



Serie QRF-N



FIXED SQUARE
ROTATIONAL DIFFUSER
WITH COLLAR



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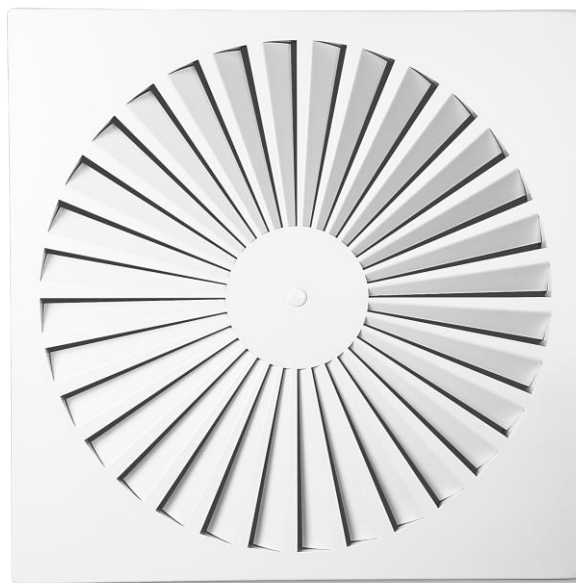


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FIXED SQUARE ROTATIONAL DIFFUSER WITH COLLAR SERIE QRF-N



MODELS

QRF-N 200/300/300x300

Square swirl/rotational diffuser 300x300 mm in sheet steel with collar and fixed blades for an average flow rate of 200 m³/h.

QRF-N 300/400/400x400

Square swirl/rotational diffuser 400x400 mm in sheet steel with collar and fixed blades for an average flow rate of 300 m³/h.

QRF-N 500/500/500x500

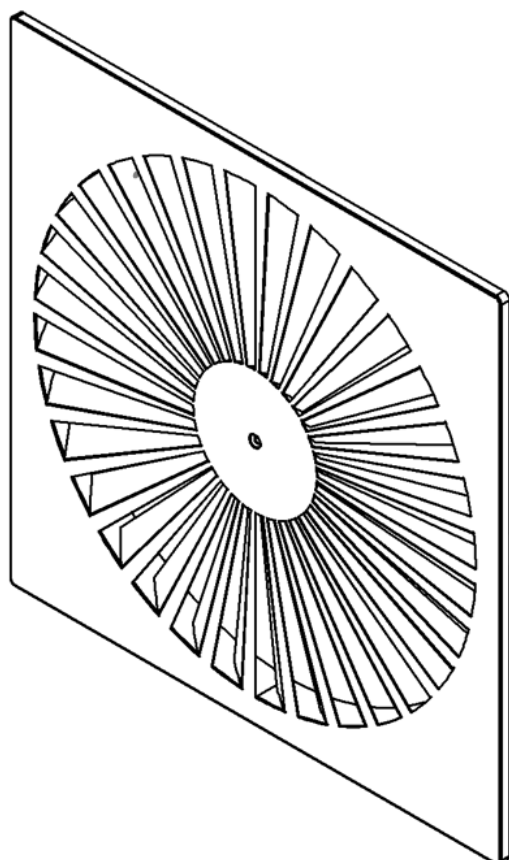
Square swirl/rotational diffuser 500x500 mm in sheet steel with collar and fixed blades for an average flow rate of 500 m³/h.

QRF-N 600/600/600x600

Square swirl/rotational diffuser 600x600 mm in sheet steel with collar and fixed blades for an average flow rate of 600 m³/h.

QRF-N 600/600/625x625

Square swirl/rotational diffuser 625x625 mm in sheet steel with collar and fixed blades for an average flow rate of 600 m³/h.



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SERIE QRF-N

FEATURES

Our QRF-N swirl/rotational diffuser is made of sheet steel, lacquered with epoxy paint. The collar and fixed blades are the same color as the steel plate. On request, they can also be manufactured in 600x600 mm or 625x625 mm plate.

FINISH

- **WHITE LACQUERED** diffuser.
- On request, it can be manufactured in other colors of the **RAL CHART**.

