



JET DIFFUSER

EJN

The Power of
EXPERIENCE



INTRODUCTION

INTRODUCTION

Expert Middle East is one of the top leaders in HVAC system instruments fabrication, established in 2015.

Certified by ISO 9001, & ISO 14005, Along our successful & progressive journey, we strive to be the integrated service provider of HVAC system equipment in the Middle East by supplying (AHUs, FCU, Condensing units, package DX units, air outlets, air ducts, and air curtains ... etc.)

Also, by our extension through our major projects in Qatar, Oman.

And we will continue, with full commitment to providing customer focused and professional services.

Our Vision



Our vision is to become the top HVAC equipment fabrication company in the Middle East that positively impact society's lifestyle quality through our continuous innovation delivered by our skilled professional to make our customers delighted.



Our Mission



by providing Quality in every single material used by considering every customer as a priority by helping our market increase the return of building investment

Our Values



01

Customer delight:

we do it perfect, fast and save cost.

02

Priority:

we believe in saying no to thousands, to deliver unbelievable response to you.

03

Continuous improvement:

we always up to date on new trends, technologies & customer needs related to our industry

04

Competitive price:

we focus on selling value not to only profit, so our prices always fair.

05

Professionalism:

we proudly have the technical knowledge leaders through all our organization.

06

Integrity:

We expect to be always honest with ourselves first, then our employees and our customers.

JET NOZZLE

EJN



INTRODUCTION

Round and jet diffusers are always considered as a heavy-duty air distribution device having a wide range of applications in heating, air conditioning and ventilation systems. At a perfect setting, round diffusers provide an unusually uniform horizontal airflow patterns, while jet diffusers provide an efficient spot projection for air direction and orientation. With uniformly assembled concentric rings, this does not only produce optimum performance, but also assure uniformity of appearance when different sizes are used in the same area. EXPERT round and jet diffusers are always suitable for most of the HVAC applications, but they are especially well suited to factories, warehouses, convention halls, coliseums, shopping malls and other applications where ceilings are high and conditions are variable.

GENERAL

*EXPERT Jet Diffusers **EJN** are designed to deliver jet type stream of air for horizontal discharge applications such as theaters, auditorium & large assembly halls.*

It can be used for vertical discharge application including spot cooling/heating which is ideal industrial applications where extensive duct work is not required. EJN can be delivered with flat flange of 35 mm wide as standard.



Others flange widths and shapes available upon request The inner assembly rings are cylindrically shaped.

EJN inner core rings are adjustable about two independent centers to provide wider throw coverage area request . The inner assembly rings are cylindrically shaped. EJN inner core rings are adjustable about two independent centers to provide wider throw coverage area discharge.

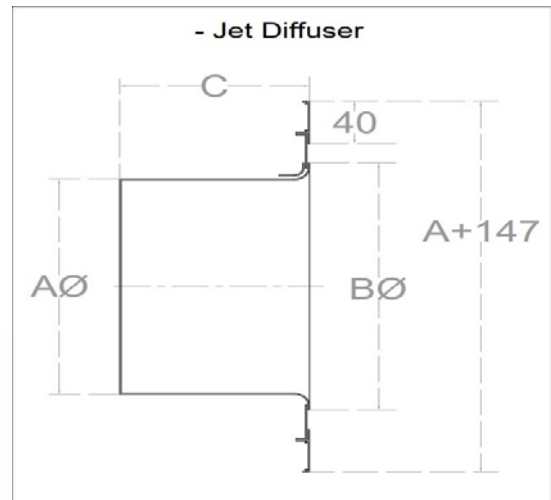


EJN provides manual discharge pattern adjustment from the front or back of diffuser. EJN diffusers are available in sizes of 4",6",8",10",12"&14"(neck diameter) to offer wide range of selection with lower sound level and higher flow capacity. Each assembly of EJN available with 1 through 4 diffuser The objective in plant air conditioning is to provide satisfactory comfort for worker with minimum installed cooling tonnage . Therefore, today HVAC engineers prefer spot or localized cooling rather than cooling of entire factory by which efficiency can be improved and reduce operating costs.

Construction & Dimensions

Comprises of a Spun Jet Nozzle section mounted in square face plate with angle flanged border. For mounting onto clients duct or plenum border supplied undrilled as standard. Jet nozzles can be adjusted 30° upwards to 30° downwards. The nozzle mounting plate can also be rotated through 360° which enables the air jets to be fully directional.

Dimensions				
Size	Nominal Size			
	A (MM)	B (MM)	C (MM)	Number of Cores
200	203	260	130	2
250	253	310	130	3
300	303	360	130	3
350	353	410	150	3



PERFORMANCE NOTES :

The following performance notes should be taken into consideration before starting jet diffuser selection using the general basic performance data table.

- 1.Data in the basic performance table are for applications based on 20°F temperature difference between supply air and average room temperature.
- 2.Throw values (measured in feet) are the distance between the face of the diffuser and the position with 50 FPM mean velocity of the jet stream.

3. NC ratings are measured at 10 Ft away from diffuser face in a room with 10 dB sound attenuation. Deduct 3 dB for 20 Ft and 7 dB for 30 Ft. For an assembly of multi-jet diffusers, consider the following

The individual elements flow can be adjusted to any desired spread pattern where the throw will be reduced the single unit value.

When multi-jet elements are adjusted to full 30° pattern, then:

- a) Pressure drop will increase by 40 %.
- b) Sound level NC will increase by 6 db.



Size (inches)	8"			10"			12"			14"		
Number of Elements	1			1			1			1		
AIR VOLUME CFM	Δ Ps Inch W.G	Throw Ft	NC	Δ Ps Inch W.G	Throw Ft	NC	Δ Ps Inch W.G	Throw Ft	NC	Δ Ps Inch W.G	Throw Ft	NC
100	0.02	10	19									
200	0.06	20	22									
300	0.12	28	26	0.06	23	20						
400	0.22	40	30	0.09	31	24						
500	0.31	52	37	0.12	39	28	0.05	30	23			
600	0.42	64	41	0.16	46	34	0.07	39	28			
700				0.23	55	38	0.10	50	31			
800				0.28	62	41	0.13	58	34	0.07	49	26
900				0.33	70	44	0.16	67	36	0.09	53	29
1000				0.41	78	47	0.19	77	39	0.11	57	31
1300							0.27	88	42	0.14	64	33
1600							0.32	98	45	0.20	71	36
1900							0.40	108	48	0.28	82	38
2100							0.47	115	50	0.33	99	40
2400										0.38	111	43
2700										0.41	123	46
3000										0.49	135	48
3400												
3800												
4200												
4600												
5000												



Head Office : 6th October, 1st Distract
Central St., Building No.85
TEI : 02-38376257 - **Fax :** 02-38377311
Mob : 01000749984
Factory : 6th October, Industrial Zone,
Zone 121
E-mail : expert@expert-mideast.com
Website: www.expert-mideast.com