



Air Outlets

JET NOZZLE JN



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JET NOZZLE JN

TYPES

- JN : JET NOZZLE



FEATURES

MATERIALS

- Frame : high quality aluminium sheet forming.
- INNER CORE : high quality aluminium sheet forming .

FINISH

- Standard electrostatic white paint ,
other colours available on request .

- Jet nozzle designed for handling large air volumes and long throw also , suitable for horizontal and vertical discharge applications such as entrance ways, gymnasiums, swimming pools airports.... Etc.
- Jet nozzle cause a low noise characteristics which allow the utilization of these jet nozzle in critical areas such as theatres , museums....ETC
- For use in heating or cooling applications.
- AXLE : High quality extruded aluminium bar , Adjustable core provides easy adjustment of the direction of the discharge up to maximum of 30° from the mid position of any plane .
- On unites with more than one element these are constructed in multiples of single elements banked together in amounting frame (1,2,3,4)
- Elements available with plenum box and optional opposed blade damper , in rear of plenum box.
- Butterfly round damper mounted on jet neck available

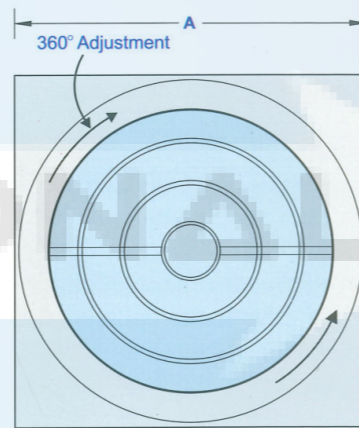


Air Outlets

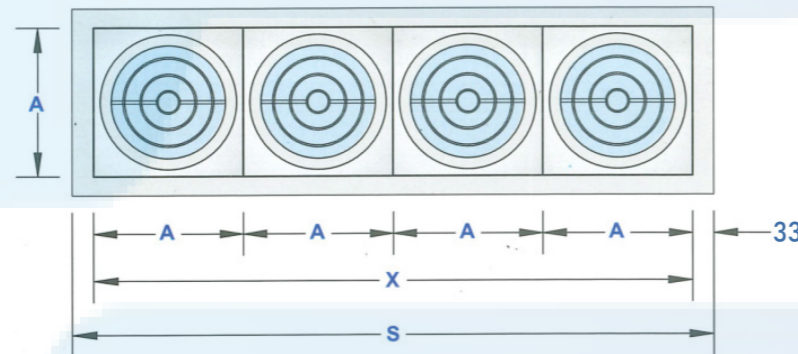


DIMENSIONAL

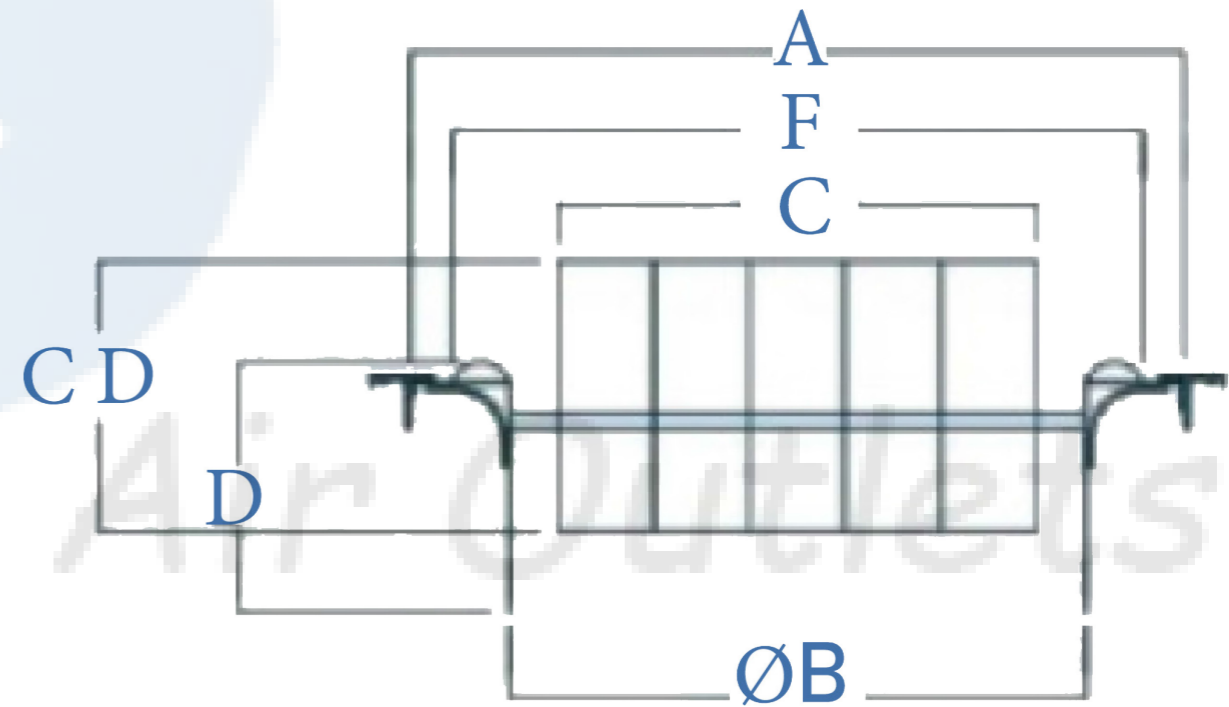
**Jet Nozzle
Single Square Element**



**Jet Nozzle
Multiple Element
Bank of four**



DIMENSIONAL



No . of Element	S			
	200	250	300	350
1	366	416	466	516
2	666	766	866	966
3	966	1116	1266	1416
4	1266	1466	1666	1866

Neck Size ØB	A	Face F	Core C	Core Depth CD	Depth D
200	300	260	170	100	140
250	350	310	200	130	150
300	400	360	250	140	150
350	450	410	300	160	160

