

The RXO swirl diffusers are designed to be applied in air conditioning, ventilation and heating systems. They can be mounted in false ceilings or suspended from the ceiling itself.

The design of the vanes and their radial arrangement cause a swirl air supply with a coanda effect, which provides a high level of induction in the atmosphere and a reduction in stratification. The sectorised vanes emit a uniform passage section.

The RXO series diffusers admit a flow variation of 60% keeping the air stream stable. These diffusers can be used from 2.6 up to 4 metres high and at a temperature differential up to 12°C.

### Material:

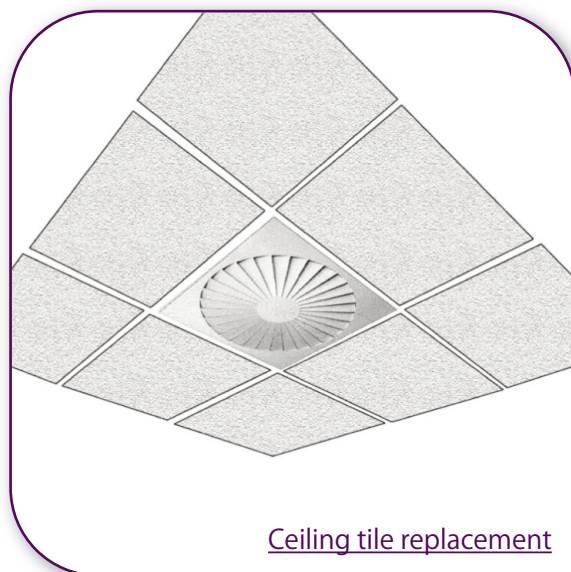
Diffuser constructed from galvanised steel. All diffusers are provided with a seal on the back of the frame so that the perimeter, in contact with the plenum box or the ceiling, is airtight.

### Accessories:

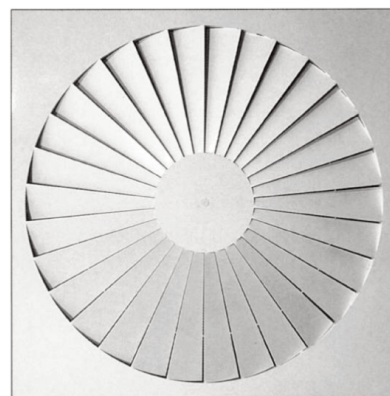
Plenum box with a lateral circular connection for square and circular diffusers. It includes supports to hang from the ceiling. Made in galvanised steel. Plenum box is thermo-acoustically insulated with foam with coefficient thermal conductivity of 0.04 w/mk.

Foam complies with fire reaction specifications:

|            |    |
|------------|----|
| UNE 27-727 | M2 |
| UNE 92-501 | M2 |
| DIN 4102   | M2 |



Ceiling tile replacement



Fixed Vanes Swirl Diffuser//  
Type RXOS



Fixed Vanes Swirl Diffuser//  
Type RXOC

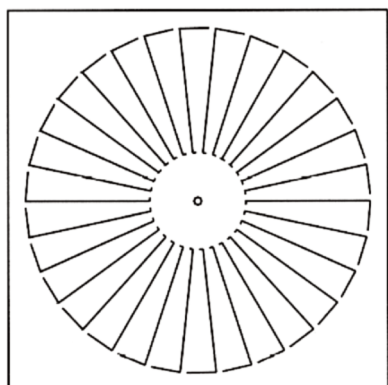
### Fixing:

Connection into plenum box by central screw to hang the assembly from the ceiling with drop rods. Hidden fixing with a crossbar and central screw. Suitable for mounting in false ceiling with rectangular duct. Constructed in galvanised steel.

### Finish:

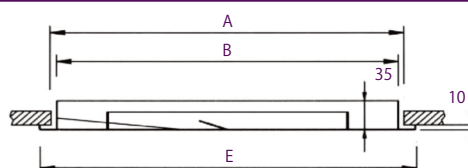
Polyester powder-coated in the following colours:  
RAL 9010 - White  
RAL - Other colours at an additional cost.

Type RXOS



**Type RXOSR Sizes**

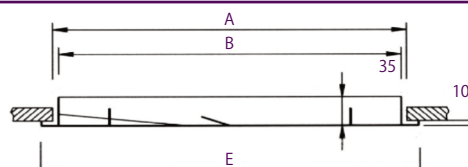
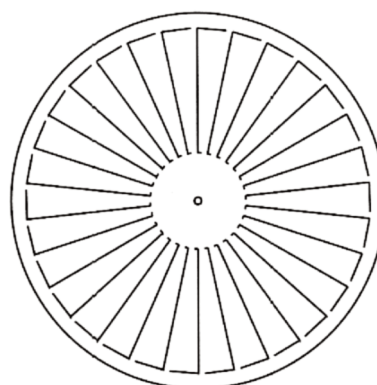
|         | E   | A   | B   |
|---------|-----|-----|-----|
| 600-400 | 595 | 568 | 340 |
| 600-500 | 595 | 568 | 440 |



