

20/21  
PRODUCTS

Product Catalogue

## Eye Ball Diffuser

Type ( EBD )



**Khedr Trust**  
ALL AIR PRODUCTS

Eye Ball Diffuser products are  
manufactured by



“Your comfort is  
our priority”

[www.khedr-eg.com](http://www.khedr-eg.com)





### Models

- EBD

### Finish

- Standard Finish - White

# Eye Ball Diffuser

## Model Design

Khedr Model EBD Diffusers is suitable to use with long distance throw applications.

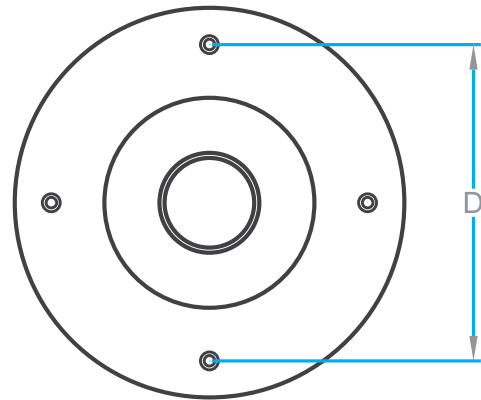
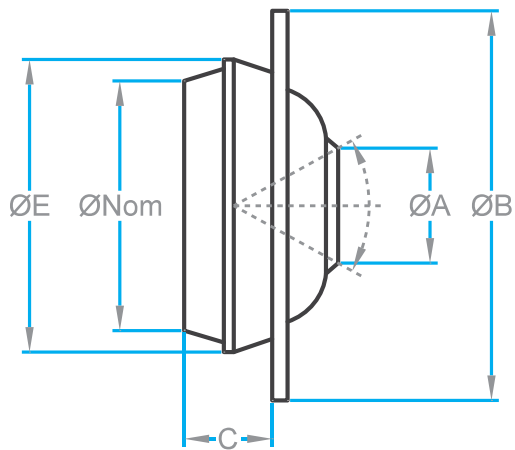
## Air Pattern

The direction of air stream can be adjusted by hand within range of  $30\pm^\circ$ .

**- Dimensions**

$\emptyset$ Nominal	$\emptyset A$	$\emptyset B$	C	D	E	$\emptyset F$
60	85	250	120	51	225	200
200	110	295	150	66	270	245
250	140	345	190	81	320	295
315	175	415	265	90	390	360

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## - Performance data

Size "Ø Inch"	Terminal Velocity $V_T$ "FPM"	Throw "feet"	Air Volume "FPM"	NC
Ø 6"	50	30	85	< 20
		60	165	< 20
		100	250	33
	100	30	165	< 20
		60	330	40
		100	495	51
	200	30	330	40
Ø 8"	50	30	105	< 20
		60	220	< 20
		100	305	25
	100	30	220	< 20
		60	435	35
		100	655	47
	200	30	435	35
60		870	49	
Ø 10"	50	30	135	< 20
		60	275	< 20
		100	380	23
	100	30	275	< 20
		60	550	32
		100	825	43
	200	30	550	32
		60	1100	51

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$V_T$  Terminal Velocity "FPM"  
NC re 8db room

Size "Ø Inch"	Terminal Velocity "FPM"	Throw "feet"	Air Volume "FPM"	NC
Ø 12"	50	30	180	< 20
		60	335	< 20
		100	540	23
	100	30	350	< 20
		60	700	28
		100	1055	40
	200	30	700	28
		60	1400	48
		100	2105	54
Ø 16"	50	30	235	< 20
		60	465	< 20
		100	700	21
	100	30	465	< 20
		60	930	28
		100	1395	39
	200	30	930	28
		60	1860	43
		100	2780	53

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VT Terminal Velocity "FPM"

NC re 8db room

### - Selection Procedure

1. Determine the required CFM per each outlet as per cooling Load Calculation.
2. Determine the Throw required.
3. Select the suitable size that give the required CFM & Throw from performance data tables.

### - Selection Procedure Example

1. Required 700 CFM as per cooling load calculations.
2. Required Throw = 60 ft.
3. The size of shall be :

- A. Size  $\phi$  8 , NC = 49.
- B. Size  $\phi$  10 , NC = 43.
- C. Size  $\phi$  12 , NC = 28.
- D. Size  $\phi$  16 , NC = 21.

Size " $\phi$ Inch"	Terminal Velocity "FPM"	Throw "feet"	Air Volume "FPM"	NC
$\phi$ 8"	200	30	455	35
		60	870	49
$\phi$ 10"	100	30	275	< 20
		60	550	32
		100	825	43
$\phi$ 12"	100	30	350	< 20
		60	700	28
		100	1055	40
$\phi$ 16"	50	30	235	< 20
		60	465	< 20
		100	700	21

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### - How to order

Type	EBD	EBD
Material	A	A Aluminum S Steel
Size	$\phi$	$\phi$ " Inch"
Finish	1	0 Aluminum 1 White Color 2 Other Colors
Damper	0	0 Without Damper 1 With Damper

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Room Types		Noise Criteria (NC)
Residences, apartments	Living areas	30
	Bathrooms, kitchens, utility rooms	35
Hotels/motels	Individual rooms or suites	30
	Meeting/banquet rooms	30
	Corridors and lobbies	40
	Service/support areas	40
Office buildings	Executive and private offices	30
	Conference rooms	30
	Teleconference rooms	25
	Open-plan offices	40
	Corridors and lobbies	40
Courtrooms	Unamplified speech	30
	Amplified speech	35
Performing arts spaces	Drama theaters, concert and recital halls	20
	Music teaching studios	25
	Music practice rooms	30
Hospitals and clinics	Patient rooms	30
	Wards	35
	Operating and procedure rooms	35
	Corridors and lobbies	40
Laboratories	Testing/research with minimal speech Communication	50
	Extensive phone use and speech communication	45
	Group teaching	35
Churches, mosques, synagogues	General assembly with critical music programs	25
Schools	Classrooms	30
	Large lecture rooms with speech amplification	30
	Large lecture rooms without speech amplification	25
Libraries		30
Indoor stadiums, gymnasiums	Gymnasiums and natatoriums	45
	Large-seating-capacity spaces with speech amplification	50

\* ASHRAE Applications – Ch. 49 Noise and Vibration Control



Other Products are provided by Khedr Trust Co.

#### Diffusers & Grilles

- Squar Ceiling Diffuser
- Circular Ceiling Diffuser
- Slot Linear Diffuser
- Linear Bar Grille
- Aluminum Grille
- Swirl Diffuser
- Perforated Ceiling Diffuser
- Disc Valve Diffuser
- Jet Diffuser
- Eye Ball Diffuser
- Door Grille
- Raised Floor Grid

#### Louvers

- Aluminum Louver
- Sand Trap Louver

#### Dampers

- Blade Volume Damper
- Toothed Wheel Volume Damper
- Gravity Shutter Damper

#### Acoustics

- Sound Attenuator
- Acoustic Louver

#### Smoke Management

- Fire Damper
- Smoke Motorized Damper
- Smoke Vent

#### Duct Works

- Galvanized Steel Duct
- Black Steel Duct
- Stainless Steel Duct
- Spiral Duct
- Flexible Duct
- Canavas
- Flanges
- Flexible Duct Connector



# Khedr Trust

ALL AIR PRODUCTS



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