ACCESSORIES

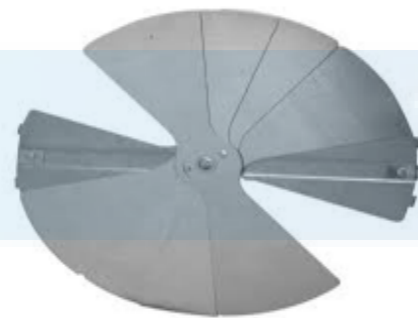
1- BUTTERFLY DAMPER

. Galvanized steel material
A butterfly damper that provides simple , easy , economical control of air volume . Friction pivots on heavy-gauge metal blades keep blades at desired setting.



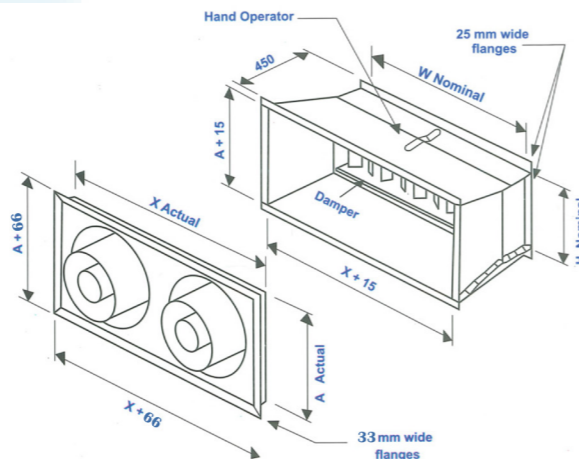
2- RADIAL DAMPER

Galvanized steel material
Gang operated radial blades side, each blade over the next , at right angles to the airflow. It is separately mounted in the duct , just above the diffuser. Adjusts with a screw driver from the face side of the diffuser



3- PLENUM BOX & VOLUME

DAMPER Galvanized steel material
The plenum box is used to achieve optimum throw characteristic.



PERFORMANCE NOTES

- Data on the performance tables are based on 20°F temperature difference between supply air and average room temperature.
- Throw - is the distance measured in feet that the air stream travels from outlets at 50 fpm. Terminal velocity.
- If the air stream from diffuser happened to travels close to any surface such as obstructions, walls, ceiling etc. then that part of the throw will increase by a factor of 1.4
- Throw and pressure drop of multi elements are based on all elements being set to give parallel discharge with total volume distributed equally to individual element.
- The individual elements flow can be adjusted to any desired spread pattern where the throw will increase by 40% and sound level by 5 dB.
- NC ratings are based on control damper positioned 100 open and microphone located 10 feet at 45 from the face of the diffuser in a room having 8 dB attenuation (re: 10¹² watts). Deduct 4 dB for 20 feet and 6 dB for 30 feet . if damper is at 50 open position , then the noise increase to 5 dB.

