



Serie  
**QCT**

CIRCULAR ROTATIONAL DIFFUSER



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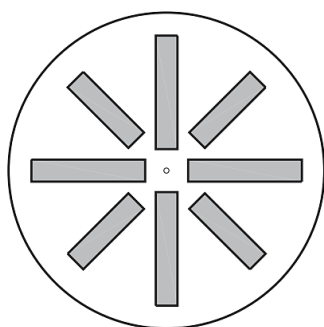


# CIRCULAR – ROTATIONAL DIFFUSER SERIE QCT

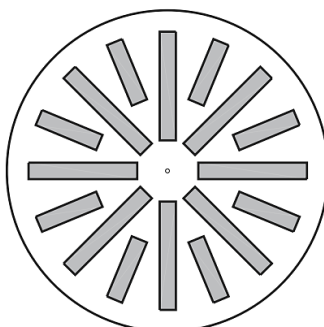
## MODELS

Circular swirl/rotational diffuser manufactured in white lacquered steel plate. On request they can also be manufactured in Ø600mm, Ø625mm or Ø800mm plate.

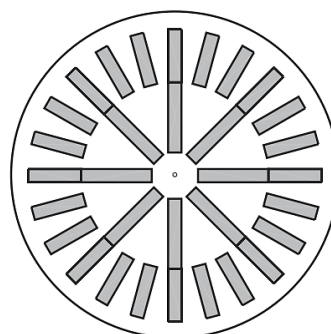
**QCT100/300/300**



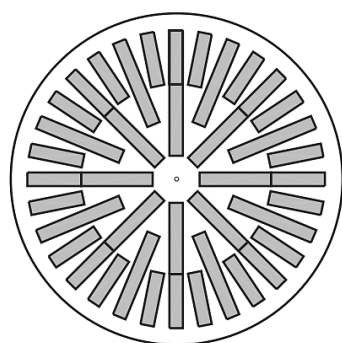
**QCT200/400/400**



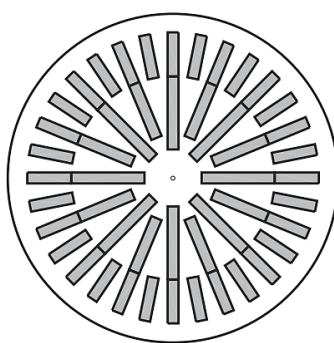
**QCT500/500/500**



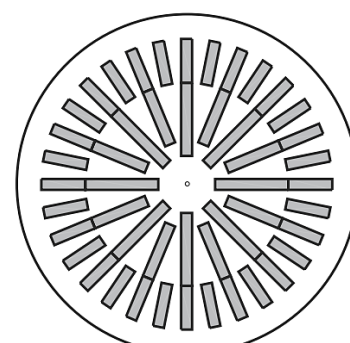
**QCT800/500/500**



**QCT1000/600/600**



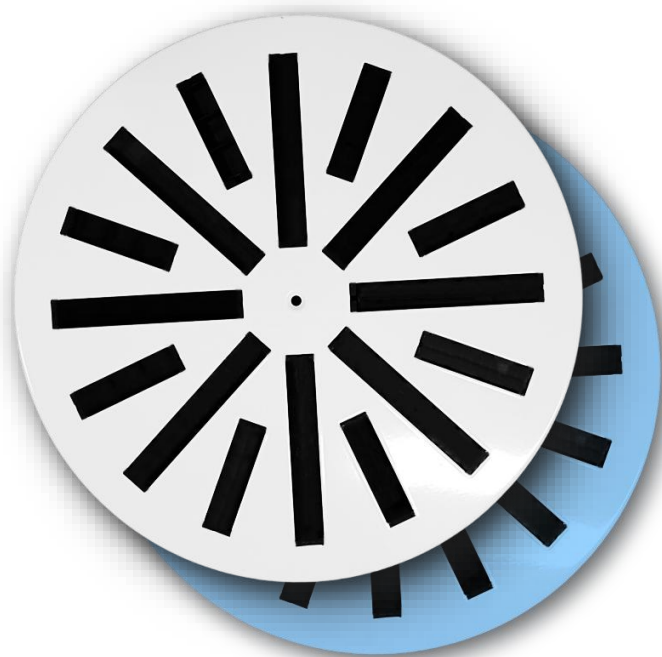
