



Serie Q(E)



FIXED SQUARE DIFFUSER



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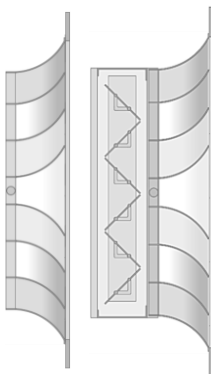
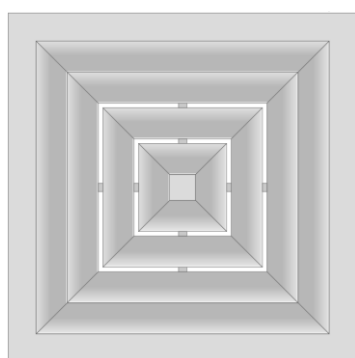


Avd. del Cno de lo Cortao, 28A, Nave 1
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FIXED SQUARE DIFFUSER SERIE Q(e)



MODELS

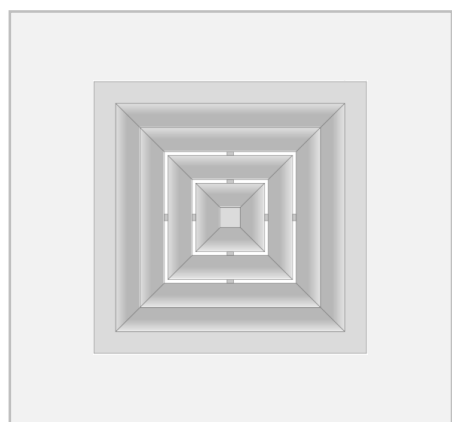


Q(e)10

Fixed square diffuser.

Q(e)10C

Fixed square diffuser with opposing blades adjustment (damper).

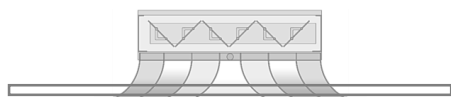


Q(e)10PL

Fixed square diffuser mounted on a 595x595 mm plate.

Q(e)10CPL

Fixed square diffuser mounted on a 595x595 mm plate with opposing blades adjustment (damper).

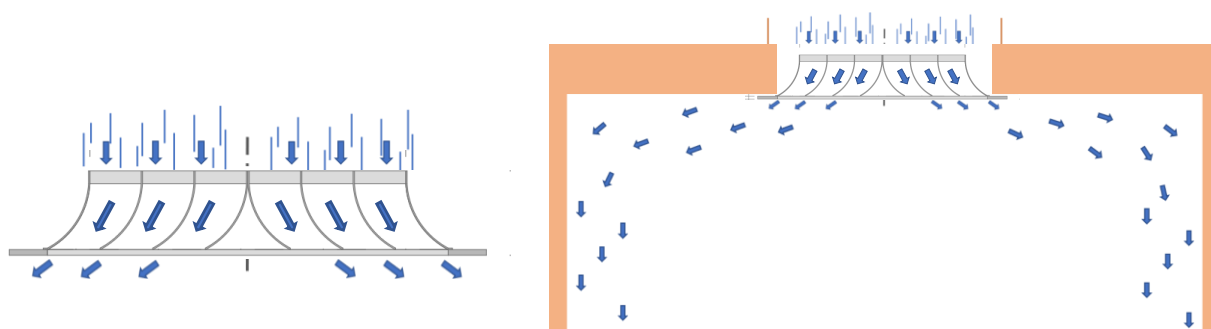


FIXED SQUARE DIFFUSER SERIE Q(e)

DESCRIPTION

The **Q(e)10** series diffusers stand out for their square design, which is tailored to meet the decorative requirements of any modern space.

Square diffusers are designed for installation in suspended ceilings or on exposed ducts. With its four outlets, it is ideal for distributing air in a commercial space.



ACCESSORIES

- **Airflow control Damper:** may be made of aluminum with opposing blades **(C)**.

