

Jet Nozzle – JN
Model: JN-AB-11A/B
Type: A- Square Face; B- Round Face
Construction: Aluminium (AL)

BETEC CAD. manufactures Jet Nozzles, which are designed to be used mainly in HVAC systems for the supply of conditioned (cool / hot) air from the jet diffuser, which has to travel a large distance to the occupied zone, where the distribution of air via ceiling diffusers is not possible. The jet nozzles are placed in the corners, high level areas and can be mounted in any angle, as its air pattern can be altered to any angle.

Jet Nozzle are suitable for vertical, inclined and horizontal air discharge applications, where spot heating or cooling is required such as entrances and concentrated areas of machinery which have high heat loads and are hence used normally in large rooms like Malls, Airports, Auditoriums, Sports Arena, Hyper markets, Zoo etc.

Description

The frame, inner rings and mounting plate are of high quality aluminium construction. Nozzles are adjusted 30° up words and down words to achieve required throw as per site condition. Nozzle jet can be rotated by 360° by adjusting the mounting frame. The diffusers are wall mounted and are designed to withstand larger airflows with longer throws.

They are ideal for concert halls, theatres, exhibition and sport halls.

Standard Construction
Frame

Aluminium sheet.

Outer flange

Aluminium sheet.

Inner rings

Aluminium spun rings.

Mounting plate

1.2 mm thick aluminium sheet.

Finish

Mill Finish

Optional Fittings
Plenum chamber

Plenum is available with circular, square or rectangular spigots in either top or side entry applications.

Plenum Casing

0.7 mm thick galvanized steel sheet.

Insulation

 Acoustic liner of 13 mm thickness, 32 kg/m³ density.

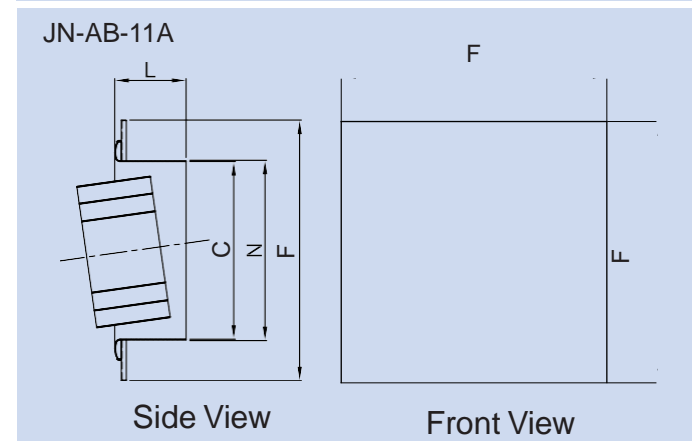
Finish

Available with RAL powder coating, please specify color.

