



Serie QCTRAD

RADIAL - ROTATIONAL
CIRCULAR DIFFUSER



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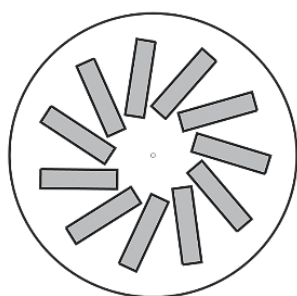


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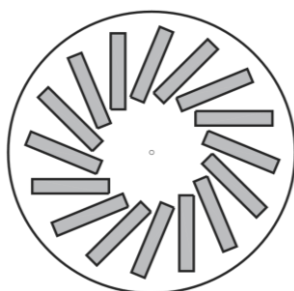
MODELS

Radial - rotational circular diffuser manufactured in white lacquered steel plate. On request they can also be manufactured in Ø600mm, Ø625mm or Ø800mm plate.

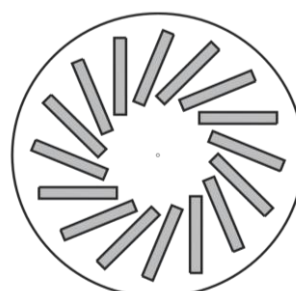
QCTRAD 100/300/300



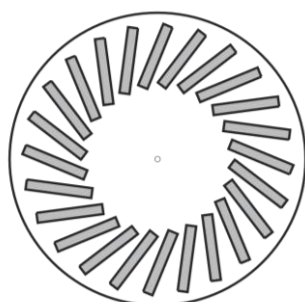
QCTRAD 200/400/400



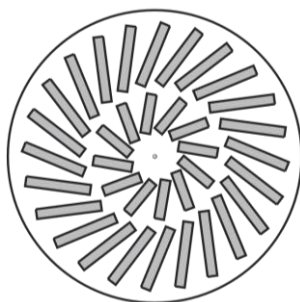
QCTRAD 300/500/500



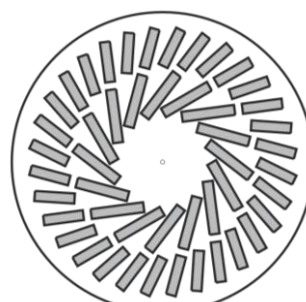
QCTRAD 500/600/600



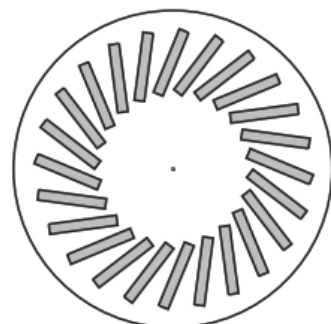
QCTRAD 800/600/600



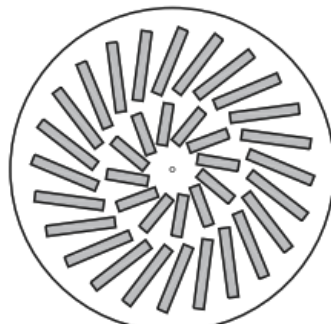
QCTRAD 1000/600/600



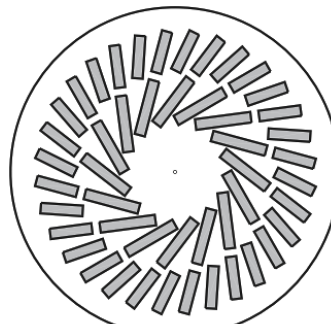
QCTRAD 500/600/625



QCTRAD 800/600/625



QCTRAD 1000/600/625

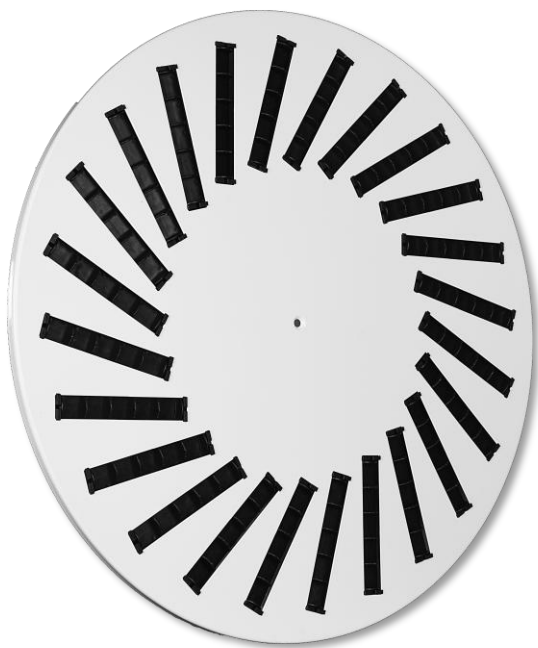


***Nota:** example of model description: "QCTRAD 200 / 400 / 400"

1. **200:** reference name.
2. **400:** blade assembly circumference.
3. **400:** plate measurement.

RADIAL-ROTATIONAL CIRCULAR DIFFUSER SERIE QCTRAD

APPLICATION

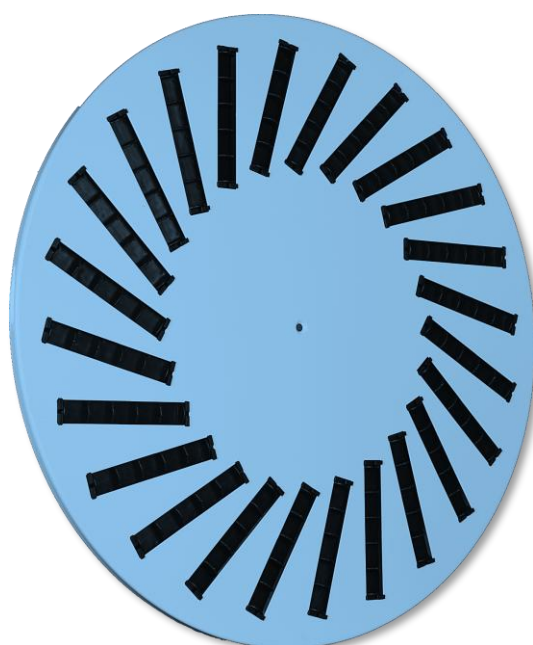