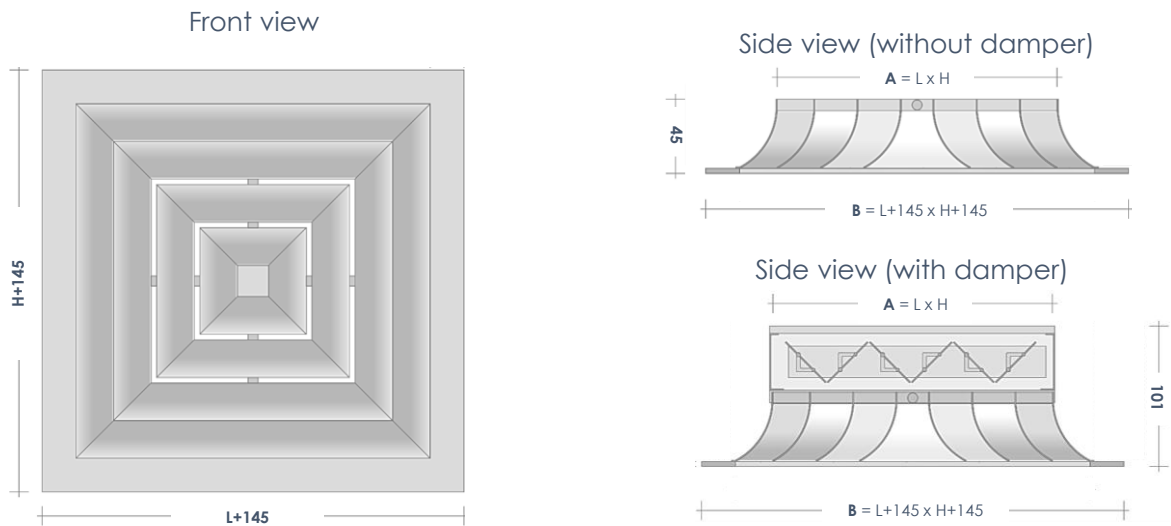
FINISH (Diffuser)

- **WHITE-LACQUERED** Diffuser.
- Diffuser made of **ANODIZED ALUMINUM**.
- On request, it can be manufactured in other colors from the **RAL** color chart.

FIXED SQUARE DIFFUSER
SERIE Q(e)

DIMENSIONS

Q(e)10

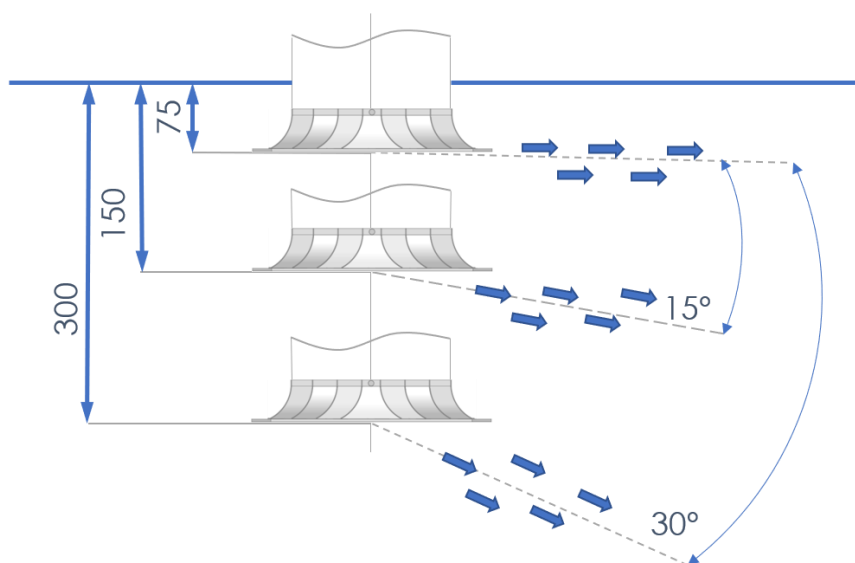


* Graphical representation of the diffuser

SIZES Q(e)10 (mm)					
LxH	6x6	9x9	12x12	15x15	18x18
A (duct)	150	225	300	375	450
B (external)	295	370	445	520	595
N° Blades	2	3	4	5	6

EFFECT OF INSTALLATION HEIGHT ON AIR DISCHARGE

The throw values listed in the selection tables apply to diffusers installed flush with the ceiling or with a maximum clearance of 75 mm. When installed with a greater clearance, these values will be reduced by approximately 20% due to the elimination of the ceiling effect. For ceiling clearances of 150 mm and 300 mm, the air will be discharged at an angle of 15° and 30°, respectively, as shown in the figure.