FIXING SYSTEM

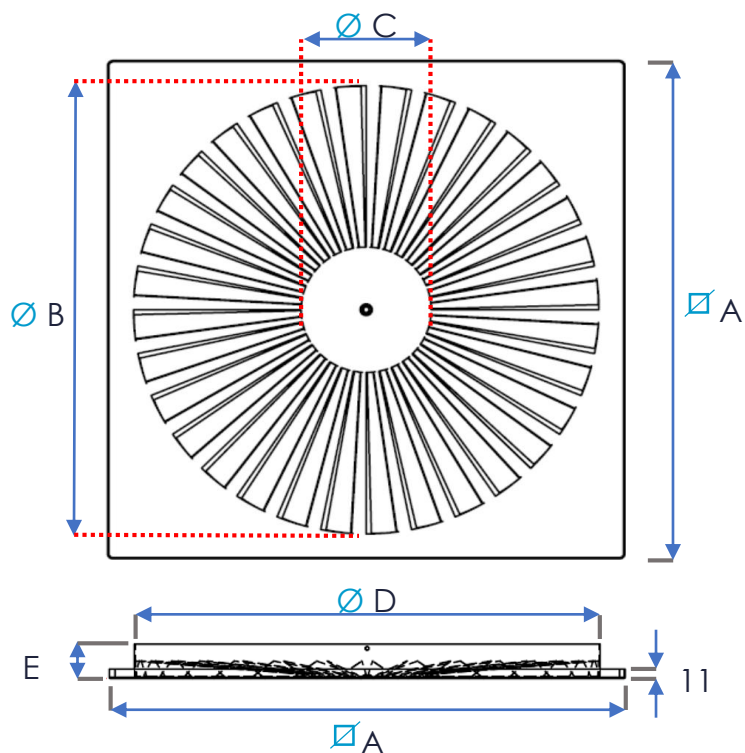
- By means of screw for central fixing.

ACCESSORIES

- **PM:** Mounting crossbar.
- **PRPE:** Polystyrene plenum with regulation and equalizer plate.
- **PLERAIS:** Insulated sheet metal plenum with adjustment and equalizer plate.
- **PLER:** Uninsulated sheet metal plenum with regulation and equalizer plate.

FIXED SQUARE ROTATIONAL DIFFUSER WITH COLLAR SERIE QRF-N

DIMENSIONS



***Note:** example of model description: “**QRF-N 200 / 300 / 300x300**”

1. **200:** reference name.
2. **300:** blade assembly circumference.
3. **300x300:** plate measurement.

*Measurements in millimeters (mm)