Our radial – swirl/rotational circular diffusers are designed for air distribution in rooms with heights between 2.80 and 4 m. They are suitable for ventilation, heating and cooling installations.

They are particularly suitable where there is a danger of hot air stratification. This is due to the arrangement of the drive slots and the design of the rotating blade, which gives it a high induction power.

This minimizes the temperature difference between the air under the ceiling and the air above the floor.

Swirl / rotational diffusers are also recommended when it is necessary to be able to vary or fix the horizontal or vertical discharge. Thanks to their rotating blades, they can be positioned according to what is of interest in each case or in each season of the year. They can even be used for mixed air supply, with the outer slots being horizontal and the inner slots vertical.



RADIAL-ROTATIONAL CIRCULAR DIFFUSER

SERIE QCTRAD

ACCESSORIES

- Mounting crossbar.
- Insulated lateral connection plate plenum with regulation and equalizer plate.
- Insulated upper connection plate plenum with regulation and equalizer plate.

FINISH (Diffuser)

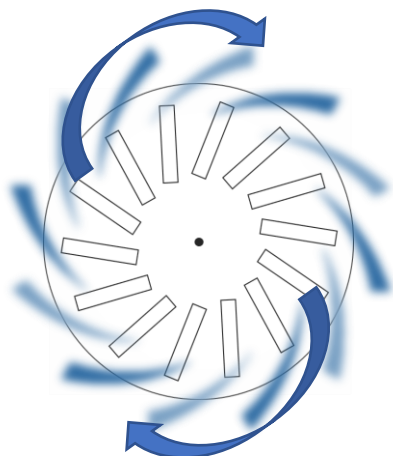
- Difusor rotacional **LACADO EN BLANCO**.
- Bajo pedido, se puede fabricar en otros colores de la **CARTA RAL**.