B-10 Series


JN-AB-11A

JN-AB-11B

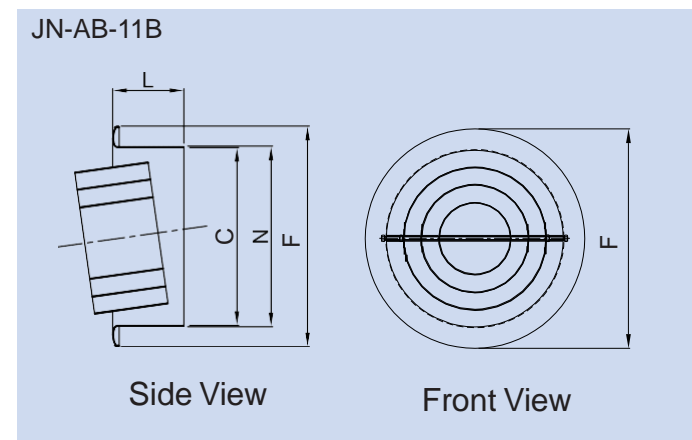


JN-AB-11A

F

Side View

Front View



JN-AB-11B

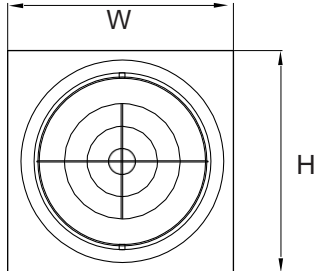
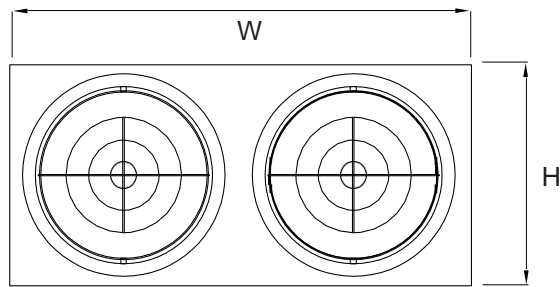
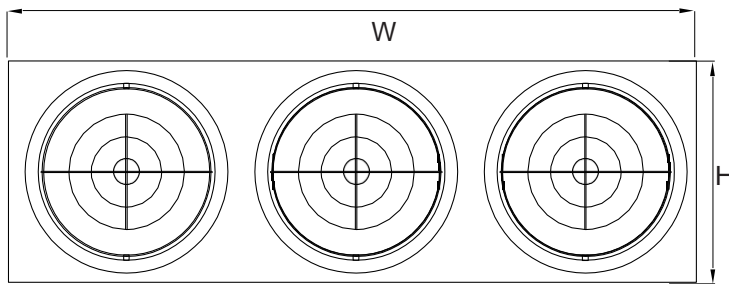
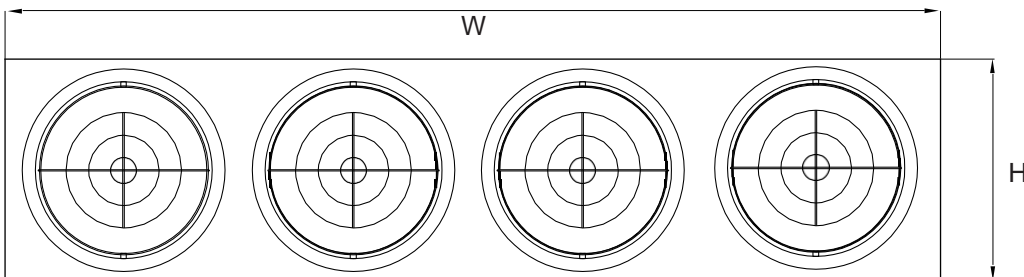
Side View

Front View

N = Nominal Duct Dia	JN-AB-11A	JN-AB-11B		L	No of Slots
	F=Face Size	C	F=Face Size		
150	240 x 240	150	220	130	2
210	295 x 295	205	275	130	3
250	350 x 350	248	325	130	4
300	400 x 400	300	375	130	5
350	450 x 450	340	425	130	6
400	500 x 500	398	475	130	7

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.



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Construction Details and Daimensions
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Model: JN-AB-11A- 1P

Model: JN-AB-11A-2P

Model: JN-AB-11A-3P

Model: JN-AB-11A-4P

Model	Face Plate	
	Width (mm)	Height (mm)
JN-AB-11A-1P		
150 mm Neck Dia	250	250
200 mm Neck Dia	300	300
250 mm Neck Dia	350	350
300 mm Neck Dia	400	400
350 mm Neck Dia	450	450
400 mm Neck Dia	500	500

Model	Face Plate	
	Width (mm)	Height (mm)
JN-AB-11A-2P		
150 mm Neck Dia	500	250
200 mm Neck Dia	610	300
250 mm Neck Dia	710	350
300 mm Neck Dia	810	400
350 mm Neck Dia	910	450
400 mm Neck Dia	1010	500

Model	Face Plate	
	Width (mm)	Height (mm)
JN-AB-11A-3P		
150 mm Neck Dia	750	250
200 mm Neck Dia	915	300
250 mm Neck Dia	1065	350
300 mm Neck Dia	1215	400
350 mm Neck Dia	1365	450
400 mm Neck Dia	1515	500

Model	Face Plate	
	Width (mm)	Height (mm)
JN-AB-11A-4P		
150 mm Neck Dia	1000	250
200 mm Neck Dia	1220	300
250 mm Neck Dia	1420	350
300 mm Neck Dia	1620	400
350 mm Neck Dia	1820	450
400 mm Neck Dia	2020	500

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Jet Nozzle – JN
B-10 Series
Engineering And Performance Data
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Size	Neck Velocity	400	800	1200	1600	2400	2800	3200	3600	4000
6	CFM	123	153	183	213	243	273	303	333	363
	Ps (in.w.g)	0.023	0.036	0.05	0.12	0.21	0.33	0.52	0.74	0.92
	Throw	13.12	16.4	19.6	23	26.2	29.5	50	60	72
	NC	<15	<15	18	20	22	23	24	25	25
8	CFM	142	187	232	277	322	367	412	457	502
	Ps (in.w.g)	0.024	0.048	0.096	0.15	0.25	0.37	0.61	0.82	1.22
	Throw	22	37	52	65	111	127	137	147	160
	NC	<15	<15	17	18	19	21	23	24	25
10	CFM	175	235	295	350	410	470	530	590	650
	Ps (in.w.g)	0.017	0.034	0.069	0.12	0.23	0.41	0.74	0.93	1.31
	Throw	30	48	69	101	147	183	210	231	256
	NC	<15	<15	17	19	20	21	21	22	24
12	CFM	222	302	382	462	542	622	702	782	862
	Ps (in.w.g)	0.02	0.05	0.1	0.15	0.3	0.53	0.87	1.02	1.37
	Throw	30	52	72.12	107	152	191	217	237	267
	NC	<15	<15	16	18	19	22	26	28	30
14	CFM	277	376	475	574	672	770	869	968	1067
	Ps (in.w.g)	0.03	0.06	0.1	0.16	0.31	0.59	0.99	1.1	1.42
	Throw	32	55	90	125	162	203	226	249	276
	NC	<15	<15	18	20	21	24	27	30	32
16	CFM	347	467	587	707	827	949	1070	1190	1313
	Ps (in.w.g)	0.04	0.069	0.16	0.2	0.39	0.71	1.19	1.37	1.57
	Throw	36	62	101	136	179	210	237	263	294
	NC	<15	<15	22	24	25	28	31	33	36