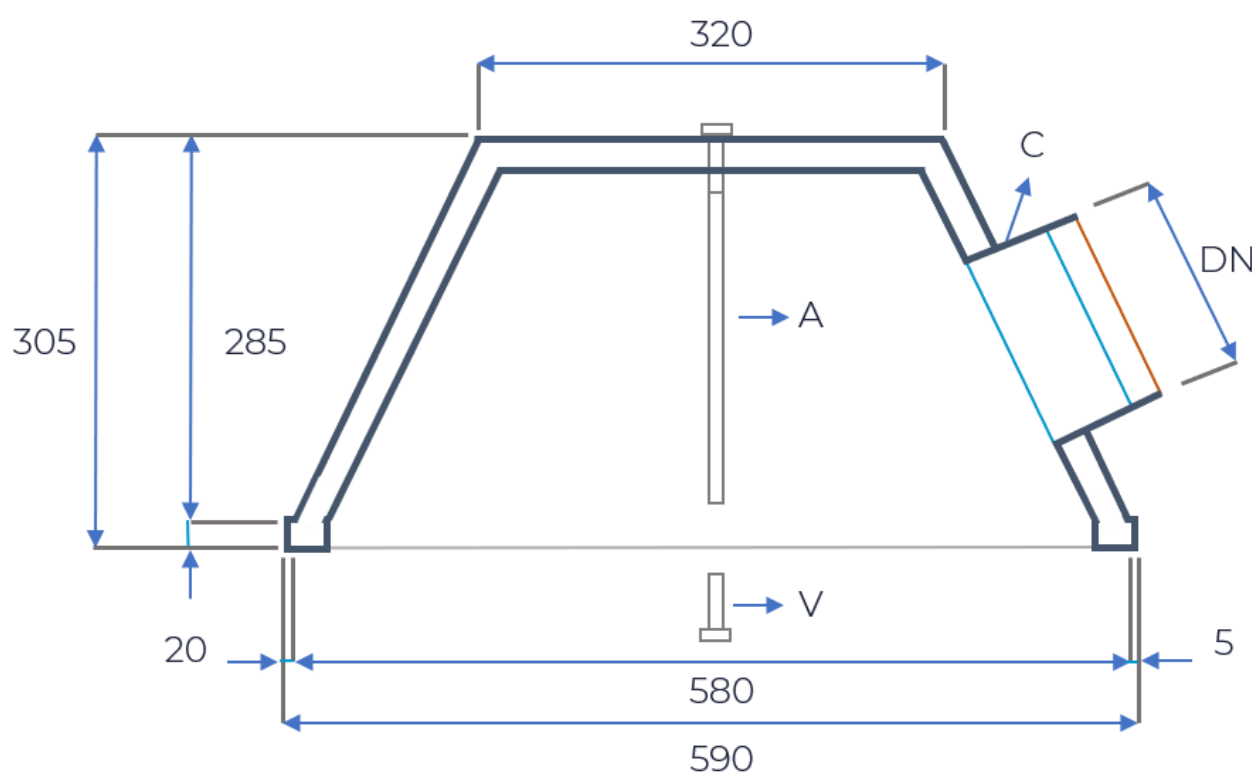
MODELO	$\square A$	$\varnothing B$	$\varnothing C$	$\varnothing D$	N° Blades	E
QRF-N 200/300/300x300	298	236	100	238	28	41
QRF-N 300/400/400x400	398	336	150	338	30	41
QRF-N 500/500/500x500	498	436	150	438	32	41
QRF-N 200/300/600x600	596	236	100	238	28	41
QRF-N 300/400/600x600	596	336	150	338	30	41
QRF-N 500/500/600x600	596	436	150	438	32	41
QRF-N 600/600/600x600	596	536	150	538	32	22
QRF-N 200/300/625x625	623	236	100	238	28	41
QRF-N 300/400/625x625	623	336	150	338	30	41
QRF-N 500/500/625x625	623	436	150	438	32	41
QRF-N 600/600/625x625	623	536	150	538	32	22

PLENUM INSTALLATION

POLYSTYRENE PLENUM (PRPE)

The polystyrene plenum (PRPE) is made of printed polystyrene, with a density of 45 Kg/mc, class 1 fireproof and crystallized on the inside. The transformation process, together with the characteristics of the material, make PRPE a compact and lightweight plenum.

Designed to be used with panel diffusers or grilles of nominal dimensions 595x595mm, in standard version, it is supplied with connection port for flexible duct "C" (in sizes DN Ø150, Ø160, Ø200 and Ø 250), with adjustment damper with lever control to regulate the air flow and air equalizer plate.