**QCT1000/600/625**



**\*Note:** example of model description: “QCT 200 / 400 / 400”

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

## APPLICATION

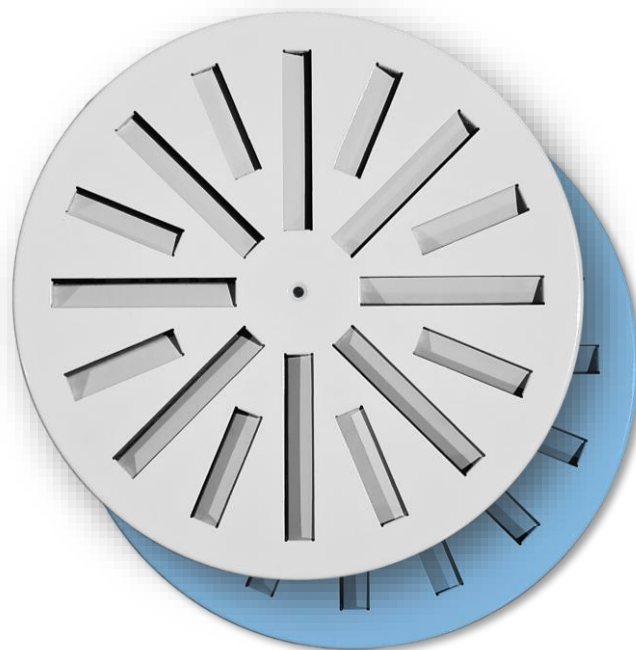


Our swirl / rotational diffusers are designed for air distribution in rooms with heights between 2.80 and 4 m. They are suitable for ventilation, heating and cooling installations.

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.



## CIRCULAR – ROTATIONAL DIFFUSER SERIE QCT

### 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)

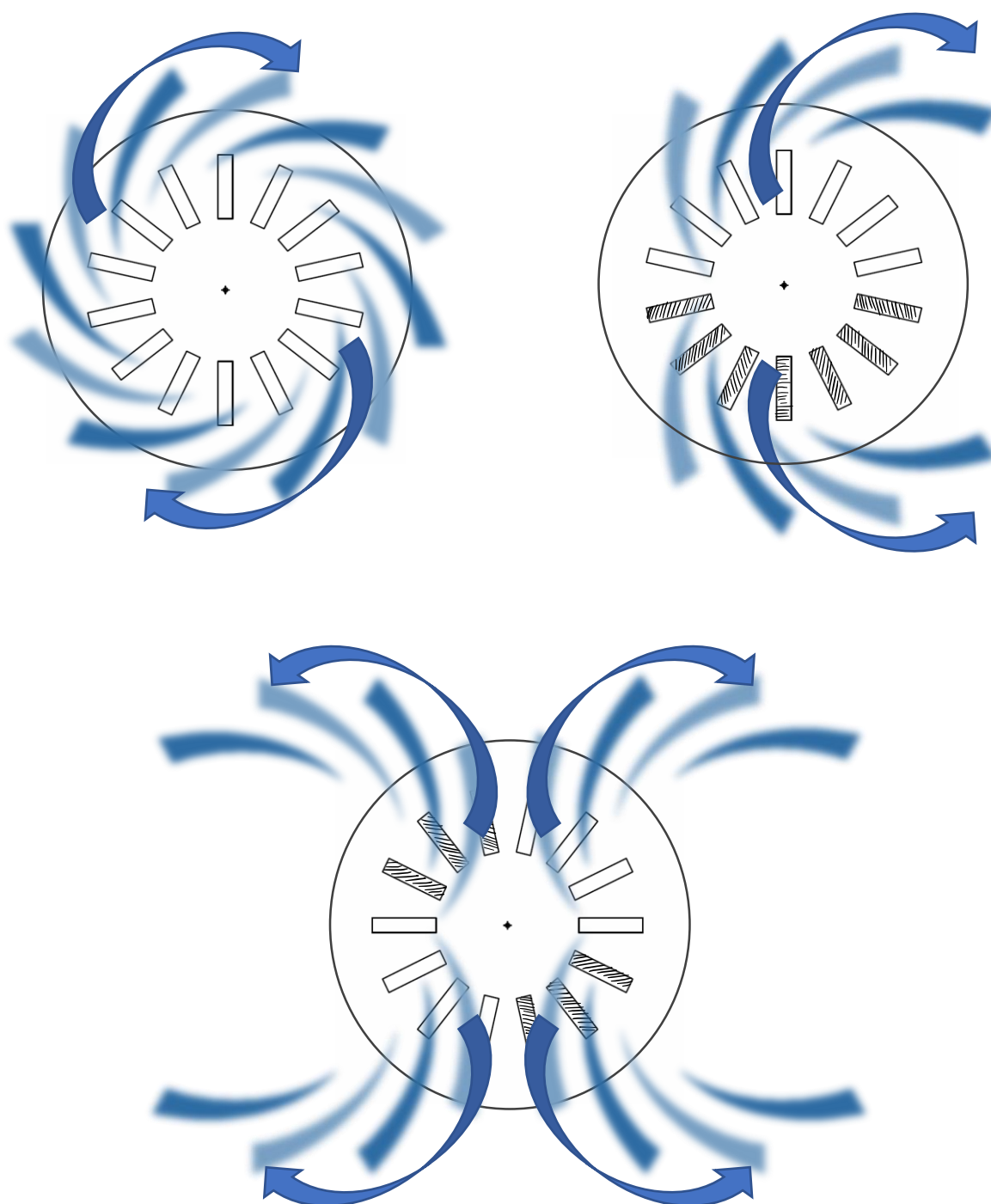
- Difusor rotacional **LACADO EN BLANCO**.
- Bajo pedido, se puede fabricar en otros colores de la **CARTA RAL**.