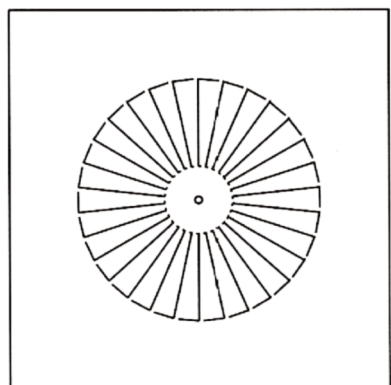
**Type RXOC Sizes**

|     | E   | A   | B   |
|-----|-----|-----|-----|
| 400 | 400 | 370 | 340 |
| 500 | 500 | 470 | 440 |
| 600 | 600 | 568 | 538 |

Type RXOC



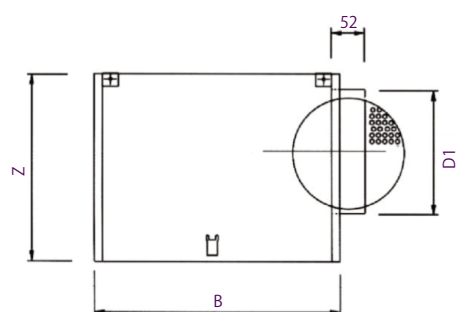
Type RXOSR



**Type RXOS Sizes**

|     | E   | A   | B   |
|-----|-----|-----|-----|
| 400 | 395 | 370 | 340 |
| 500 | 495 | 470 | 440 |
| 600 | 595 | 568 | 538 |
| 625 | 620 | 568 | 538 |

All units are 595X595 over flange.

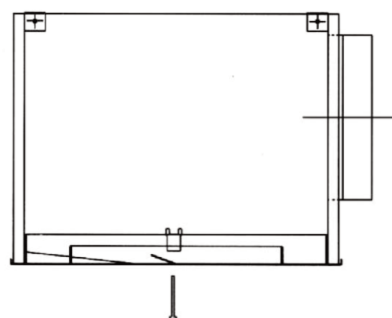
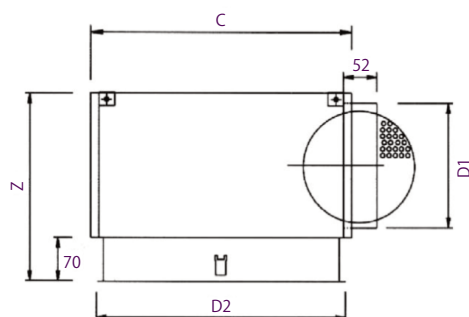


Type PLXOS-R

Type PLXOS Sizes

|     | B   | Z   | D1  |
|-----|-----|-----|-----|
| 310 | 305 | 300 | 198 |
| 400 | 390 | 300 | 198 |
| 500 | 490 | 300 | 198 |
| 600 | 590 | 350 | 248 |

Type PLXOC-R



Type PLXO

Type PLXOC, PLXOC/S/ Sizes

|     | D2  | C   | Z   | D1  |
|-----|-----|-----|-----|-----|
| 400 | 395 | 415 | 300 | 198 |
| 500 | 495 | 515 | 300 | 198 |
| 600 | 595 | 615 | 350 | 248 |

Type PMXO



Recommended Velocity

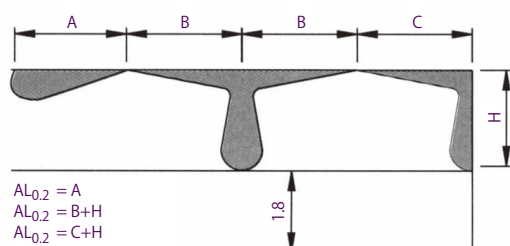
| RXO | V min m/s | V max m/s |
|-----|-----------|-----------|
| 400 | 2.5       | 4.5       |
| 500 | 2.5       | 4.5       |
| 600 | 2.5       | 4.5       |
| 625 | 2.5       | 4.5       |

Effective Face Area m<sup>2</sup>

| RXO | Aeff m <sup>2</sup> | Q min m <sup>3</sup> /h | Q max m <sup>3</sup> /h |
|-----|---------------------|-------------------------|-------------------------|
| 400 | 0.0165              | 150                     | 300                     |
| 500 | 0.0336              | 300                     | 550                     |
| 600 | 0.05                | 500                     | 800                     |
| 625 | 0.05                | 500                     | 800                     |

$$DPt = Kp \times DPt$$

$$Lwa = Lwa1 + Kf$$



Correction Factor for DPt & LWA1

| RXO |         | 100% Open | 50% Open | 10% Open |
|-----|---------|-----------|----------|----------|
| 400 | DPt/Kp/ | 1         | 1.2      | 2        |
|     | Lwa1/Kf | 0         | 2        | 4        |
| 500 | DPt/Kp/ | 1         | 1.7      | 2        |
|     | Lwa1/Kf | 0         | 4        | 6        |
| 600 | DPt/Kp/ | 1         | 1.5      | 3.1      |
|     | Lwa1/Kf | 0         | 2        | 5        |
| 700 | DPt/Kp/ | 1         | 1.5      | 3.1      |
|     | Lwa1/Kf | 0         | 2        | 5        |

Effective Velocity, Pressure Loss &  
Sound Power Level Throw with  
Ceiling Effect