FINISH (Blades)

- Plastic blades in **BLACK (STANDARD)**.

AIR IMPULSE DIRECTION

Depending on the arrangement of the blades, we will achieve different effects in the air impulsion.

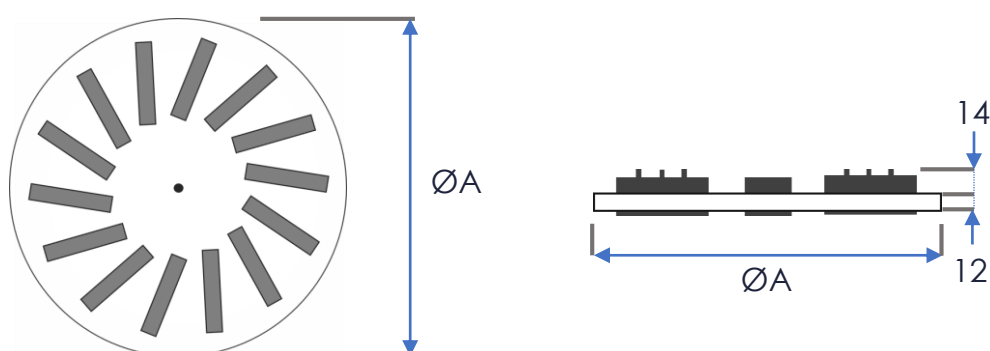


RADIAL-ROTATIONAL CIRCULAR DIFFUSER SERIE QCTRAD

CONSTRUCTION FEATURES AND DIMENSIONS

Its special design provides a perfect integration in the ceilings. All this, together with their modern aesthetics, give the installations a very attractive finish.

- **Base plate:** Made of galvanized steel, dimensions according to model, normally lacquered in white. Other colors are available upon request.
- **Blades:** Swivel and adjustable from the outside, made of black ABS.

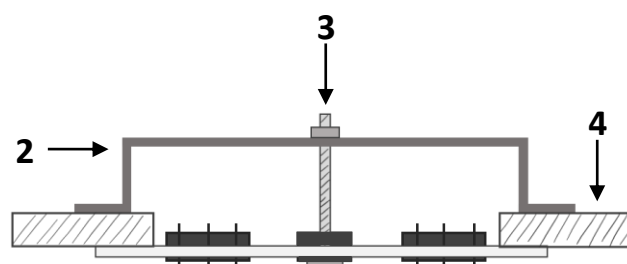
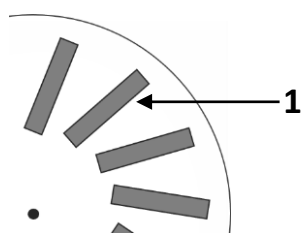


QCTRAD	100/300/300	200/400/400	300/500/500	500/600/600 800/600/600 1000/600/600	500/600/625 800/600/625 1000/600/625
ØA	296	396	496	596	621

INSTALLATION

Installation by means of a mounting crossbar:

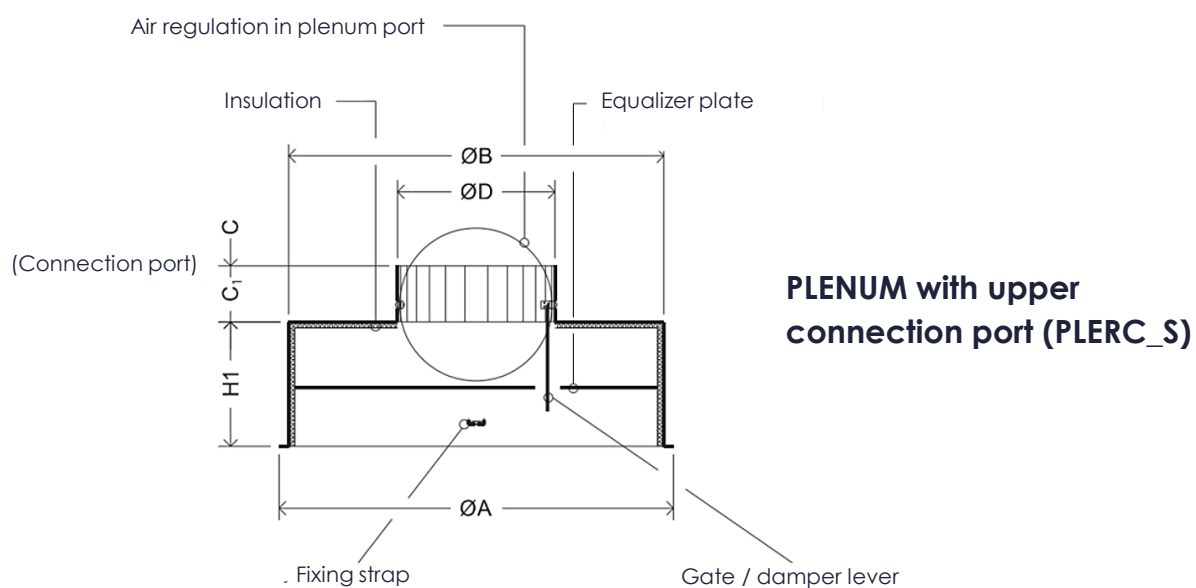
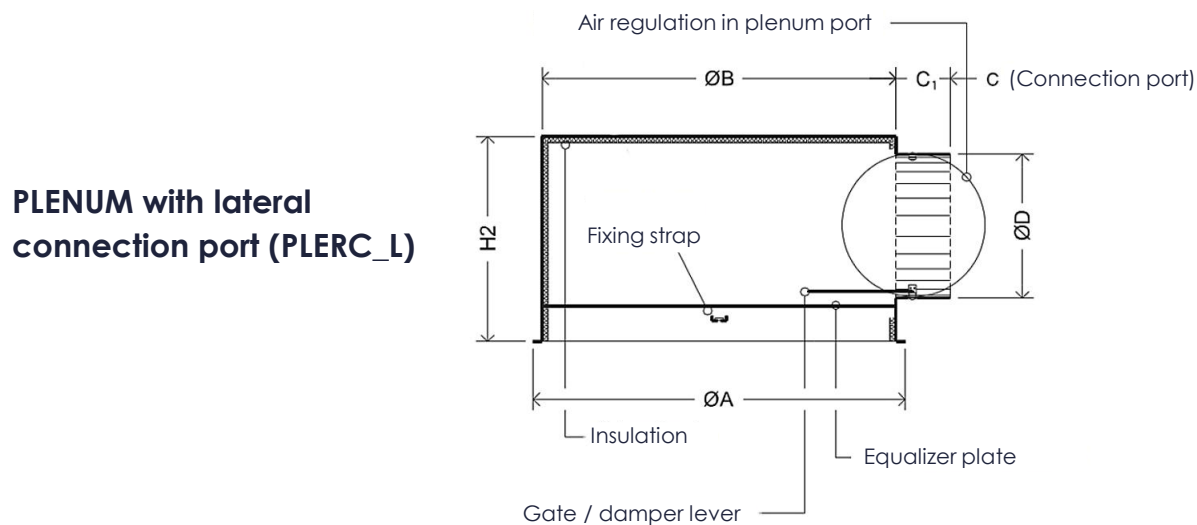
1. Movable blades.
2. Ceiling mounted crossbar without plenum.
3. Screw for mounting crossbar.
4. Ceiling.