Note:

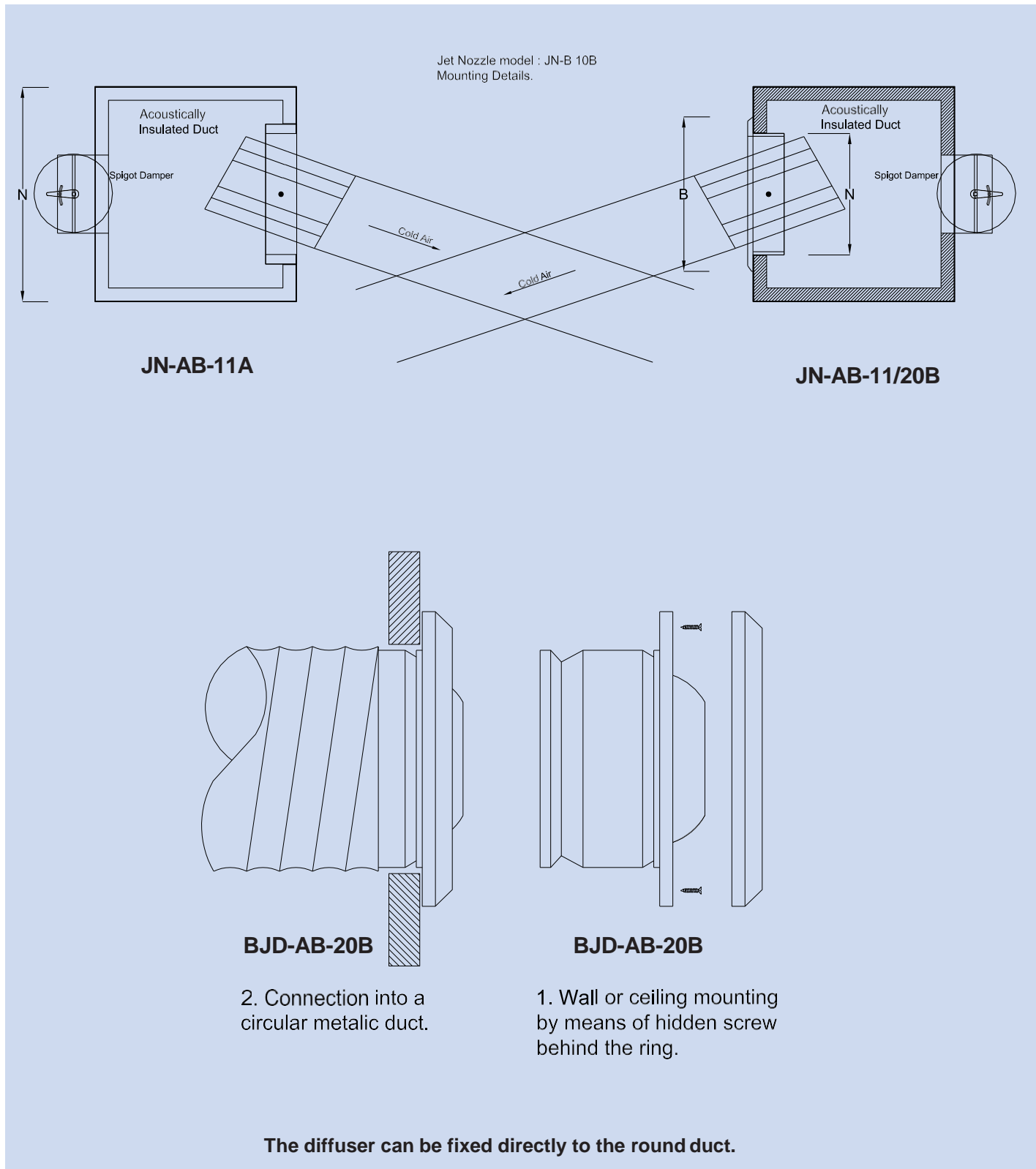
1. Airflow is measured in Cubic foot/ minute (CFM).
2. Static Pressure (Ps) is measured in inch water guage (in.w.g).
3. Noise Criteria (NC) is measured in decibals (dB).
4. Neck velocity is measured in feet/ minute (fpm).

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Valves & Nozzels

Installation Details



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