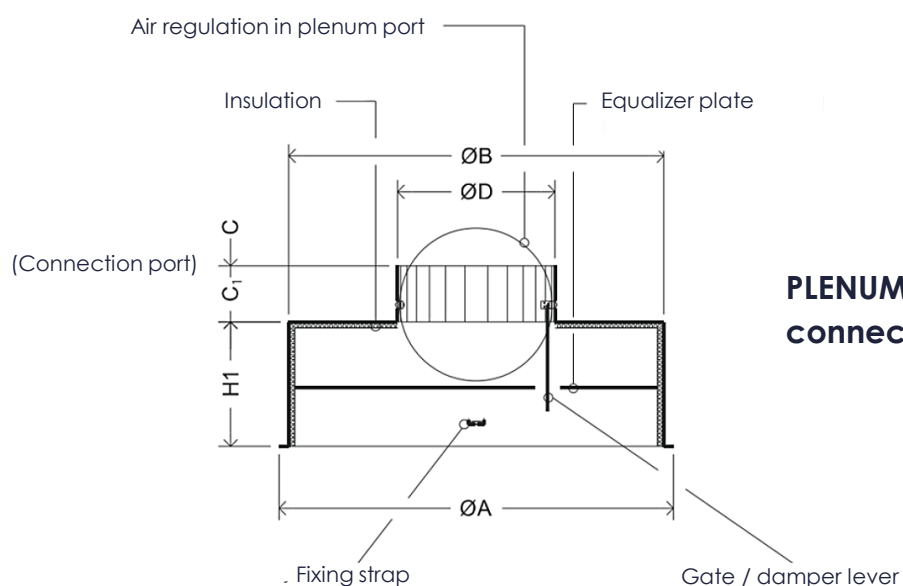
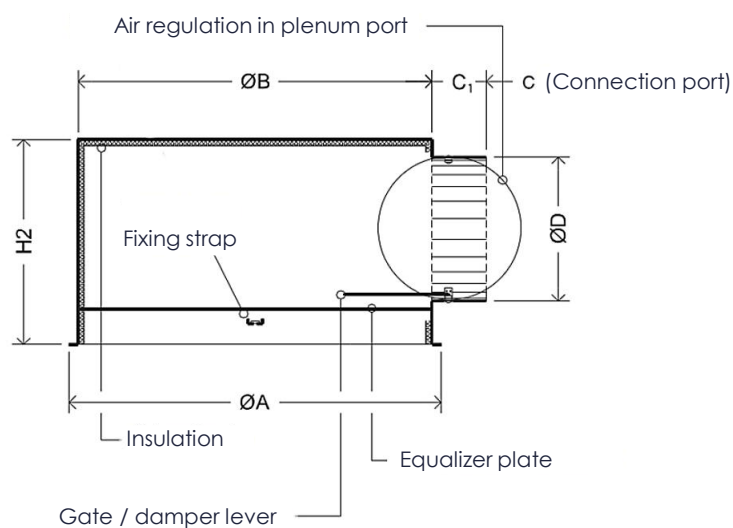


The polystyrene plenum (PRPE) is only compatible with **600x600** mm and **625x625** mm diffusers.

FIXED SQUARE ROTATIONAL DIFFUSER WITH COLLAR SERIE QRF-N

Installation by Plenum:

PLENUM with lateral connection port (PLER_L)



PLENUM with upper connection port (PLER_S)

DIMENSION TABLE FOR PLENUM

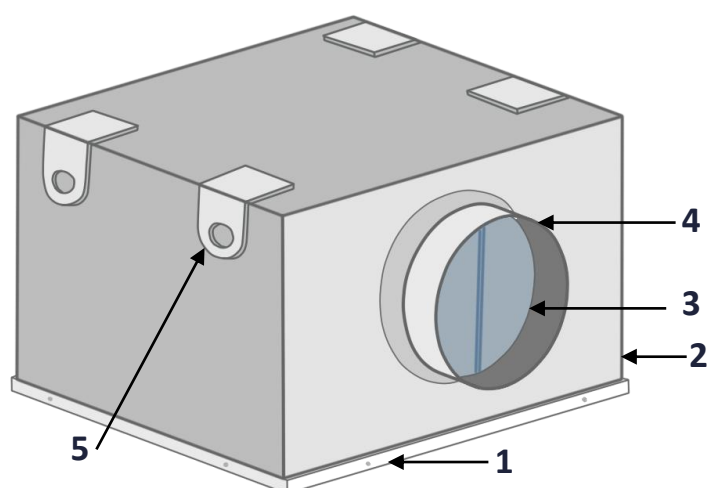
PLENUM	Dimensions	AxB	LxM	C	C1	ØD	H1 (PLER_S)	H2 (PLER_L)
PLER300	296x296	290	260	60	90	121	150	250
PLER400	396x396	390	360	60	90	196	200	350
PLER500	496x496	490	460	60	90	196	200	350
PLER600	596x596	590	560	60	90	246	200	350
PLER625	621x621	615	585	60	90	246	200	350