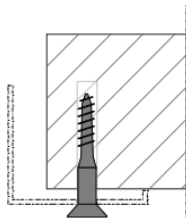


Q(e)10

Ceiling Height (m)	Q max. per Diffusor (m ³ /h)	Δt max. (°C)
2,1	680	10
2,4	1020	11
2,75	2040	13
3	3060	15
3,7	5440	17
4,3	8160	17
4,9	10200	17

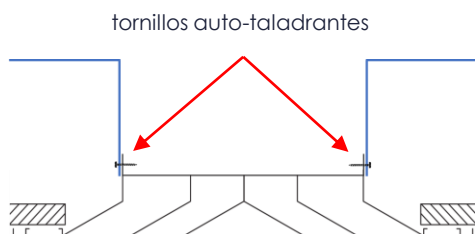
FIXED SQUARE DIFFUSER SERIE Q(e)

FIXING SYSTEM



MOUNTING WITH SIDE DRILL HOLES:

The diffuser is supplied without pre-drilled holes, but it has enough flange to allow you to drill them during installation (screws not included).



ATTACHMENT TO THE DUCT:

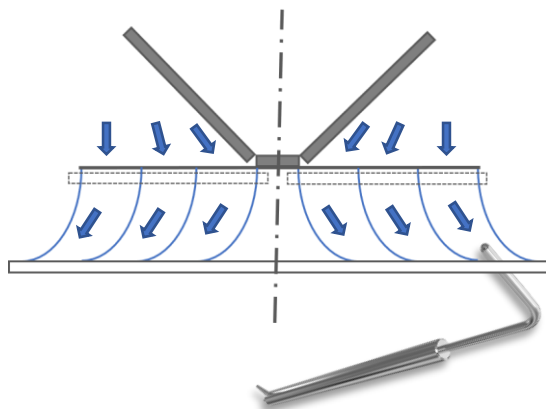
The diffuser is supplied without pre-drilled holes; it can be attached to the duct from the top (neck) using self-tapping screws (screws not included).

AIR FLOW MEASUREMENT

There are two ways to do this:

1- Measuring air speed at the neck.

2- Measuring the effective flow speed using a Pitot tube at various points. $m^2/h = V_a \times m^2 \times 3,600$



FIXED SQUARE DIFFUSER SERIE Q(e)

QUICK SELECTION TABLE

Q(e)10

L x H	A _k (m ²)	Q (m ³ /h)	dB(A)	P _t (mm)	Alc (m)	V _k (m/s)
6"x 6"	0,0109	120	23	0,7	0,7	3,3
		160	30	1,2	0,9	4,3
		200	36	1,9	1,1	5,3
		300	46	4,2	1,6	7,8
9"x 9"	0,0244	200	19	0,4	0,8	2,5
		300	29	0,9	1,1	3,6
		400	36	1,5	1,4	4,8
		500	42	2,4	1,8	5,9
12"x 12"	0,0435	350	21	0,4	1	2,4
		500	30	0,8	1,3	3,4
		700	38	1,5	1,8	4,7
		900	45	2,4	2,3	5,9
15"x 15"	0,0679	600	26	0,5	1,3	2,7
		800	33	0,8	1,7	3,5
		1000	38	1,2	2,1	4,3
		1200	43	1,8	2,5	5,1
18"x 18"	0,0978	700	22	0,4	1,3	2,2
		1000	31	0,6	1,8	3
		1200	35	0,9	2,1	3,6
		1600	42	1,5	2,8	4,7

LxH = Dimension (Length x Height)

Q = Air Flow (m³/h)

V_k = Output speed (m/s)

V_t = Terminal speed (m/s)

V_r = Residual speed (m/s)

dB = Sound level (A)

Alc = Range (m) at terminal speed (0.25 m/s)

P_t = Pressure drop (mm H₂O)

f = Induction factor

A_k = Surface Area Factor or Effective Surface Area (dm²)

FIXED SQUARE DIFFUSER SERIE Q(e)

Serie	Model	Size	Finish
	10		LB
	10C		ALU
Q(e)	10-PL		RAL
	10C-PL		

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Q(E)-10 - 6" X 6" - LB

DESCRIPTION

SERIES & MODEL

- Q(e): Fixed square diffuser.

SIZE

- : 6"x 6".

MODEL

- Q(e)10: Difusor cuadrado fijo estándar.

FINISH

- LB: White lacquer finish.

Order example: Q(e)10 6"x 6" - LB

- To order a 6" x 6" fixed square diffuser with a white lacquer finish, you should request:

Order	Description
1 Diffuser Q(e)10 6"x 6" - LB	6" x 6" fixed square diffuser with a white lacquer finish.

Order example: Q(e)10C 8"x 8" - ALU

- To order a 8" x 8" fixed square diffuser made of anodized aluminum with adjustable airflow damper (opposing blades), you should request:

Order	Description
1 Difusser Q(e)10C 8"x 8" - Alu	8" x 8" fixed square diffuser made of anodized aluminum with adjustable airflow damper.



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