### FINISH (Blades)

- Plastic blades in **BLACK (STANDARD)**.
- Special execution: On request, the blades can be manufactured in white plastic, or in white or black aluminum (check availability).

## AIR IMPULSE DIRECTION

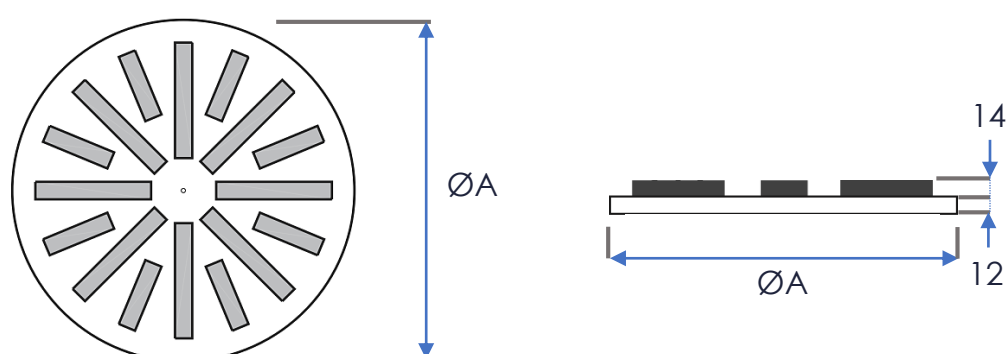
Depending on the arrangement of the blades, we will achieve different effects in the air impulsion.



## 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.

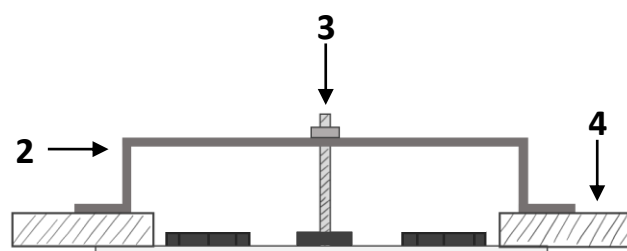
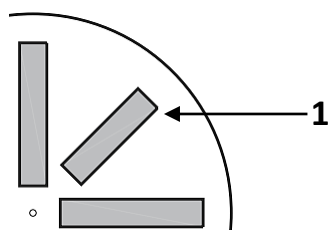


| QCT | 100/300/300 | 200/400/400 | 500/500/500 | 800/500/500 | 1000/600/600 | 1000/600/625 |
|-----|-------------|-------------|-------------|-------------|--------------|--------------|
| ØA  | 296         | 396         | 496         | 496         | 596          | 621          |