FIXED SQUARE ROTATIONAL DIFFUSER WITH COLLAR SERIE QRF-N

INSTALLATION DETAILS

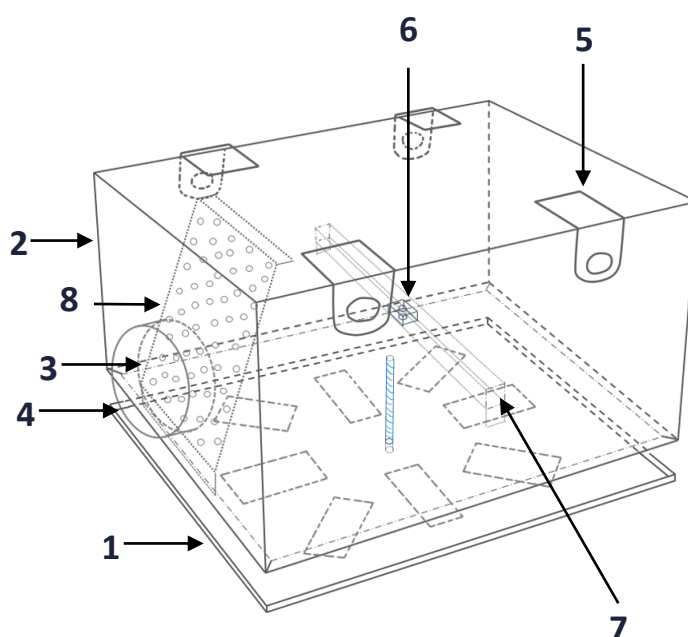
INSTALLATION DETAIL BY MEANS OF PLENUM BOX (PLER & PLERAIS)

The plenum will be suspended from the floor slab by means of threaded rods or steel cables specially designed for this purpose.



- 1. Rotational diffuser.
- 2. Plenum box.
- 3. Regulation at the connection port.
- 4. Connection port.

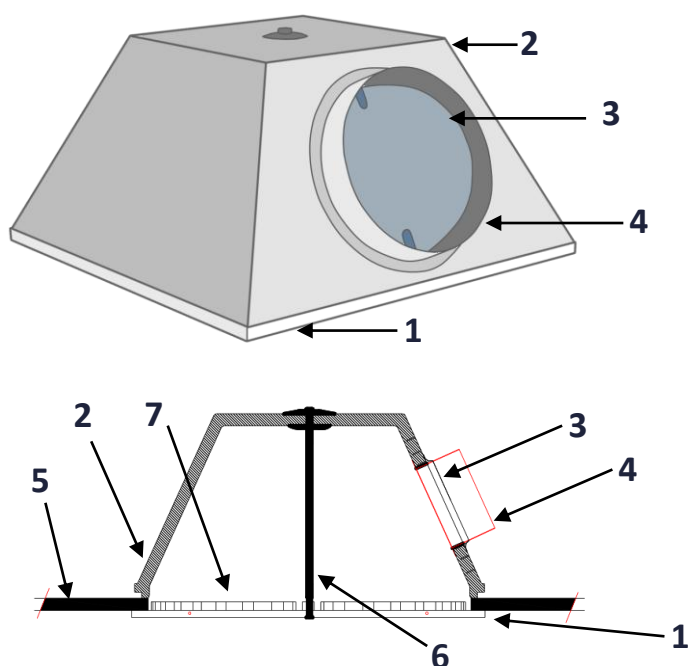
- 5. Hanging cards.
- 6. Caged nut.
- 7. Fixing strap.
- 8. Equalizer plate.



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POLYSTYRENE PLENUM BOX INSTALLATION DETAIL (PRPE)

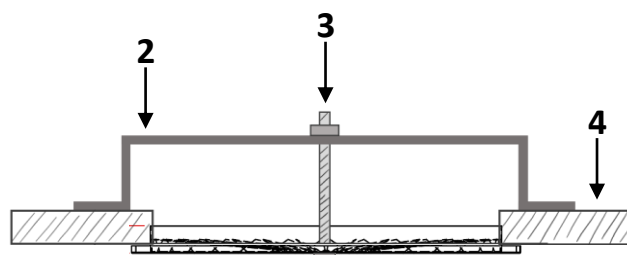
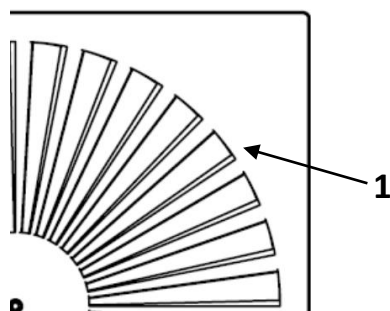
Fixing: Once the diffuser has been fixed to the plenum by means of the screw to the central post, the plenum can be positioned on the false ceiling structure (see PRPE SERIES data sheet).