QCTRAD	100/300/300	200/400/400	300/500/500	500/600/600 800/600/600 1000/600/600	500/600/625 800/600/625 1000/600/625
PMR	PMR300	PMR400	PMR500	PMR600	PMR625

RADIAL-ROTATIONAL CIRCULAR DIFFUSER SERIE QCTRAD

Installation by Plénum:



DIMENSIONS TABLE FOR PLENUM

PLENUM	Dimensions	ØA	ØB	C	C1	ØD	H1 (PLERC_S)	H2 (PLERC_L)
PLERC300	296	280	260	60	90	121	150	250
PLERC400	396	380	160	60	90	196	200	300
PLERC500	496	480	460	60	90	196	200	300
PLERC600	596	580	560	60	90	246	200	300
PLERC625	621	605	585	60	90	246	200	300

RADIAL-ROTATIONAL CIRCULAR DIFFUSER SERIE QCTRAD

QUICK SELECTION TABLE

Q (m³/h)	Model QCTRAD:		100/300/300			200/400/400			300/500/500			500/600/600 500/600/625			800/600/600 800/600/625			1000/600/600 1000/600/625			
	Diffuser center-to-center distance (m)		1,2	1,8	2,7	1,2	1,8	2,7	1,2	1,8	2,7	1,2	1,8	2,7	1,2	1,8	2,7	1,2	1,8	2,7	
50	Speed in occupied zone	H = 2,7 m	0,04	0,05	0,04																
		H = 3,2 m	0,03	0,03	0,03																
		H = 3,8 m	0,03	0,03	0,02																
	Total ΔP (Pa)		7																		
	Sound level (dB)		< 15																		
150	Speed in occupied zone	H = 2,7 m	0,12	0,13	0,11	0,09	0,11	0,08	0,08	0,09	0,07										
		H = 3,2 m	0,08	0,09	0,07	0,06	0,07	0,05	0,05	0,06	0,04										
		H = 3,8 m	0,06	0,06	0,06	0,04	0,05	0,03	0,03	0,04	0,03										
	Total ΔP (Pa)		24			4			3												
	Sound level (dB)		25			< 15			< 15												
250	Speed in occupied zone	H = 2,7 m	0,19	0,21	0,18	0,14	0,18	0,13	0,13	0,15	0,12										
		H = 3,2 m	0,13	0,14	0,12	0,09	0,12	0,08	0,08	0,10	0,07										
		H = 3,8 m	0,09	0,10	0,09	0,06	0,08	0,06	0,06	0,07	0,05										
	Total ΔP (Pa)		45			12			7												
	Sound level (dB)		41			29			19												
350	Speed in occupied zone	H = 2,7 m	0,26	0,33	0,22	0,20	0,26	0,18	0,18	0,21	0,16	0,15	0,18	0,13	0,13	0,16	0,11				
		H = 3,2 m	0,15	0,20	0,13	0,13	0,16	0,11	0,12	0,14	0,10	0,10	0,11	0,09	0,08	0,10	0,07				
		H = 3,8 m	0,10	0,13	0,08	0,09	0,11	0,08	0,08	0,09	0,07	0,07	0,08	0,06	0,06	0,07	0,05				
	Total ΔP (Pa)		47			23			14			6			5						
	Sound level (dB)		48			38			28			17			< 15						
500	Speed in occupied zone	H = 2,7 m				0,29	0,36	0,25	0,26	0,31	0,23	0,21	0,25	0,19	0,18	0,22	0,16	0,16	0,17	0,13	
		H = 3,2 m				0,18	0,23	0,16	0,17	0,19	0,15	0,14	0,16	0,12	0,11	0,14	0,10	0,10	0,11	0,08	
		H = 3,8 m				0,13	0,16	0,11	0,12	0,13	0,10	0,10	0,11	0,09	0,08	0,10	0,07	0,07	0,07	0,06	
	Total ΔP (Pa)					47			28			12			10			4			
	Sound level (dB)					48			38			27			24			< 15			
650	Speed in occupied zone	H = 2,7 m							0,34	0,40	0,30	0,28	0,33	0,25	0,24	0,28	0,21	0,21	0,22	0,18	
		H = 3,2 m							0,22	0,25	0,19	0,18	0,20	0,16	0,15	0,18	0,13	0,13	0,14	0,11	
		H = 3,8 m							0,15	0,18	0,13	0,12	0,14	0,11	0,10	0,12	0,09	0,09	0,10	0,08	
	Total ΔP (Pa)								48			20			18			8			
	Sound level (dB)								46			35			32			21			
800	Speed in occupied zone	H = 2,7 m										0,34	0,41	0,31	0,29	0,35	0,25	0,26	0,27	0,22	
		H = 3,2 m										0,22	0,25	0,19	0,18	0,22	0,16	0,16	0,17	0,14	
		H = 3,8 m										0,15	0,18	0,14	0,13	0,15	0,11	0,11	0,12	0,09	
	Total ΔP (Pa)											30			27			11			
	Sound level (dB)											42			37			27			
900	Speed in occupied zone	H = 2,7 m										0,38	0,47	0,35	0,34	0,41	0,29	0,31	0,32	0,25	
		H = 3,2 m										0,19	0,31	0,22	0,22	0,27	0,19	0,19	0,19	0,16	
		H = 3,8 m										0,17	0,22	0,17	0,16	0,18	0,13	0,13	0,14	0,11	
	Total ΔP (Pa)											35			27			19			
	Sound level (dB)											42			39			32			
1000	Speed in occupied zone	H = 2,7 m													0,37	0,43	0,32	0,33	0,34	0,27	
		H = 3,2 m													0,23	0,27	0,2	0,2	0,21	0,17	
		H = 3,8 m													0,16	0,19	0,14	0,14	0,15	0,12	
	Total ΔP (Pa)														41			18			
	Sound level (dB)														44			33			
1250	Speed in occupied zone	H = 2,7 m																0,41	0,42	0,34	
		H = 3,2 m																0,26	0,26	0,21	
		H = 3,8 m																0,18	0,18	0,15	
	Total ΔP (Pa)																	28			
	Sound level (dB)																	39			
1600	Speed in occupied zone	H = 2,7 m																0,52	0,54	0,44	
		H = 3,2 m																0,33	0,34	0,28	
		H = 3,8 m																0,23	0,23	0,19	
	Total ΔP (Pa)																	46			
	Sound level (dB)																	46			

