly powder coated. In AS-704 GN the Diffuser Frame sits flush on the ceiling T. In AS-704 GNT the Diffuser Frame is designed with a step-down construction to match the tegular ceiling tiles. The Diffusers provide efficient mixing and performance. The Multiple air outlets are arranged in a single plane to form a removable Core to provide excellent diffusion as the air exits the diffuser.

The removable core provides easy access to the plenum/damper. The Core is secured with a safety cord to prevent it from falling while damper adjustments and regular maintenance is being done.

An optional opposed blade damper of Aluminium or steel construction can be mounted on the diffuser neck. Optional Plenum Box is supplied with or without 6mm Close Cell Nitrile Rubber Insulation.

The Standard finish is Powder Coated in Caryaire White (CW) or Caryaire Off-white (CO).

## Jupiter Hvac Equipments

B-23, Phase-2 Noida, G.B. Nagar (U.P)

Tel : +91 8826459592

Email: info@jupiterhvac.co.in

www.jupiterhvac.co.in

Material thicknesses mentioned are subject to Standard Tolerances

All Specifications are Subject to Change Without Notice

Rev 0 – April, 2021

AFS/B/5.3

# Product Information

## Quick Selection Table

CMH	CFM		150x150	225x225	300x300	375x375	450x450	525x525
			6x6	9x9	12x12	15x15	18x18	21x21
			0.0109	0.0244	0.0435	0.0679	0.0978	0.1331
100	59	A	2.5	1.1				
		B	0.5	0.3				
		C	4.5	0.9				
		D	18					
120	71	A	3.1	1.4				
		B	0.6	0.4				
		C	6.5	1.3				
		D	22	6				
140	82	A	3.6	1.6				
		B	0.7	0.5				
		C	8.9	1.8				
		D	26	9				
160	94	A	4.1	1.8	1.0			
		B	0.8	0.5	0.4			
		C	11.6	2.3	0.7			
		D	29	13				
180	106	A	4.6	2	1.1			
		B	0.9	0.6	0.4			
		C	14.7	2.9	0.9			
		D	32	16				
200	118	A	5.1	2.3	1.3			
		B	1.0	0.7	0.5			
		C	18.2	3.6	1.1			
		D	35	18	6			
250	147	A	6.4	2.8	1.6	1.0		
		B	1.2	0.8	0.6	0.5		
		C	28.4	5.7	1.8	0.7		
		D	40	24	12			
300	177	A	7.6	3.4	1.9	1.2		
		B	1.5	1.0	0.7	0.6		
		C	40.9	8.2	2.6	1.1		
		D	45	28	16	7		
350	206	A	8.9	4	2.2	1.4	1.0	
		B	1.7	1.2	0.9	0.7	0.6	
		C	56.7	11.1	3.5	1.4	0.7	
		D	49	32	20	11		
400	235	A		4.6	2.6	1.6	1.1	
		B		1.3	1.0	0.8	0.7	
		C		14.5	4.6	1.9	0.9	
		D		35	24	15	7	
450	265	A		5.1	2.9	1.8	1.3	
		B		1.5	1.1	0.9	0.7	
		C		18.4	5.8	2.4	1.1	
		D		38	27	17	10	
500	294	A		5.7	3.2	2.0	1.4	
		B		1.7	1.2	1.0	0.8	
		C		22.7	7.1	2.9	1.4	
		D		41	29	20	10	
600	353	A		6.8	3.8	2.5	1.7	1.3
		B		2.0	1.5	1.2	1.0	0.9
		C		32.7	10.3	4.2	2.0	1.1
		D		45	34	25	17	11

NR &gt; 25

NR &lt; 25

CMH	CFM		225x225	300x300	375x375	450x450	525x525	600x600
			9x9	12x12	15x15	18x18	21x21	24x24
			0.0244	0.0435	0.0679	0.0978	0.1331	0.1739
700	412	A	8.0	4.5	2.9	2.0	1.5	1.1
		B	2.3	1.7	1.4	1.2	1.0	0.9
		C	44.5	14.0	5.7	2.8	1.5	0.9
		D	49	37	28	21	15	9
800	471	A		5.1	3.3	2.3	1.7	1.3
		B		2.0	1.6	1.3	1.1	1.0
		C		18.3	7.5	3.6	2.0	1.1
		D		41	32	24	18	12
900	530	A		5.7	3.7	2.6	1.9	1.4
		B		2.2	1.6	1.5	1.3	1.1
		C		23.1	9.5	4.6	2.5	1.4
		D		44	35	27	21	15
1000	589	A		6.4	4.1	2.8	2.1	1.6
		B		2.5	2.0	1.7	1.4	1.2
		C		28.5	11.7	5.6	3.0	1.8
		D		46	37	30	23	18
1200	706	A		7.7	4.9	3.4	2.5	1.9
		B		3.0	2.4	2.0	1.7	1.5
		C		41.1	16.9	8.1	4.4	2.6
		D		51	42	34	28	23
1400	824	A			5.7	4.0	2.9	2.2
		B			2.8	2.3	2.0	1.7
		C			23.0	11.1	6.0	3.5
		D			46	38	32	26
1600	942	A			6.5	4.5	3.3	2.6
		B			3.2	2.7	2.3	2.0
		C			30.0	14.5	7.8	4.6
		D			49	41	35	30
1800	1059	A			7.4	5.1	3.8	2.9
		B			3.6	3.0	2.6	2.2
		C			38.0	18.3	9.9	5.8
		D			52	44	38	33
2000	1177	A				5.7	4.2	3.2
		B				3.3	2.9	2.5
		C				22.6	12.2	7.1
		D				47	41	35
2500	1471	A				7.1	5.2	4
		B				4.2	3.6	3.1
		C				35.3	19.1	11.2
		D				52	46	41
3000	1766	A					6.3	4.8
		B					4.3	3.7
		C					27.4	16.1
		D					51	45
3500	2060	A					7.3	5.6
		B					5.0	4.4
		C					37.3	21.9
		D					54	49
4000	2354	A					8.3	6.4
		B					5.7	5.0
		C					48.8	28.6
		D					58	52

NR &gt; 25

NR &gt; 25

### Jupiter Hvac Equipments

B-23, Phase-2 Noida, G.B. Nagar U

.P) Tel : +91 8826459592

Email: info@jupiterhvac.co.in

www.jupiterhvac.co.in

Material thicknesses mentioned are subject to Standard Tolerances

All Specifications are Subject to Change Without Notice

Rev 0 – April, 2021

AFS/B/5.4