## INSTALLATION

Installation by means of a mounting crossbar:

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

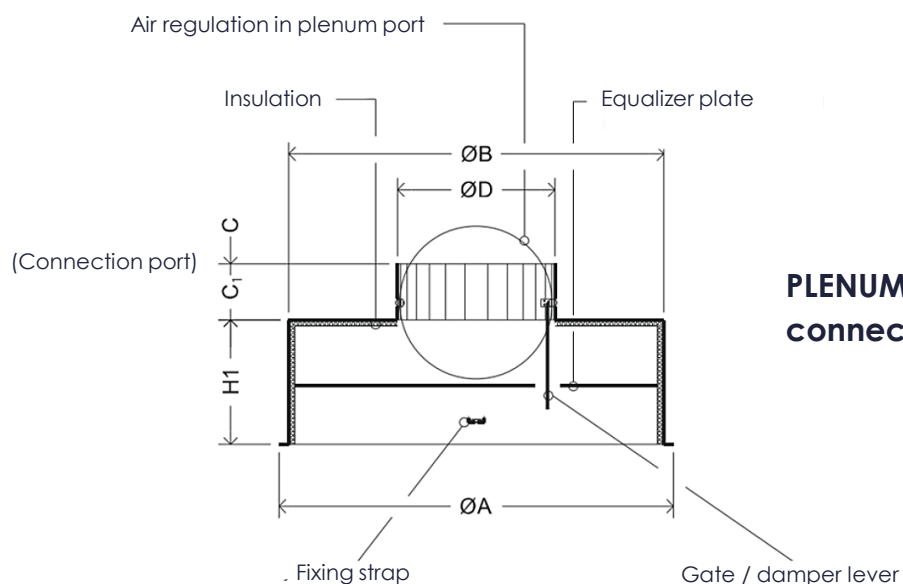
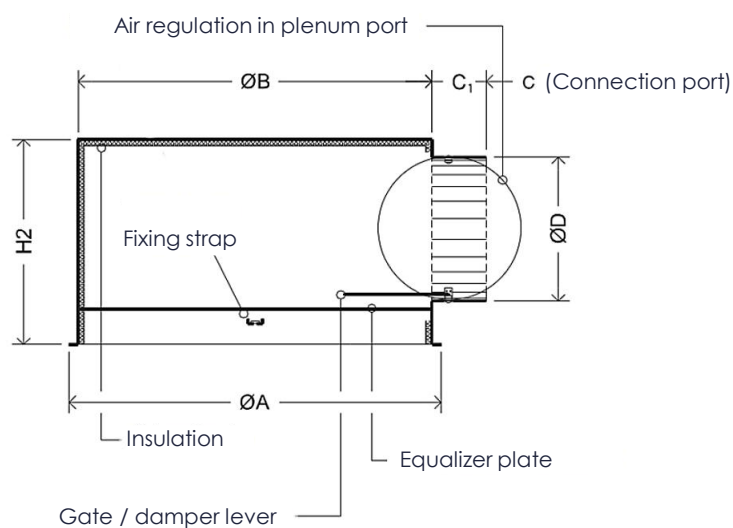


| QCT | 100/300/300 | 200/400/400 | 500/500/500 | 800/500/500 | 1000/600/600 | 1000/600/625 |
|-----|-------------|-------------|-------------|-------------|--------------|--------------|
| PMR | PMR300      | PMR400      | PMR500      | PMR500      | PMR600       | PMR625       |

# CIRCULAR – ROTATIONAL DIFFUSER SERIE QCT

Installation by Plénum:

**PLENUM with lateral  
connection port (PLERC\_L)**



**PLENUM with upper  
connection port (PLERC\_S)**

**DIMENSION TABLE FOR PLENUM**

| PLENUM   | Dimensions | ØA  | ØB  | C  | C1 | ØD  | H1<br>(PLERC_S) | H2<br>(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             |

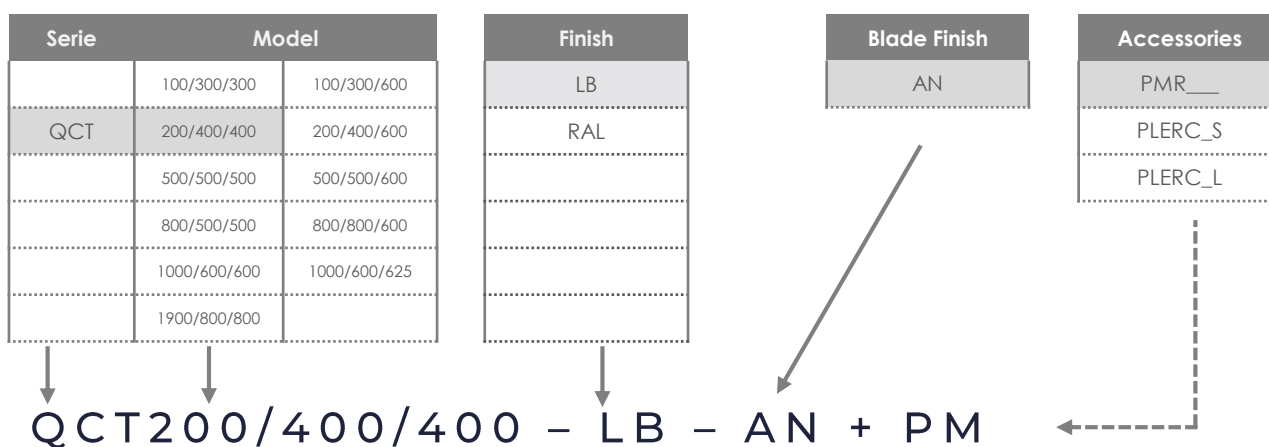
# CIRCULAR – ROTATIONAL DIFFUSER SERIE QCT