RADIAL-ROTATIONAL CIRCULAR DIFFUSER SERIE QCTRAD

QUICK SELECTION TABLE

Serie	Model			Finish	Accessories
	100/300/300	500/600/600	500/600/625	LB	PMR___
QCTRAD	200/400/400	800/600/600	800/600/625	RAL	PLERC_S
	300/500/500	1000/600/600	1000/600/625		PLERC_L
			1600/800/800		

QCTRAD-200/400/400 - LB + PMR

DESCRIPTION

SERIE

- QCTRAD: Radial-rotational circular diffuser.

MODEL

- QCTRAD200/400/400: radial-rotational circular diffuser, model 200/400/400 - Ø 396mm.

FINISH

- LB: White lacquered.

ACCESSORIES (optional)

- PMR400: Mounting crossbar for QCT-RAD 200/400/400.

Order example: QCTRAD200/400/400-LB+PMR400

- To order a radial-rotational circular diffuser, Ø 396mm white lacquered and mounting crossbar, you should request:

Order	Description
1 Diffuser QCTRAD 200/400/400-LB	Radial-rotational circular diffuser, Ø 396mm white lacquered.
1 Crossbar PMR400	Mounting crossbar for QCT-RAD 200/400/400.

Order example: QCTRAD100/300/300-LB + PLERC_L

- To order a radial-rotational circular diffuser, Ø 296mm white lacquered, and circular insulated lateral connection plenum, you should request:

Order	Description
1 Diffuser QCTRAD100/300/300-LB	Radial-rotational circular diffuser, Ø 296mm white lacquered.
1 Plenum PLERC300L	Circular insulated lateral connection plenum. Model PLERC300L with air regulation in connection port.



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