- 1. Rotational diffuser.
- 2. Plenum box.
- 3. Regulation at the connection port.
- 4. Connection port.
- 5. Ceiling.
- 6. Screw and central post.
- 7. Movable blades.

MOUNTING CROSSBAR INSTALLATION DETAIL (PMR)

- 1. Movable blades.
- 2. Ceiling mounting crossbar without plenum.
- 3. Screw for crossbar.
- 4. Ceiling.



FIXED SQUARE ROTATIONAL DIFFUSER WITH COLLAR SERIE QRF-N

QUICK SELECTION TABLE

	MODEL	200/300	300/400	500/500	600/600
m ³ /h					
100	Alc I db(A) Δ P	1.15 <20 0.33	0.85 <20 0.22		
150	Alc I db(A) Δ P	1.8 30 0.75	1.34 21 0.49	0.88 <20 0.25	
200	Alc I db(A) Δ P	2.47 39 1.33	1.84 28 0.88	1.23 <20 0.44	
250	Alc I db(A) Δ P	3.15 45 2.07	2.36 34 1.37	1.59 22 0.68	1.01 <20 0.3
300	Alc I db(A) Δ P		2.88 38 1.97	1.95 27 0.98	1.25 <20 0.43
350	Alc I db(A) Δ P		3.42 42 2.69	2.33 31 1.34	1.5 21 0.59
400	Alc I db(A) Δ P		3.97 46 3.51	2.72 34 1.75	1.76 25 0.77
450	Alc I db(A) Δ P			3.11 38 2.21	2.03 29 0.97
500	Alc I db(A) Δ P			3.51 40 2.73	2.3 32 1.2
600	Alc I db(A) Δ P			4.32 45 3.93	2.86 37 1.73
700	Alc I db(A) Δ P				3.43 41 2.35
800	Alc I db(A) Δ P				4.03 45 3.07
900	Alc I db(A) Δ P				
1.000	Alc I db(A) Δ P				
1.200	Alc I db(A) Δ P				

Alc I: Air supply range (m)

db(A): Sound level without regulation

Δ P: Static pressure drop (mm c.a)

FIXED SQUARE ROTATIONAL DIFFUSER WITH COLLAR SERIE QRF-N

Serie	Model	
	200/300/300x300	200/300/600x600
	300/400/400x400	200/300/625x625
QRF-N	500/500/500x500	300/400/600x600
	600/600/600x600	300/400/625x625
	600/600/625x625	500/500/600x600
		500/500/625x625

Acabados
LB
RAL

Accessories
PM
PLER
PLERAIS
PRPE

QRF-N300/400/400X400 – LB + PM

DESCRIPTION

SERIE

- QRF-N: Square rotational diffuser with collar and fixed blades.

MODEL

- QRF300/400/400x400: Square rotational diffuser 400x400 mm with collar and fixed blades for an average flow rate of 300 m³/h.

FINISH

- LB: White lacquered.

ACCESSORIES (optional)

- PM: Mounting crossbar for QRF-N 300/400/400x400.

Order example: QRF-N300/400/400x400-LB+PM

- To order a square rotational diffuser 400x400 mm with collar and fixed blades for an average flow rate of 300 m³/h, white lacquered with mounting crossbar, you should request:

Order	Description
1 Diffuser QRF-N 300/400/400x400-LB	Square rotational diffuser 400x400 mm with collar and fixed blades for an average flow rate of 300 m³/h, white lacquered
1 Crossbar PM400	Mounting crossbar for QRF-N 300/400/400x400

Order example: QRF-N200/300/300x300-LB + PLER

- To order a square rotational diffuser 300x300 mm with collar and fixed blades for an average flow rate of 200 m³/h, white lacquered and uninsulated lateral connection plenum, you should request:

Order	Description
1 Diffuser QRF-N 200/300/300x300-LB	Square rotational diffuser 300x300 mm with collar and fixed blades for an average flow rate of 200 m³/h, white lacquered
1 Plenum PLER300	Uninsulated lateral connection plenum for QRF-N 200/300/300x300.



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