## QUICK SELECTION TABLE

| Q (m³/h) | Model                                  |           | QCT 100/_/_ |      |      | QCT 200/_/_ |      |      | QCT 500/_/_ |      |      | QCT 800/_/_ |       |      | QCT 1000/_/_ |      |      |  |
|----------|----------------------------------------|-----------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|-------|------|--------------|------|------|--|
|          | 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  |  |
| 50       | Speed in occupied zone                 | H = 2,7 m | 0,05        | 0,06 | 0,05 |             |      |      |             |      |      |             |       |      |              |      |      |  |
|          |                                        | H = 3,2 m | 0,04        | 0,04 | 0,04 |             |      |      |             |      |      |             |       |      |              |      |      |  |
|          |                                        | H = 3,8 m | 0,04        | 0,04 | 0,03 |             |      |      |             |      |      |             |       |      |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 5           |      |      |             |      |      |             |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | < 20        |      |      |             |      |      |             |      |      |             |       |      |              |      |      |  |
| 150      | Speed in occupied zone                 | H = 2,7 m | 0,14        | 0,17 | 0,14 | 0,08        | 0,10 | 0,07 |             |      |      |             |       |      |              |      |      |  |
|          |                                        | H = 3,2 m | 0,11        | 0,13 | 0,10 | 0,05        | 0,06 | 0,04 |             |      |      |             |       |      |              |      |      |  |
|          |                                        | H = 3,8 m | 0,11        | 0,11 | 0,11 | 0,03        | 0,05 | 0,02 |             |      |      |             |       |      |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 34          |      |      | 6           |      |      |             |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 35          |      |      | < 20        |      |      |             |      |      |             |       |      |              |      |      |  |
| 250      | Speed in occupied zone                 | H = 2,7 m |             |      |      | 0,15        | 0,19 | 0,14 |             |      |      |             |       |      |              |      |      |  |
|          |                                        | H = 3,2 m |             |      |      | 0,10        | 0,13 | 0,09 |             |      |      |             |       |      |              |      |      |  |
|          |                                        | H = 3,8 m |             |      |      | 0,07        | 0,09 | 0,07 |             |      |      |             |       |      |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 21          |      |      |             |      |      |             |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 24          |      |      |             |      |      |             |      |      |             |       |      |              |      |      |  |
| 350      | Speed in occupied zone                 | H = 2,7 m |             |      |      | 0,22        | 0,28 | 0,20 | 0,17        | 0,20 | 0,15 | 0,12        | 0,15  | 0,10 |              |      |      |  |
|          |                                        | H = 3,2 m |             |      |      | 0,15        | 0,18 | 0,13 | 0,12        | 0,13 | 0,11 | 0,07        | 0,09  | 0,06 |              |      |      |  |
|          |                                        | H = 3,8 m |             |      |      | 0,11        | 0,13 | 0,10 | 0,09        | 0,10 | 0,08 | 0,05        | 0,06  | 0,04 |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 32          |      |      | 14          |      |      | 2           |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 35          |      |      | 19          |      |      | < 15        |      |      |             |       |      |              |      |      |  |
| 500      | Speed in occupied zone                 | H = 2,7 m |             |      |      | 0,32        | 0,39 | 0,28 | 0,24        | 0,28 | 0,22 | 0,17        | 0,21  | 0,15 | 0,15         | 0,16 | 0,12 |  |
|          |                                        | H = 3,2 m |             |      |      | 0,21        | 0,26 | 0,19 | 0,17        | 0,19 | 0,15 | 0,10        | 0,13  | 0,09 | 0,09         | 0,10 | 0,07 |  |
|          |                                        | H = 3,8 m |             |      |      | 0,16        | 0,19 | 0,14 | 0,13        | 0,14 | 0,12 | 0,07        | 0,09  | 0,06 | 0,06         | 0,06 | 0,05 |  |
|          | Total ΔP (Pa)                          |           | 56          |      |      | 24          |      |      | 16          |      |      | 8           |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 48          |      |      | 25          |      |      | 20          |      |      | < 20        |       |      |              |      |      |  |
| 650      | Speed in occupied zone                 | H = 2,7 m |             |      |      | 0,32        | 0,37 | 0,29 | 0,22        | 0,26 | 0,19 | 0,19        | 0,21  | 0,16 |              |      |      |  |
|          |                                        | H = 3,2 m |             |      |      | 0,22        | 0,24 | 0,20 | 0,13        | 0,16 | 0,11 | 0,11        | 0,12  | 0,09 |              |      |      |  |
|          |                                        | H = 3,8 m |             |      |      | 0,16        | 0,18 | 0,15 | 0,09        | 0,10 | 0,07 | 0,07        | 0,08  | 0,07 |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 37          |      |      | 25          |      |      | 16          |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 32          |      |      | 23          |      |      | 20          |      |      |             |       |      |              |      |      |  |
| 800      | Speed in occupied zone                 | H = 2,7 m |             |      |      | 0,38        | 0,45 | 0,35 | 0,27        | 0,33 | 0,23 | 0,24        | 0,25  | 0,20 |              |      |      |  |
|          |                                        | H = 3,2 m |             |      |      | 0,26        | 0,29 | 0,24 | 0,16        | 0,20 | 0,14 | 0,14        | 0,15  | 0,12 |              |      |      |  |
|          |                                        | H = 3,8 m |             |      |      | 0,19        | 0,22 | 0,18 | 0,11        | 0,13 | 0,09 | 0,090       | 0,10  | 0,07 |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 50          |      |      | 27          |      |      | 24          |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 36          |      |      | 27          |      |      | 25          |      |      |             |       |      |              |      |      |  |
| 900      | Speed in occupied zone                 | H = 2,7 m |             |      |      | 0,42        | 0,50 | 0,39 | 0,33        | 0,40 | 0,28 | 0,29        | 0,30  | 0,23 |              |      |      |  |
|          |                                        | H = 3,2 m |             |      |      | 0,23        | 0,35 | 0,26 | 0,21        | 0,26 | 0,18 | 0,17        | 0,17  | 0,14 |              |      |      |  |
|          |                                        | H = 3,8 m |             |      |      | 0,21        | 0,26 | 0,21 | 0,15        | 0,17 | 0,12 | 0,11        | 0,12  | 0,09 |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 85          |      |      | 40          |      |      | 29          |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 39          |      |      | 31          |      |      | 27          |      |      |             |       |      |              |      |      |  |
| 1000     | Speed in occupied zone                 | H = 2,7 m |             |      |      |             |      |      | 0,36        | 0,42 | 0,31 | 0,31        | 0,32  | 0,25 |              |      |      |  |
|          |                                        | H = 3,2 m |             |      |      |             |      |      | 0,22        | 0,26 | 0,19 | 0,18        | 0,19  | 0,15 |              |      |      |  |
|          |                                        | H = 3,8 m |             |      |      |             |      |      | 0,15        | 0,18 | 0,13 | 0,12        | 0,13  | 0,10 |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 55          |      |      |             |      |      | 42          |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 35          |      |      |             |      |      | 30          |      |      |             |       |      |              |      |      |  |
| 1250     | Speed in occupied zone                 | H = 2,7 m |             |      |      |             |      |      | 0,42        | 0,48 | 0,38 | 0,39        | 0,40  | 0,32 |              |      |      |  |
|          |                                        | H = 3,2 m |             |      |      |             |      |      | 0,28        | 0,33 | 0,26 | 0,24        | 0,244 | 0,19 |              |      |      |  |
|          |                                        | H = 3,8 m |             |      |      |             |      |      | 0,22        | 0,25 | 0,20 | 0,16        | 0,16  | 0,13 |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 82          |      |      |             |      |      | 58          |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 38          |      |      |             |      |      | 35          |      |      |             |       |      |              |      |      |  |
| 1600     | Speed in occupied zone                 | H = 2,7 m |             |      |      |             |      |      |             |      |      | 0,50        | 0,52  | 0,42 |              |      |      |  |
|          |                                        | H = 3,2 m |             |      |      |             |      |      |             |      |      | 0,31        | 0,32  | 0,26 |              |      |      |  |
|          |                                        | H = 3,8 m |             |      |      |             |      |      |             |      |      | 0,21        | 0,21  | 0,17 |              |      |      |  |
|          | Total ΔP (Pa)                          |           | 84          |      |      |             |      |      |             |      |      |             |       |      |              |      |      |  |
|          | Sound level (dB)                       |           | 40          |      |      |             |      |      |             |      |      |             |       |      |              |      |      |  |