PERFORMANCE DATA

Jet Nozzle

CFM	Model	Size 200				Size 250				Size 300				Size 350				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
100	Throw (ft)	9																
	Δ Ps	0.02																
	NC	-																
200	Throw (ft)	19	11			15												
	Δ Ps	0.07	0.02			0.02												
	NC	23	-			-												
300	Throw (ft)	28	14	11		22				18								
	Δ Ps	0.14	0.04	0.02		0.05				0.02								
	NC	31	20	-		22				-								
400	Throw (ft)	37	23	12	11	29	18			24				22				
	Δ Ps	0.24	0.07	0.03	0.02	0.08	0.02			0.04				0.02				
	NC	34	26	19	15	27	15			21				15				
500	Throw (ft)	46	28	19	14	37	22			29				27				
	Δ Ps	0.36	0.10	0.05	0.03	0.12	0.03			0.06				0.03				
	NC	41	30	24	20	32	20			26				20				
600	Throw (ft)	55	34	23	17	44	26	18		36	22			33				
	Δ Ps	0.50	0.14	0.07	0.04	0.17	0.05	0.02		0.08	0.02			0.04				
	NC	45	34	28	23	35	25	17		29	17			23				
700	Throw (ft)		39	26	20	51	31	21		42	25			38				
	Δ Ps		0.19	0.09	0.05	0.22	0.06	0.03		0.11	0.03			0.05				
	NC		37	31	25	38	27	21		32	21			25				
800	Throw (ft)		44	30	23	59	35	23	18	48	29			44	26			
	Δ Ps		0.24	0.12	0.07	0.29	0.08	0.04	0.02	0.14	0.04			0.06	0.02			
	NC		40	34	29	41	30	24	18	35	24			28	18			
900	Throw (ft)		50	34	25	66	40	26	20	54	33	22		49	30			
	Δ Ps		0.30	0.14	0.08	0.35	0.10	0.05	0.03	0.17	0.05	0.02		0.07	0.02			
	NC		42	35	31	43	33	27	22	37	27	19		29	19			
1000	Throw (ft)		55	37	28	73	44	29	22	61	35	24		55	32			
	Δ Ps		0.36	0.17	0.10	0.43	0.12	0.06	0.03	0.21	0.06	0.03		0.09	0.03			
	NC		44	38	33	46	35	29	24	39	29	23		32	23			
1200	Throw (ft)		66	44	33		53	35	26	73	43	29	22	66	40	26		
	Δ Ps		0.05	0.24	0.14		0.17	0.08	0.05	0.29	0.08	0.04	0.02	0.12	0.04	0.02		
	NC		48	41	37		38	32	28	43	32	26	20	35	26	20		
1400	Throw (ft)			52	39		61	41	31	85	50	34	25	77	46	31		
	Δ Ps			0.32	0.19		0.22	0.11	0.06	0.38	0.11	0.05	0.03	0.16	0.05	0.02		
	NC			45	40		41	35	30	46	35	28	24	39	28	21		
1600	Throw (ft)			59	44		71	47	35		58	39	29	88	53	35	26	
	Δ Ps			0.41	0.24		0.29	0.17	0.08		0.14	0.07	0.04	0.21	0.06	0.03	0.02	
	NC			47	43		44	38	33		38	32	27	41	31	25	21	
1800	Throw (ft)			66	50		79	53	40		65	43	33	99	59	40	30	
	Δ Ps			0.50	0.30		0.35	0.17	0.10		0.17	0.08	0.05	0.26	0.07	0.04	0.02	
	NC			49	45		46	40	36		40	34	30	44	32	28	22	