# CIRCULAR – ROTATIONAL DIFFUSER SERIE QCT

## GRAPHIC DESCRIPTION



## DESCRIPTION

### SERIE

- QCT: Circular – rotational diffuser.

### MODEL

- QCT200/400/400: Circular – rotational diffuser, model 200/400/400.

### MEASUREMENT (mm): by model

- Ø: 396 mm.

### FINISH

- LB: White lacquered.

### BLADE FINISH

- AN: Plastic black blades.

### ACCESSORIES (opcional)

- PMR400: Mounting crossbar for QCT200/400/400.

### Order example: QCT200/400/400-LB-AN+PMR400

- To order a circular – rotational diffuser, Ø 396mm white lacquered, with plastic black blades and mounting crossbar, you should request:

| Order                          | Description                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------|
| Diffuser QCT 200/400/400-LB-AN | Circular – rotational diffuser, Ø 396mm white lacquered, with plastic black blades. |
| Crossbar PMR400                | Mounting crossbar for QCT200/400/400.                                               |

### Order example: QCT100/300/300-LB-AN + PLERC\_L

- To order a circular – rotational diffuser, Ø 296mm white lacquered, with plastic black blades and circular insulated lateral connection plenum, you should request:

| Order                               | Description                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| Diffuser QCT100/300/300-LB-AN       | Circular – rotational diffuser, Ø 296mm white lacquered, with plastic black blades.                   |
| Insulated circular plenum PLERC300L | Circular insulated lateral connection plenum. Model PLERC300L with air regulation in connection port. |



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