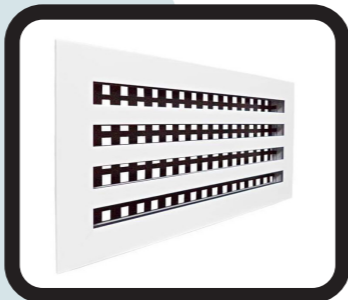
PERFORMANCE DATA

Jet Nozzle

CFM	Model	Size 200				Size 250				Size 300				Size 350				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
2000	Throw (ft)				55		88	58	44		73	48	35	110	66	44	32	
	Δ Ps				0.36		0.43	0.21	0.12		0.21	0.1	0.06	0.31	0.09	0.04	0.03	
	NC				47		49	42	38		42	36	32	46	35	28	24	
2200	Throw (ft)				61			66	48		80	53	40		73	48	36	
	Δ Ps				0.42			0.24	0.15		0.25	0.11	0.07		0.11	0.05	0.03	
	NC				48			44	40		44	37	33		37	30	26	
2400	Throw (ft)				66			70	53		88	58	43		79	53	40	
	Δ Ps				0.50			0.29	0.17		0.29	0.14	0.08		0.12	0.06	0.04	
	NC				51			46	41		46	40	35		38	32	28	
2600	Throw (ft)							76	57		94	63	47		86	57	43	
	Δ Ps							0.33	0.20		0.34	0.16	0.10		0.14	0.07	0.04	
	NC							48	43		48	41	37		40	34	29	
2800	Throw (ft)							82	61		102	68	50		92	62	46	
	Δ Ps							0.38	0.22		0.38	0.18	0.11		0.16	0.08	0.05	
	NC							49	44		49	43	38		42	36	31	
3000	Throw (ft)							87	66			73	54		99	66	49	
	Δ Ps							0.43	0.25			0.21	0.12		0.19	0.09	0.05	
	NC							50	46			44	39		43	37	32	
3500	Throw (ft)								77			85	63		115	77	58	
	Δ Ps								0.34			0.28	0.16		0.25	0.12	0.07	
	NC								49			47	43		46	40	35	
4000	Throw (ft)								88			97	73		132	88	66	
	Δ Ps								0.43			0.35	0.21		0.31	0.15	0.09	
	NC								52			50	45		49	43	38	
4500	Throw (ft)											109	82		99	77		
	Δ Ps											0.44	0.26		0.19	0.11		
	NC											52	48		45	40		
5000	Throw (ft)												91		109	82		
	Δ Ps												0.31		0.23	0.13		
	NC												50		47	42		
5500	Throw (ft)													99		120	91	
	Δ Ps													0.37		0.27	0.16	
	NC													52		49	45	
6000	Throw (ft)															132	99	
	Δ Ps															0.32	0.19	
	NC															51	46	
6500	Throw (ft)																107	
	Δ Ps																0.22	
	NC																48	
7000	Throw (ft)																	115
	Δ Ps																	25
	NC																	49



Linear Slot Diffusers LSD



Linear Bar Grilles LBG

External Louvers EX-L



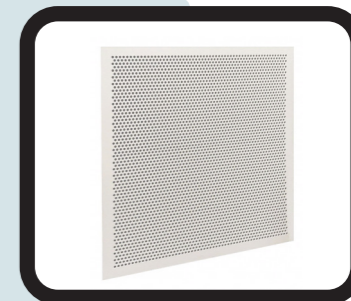
Square Ceiling Diffusers SCD



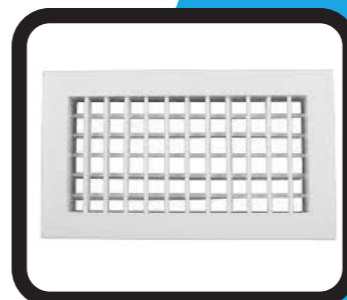
Jet Nozzles JN



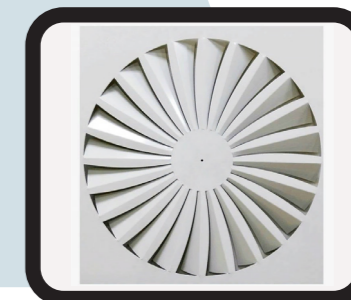
Perforated Ceiling Diffusers PCD



Grilles And Registers SR



Swirl Diffusers SW-D

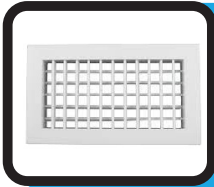


Volume Control Dampers VCD

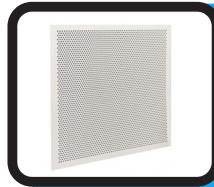


Curtain Fire Dampers FD-C





GRILLES AND REGISTERS



**PERFORATED CEILING
DIFFUSERS**



**SQUARE & RECTANGULAR
& Circular CEILING
DIFFUSERS**



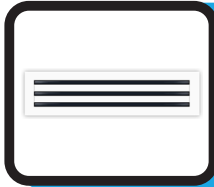
GRAVITY SHUTTERS



**LINEAR BAR
GRILLES®ISTERS**



TRANSFER GRILLES



**Linear Slot
Diffusers**



DISC VALVES



EXTERNAL LOUVERS



SWIRL DIFFUSERS



SAND TRAP LOUVERS



**VOLUME CONTROL
DAMPERS**



JET NOZZLES



**CURTAIN FIRE
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**SMOKE MOTORIZED
DAMPERS**

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