

# EDE1 - EDE1R Swirl diffusers with adjustable air bars

High induction swirl diffusers with adjustable aerodynamic profile deflectors.



## Description

EDE1 - High induction swirl diffusers with adjustable air bars on square panel.

EDE1R - High induction swirl diffusers with adjustable air bars on circular panel.

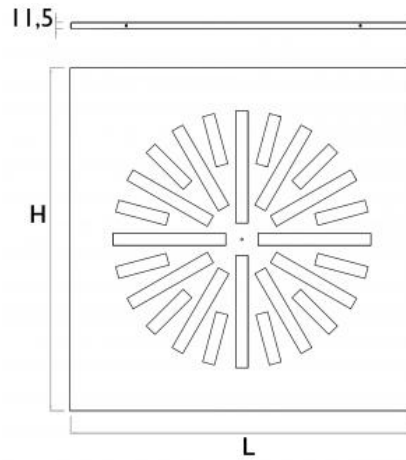
## Characteristics

Material: galvanized steel

Finish:

- white RAL 9016 painted panel;
- black ABS deflectors.

Installation on plenum with lateral not visible screws or with internal bridge in the plenum box and central hole on the diffuser (screw and cap for installation with fixing bridge included in the diffuser).



## Use

Swirl diffusers suitable for installation in rooms with a height between 2.5 and 4 meters, both in heating and cooling mode.

## Accessories

- EPZ-EDE galvanized plenum with damper and fixing bridge;
- EPZ-EDE-EQ galvanized plenum with damper, fixing bridge and equalizer;
- EPI-EDE isolated galvanized plenum with damper and fixing bridge;
- EPI-EDE-EQ isolated galvanized plenum with damper, fixing bridge and equalizer.

## Special executions

Colour of the panel on demand.

## Notes

In stock are available insulated plenum boxes complete with damper, lateral connection and fixing kit.

## Diffuser dimensions

| model EDE1 | L x H (mm) |
|------------|------------|
| 300        | 295x295    |
| 400        | 395x395    |
| 500        | 495x495    |
| 600        | 595x595    |
| 625        | 620x620    |
| 800        | 795x795    |

## Operating data

Vk: effective speed (m/s)

m<sup>3</sup>/h: air flow

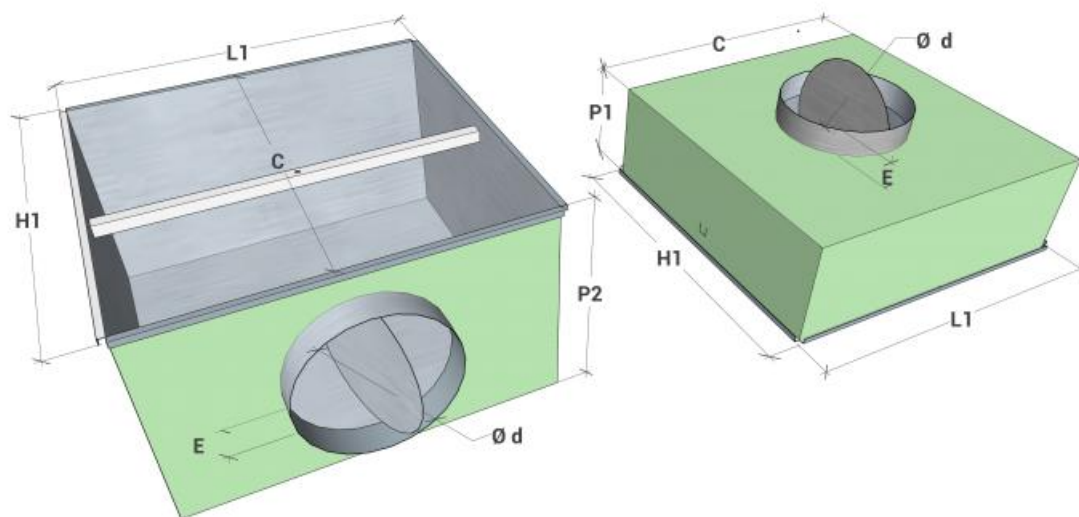
Pa: pressure drop in Pascal

L(m): air throw in meters calculated on ceiling installation, terminal velocity 0.25 m/s

dB(A): noise level

| model       | effective section<br>m <sup>2</sup> | Vk                | number of deflectors |     |      |      |      | number of deflectors |
|-------------|-------------------------------------|-------------------|----------------------|-----|------|------|------|----------------------|
|             |                                     |                   | 2                    | 3   | 4    | 5    | 6    |                      |
| 300         | 0,0081                              | m <sup>3</sup> /h | 60                   | 90  | 120  | 145  | 175  | 8                    |
|             |                                     | Pa                | 5                    | 11  | 20   | 32   | 47   |                      |
|             |                                     | L(m)              | 0,9                  | 1,3 | 1,7  | 2,2  | 2,9  |                      |
| 400         | 0,0164                              | m <sup>3</sup> /h | 120                  | 175 | 235  | 295  | 355  | 12                   |
|             |                                     | Pa                | 5                    | 11  | 20   | 32   | 47   |                      |
|             |                                     | L(m)              | 1,1                  | 1,6 | 2,1  | 2,7  | 3,3  |                      |
| 500         | 0,0354                              | m <sup>3</sup> /h | 255                  | 380 | 510  | 635  | 765  | 24                   |
|             |                                     | Pa                | 5                    | 12  | 21   | 33   | 48   |                      |
|             |                                     | L(m)              | 1,6                  | 2,4 | 3,1  | 3,9  | 4,8  |                      |
| 600         | 0,0506                              | m <sup>3</sup> /h | 365                  | 545 | 730  | 910  | 1090 | 28                   |
|             |                                     | Pa                | 5                    | 12  | 21   | 33   | 48   |                      |
|             |                                     | L(m)              | 1,9                  | 2,8 | 3,7  | 4,7  | 5,6  |                      |
| 625         | 0,0506                              | m <sup>3</sup> /h | 365                  | 545 | 730  | 910  | 1090 | 28                   |
|             |                                     | Pa                | 5                    | 12  | 21   | 33   | 48   |                      |
|             |                                     | L(m)              | 1,9                  | 2,8 | 3,7  | 4,7  | 5,6  |                      |
| 800         | 0,0787                              | m <sup>3</sup> /h | 565                  | 850 | 1135 | 1415 | 1700 | 28                   |
|             |                                     | Pa                | 5                    | 12  | 21   | 33   | 48   |                      |
|             |                                     | L(m)              | 2,4                  | 3,6 | 4,8  | 5,9  | 7,2  |                      |
| Noise level |                                     | dB(A)             | 20                   | 25  | 30   | 35   | 40   |                      |

## Plenum dimension



Dimensions are expressed in mm

| model | Compatible air diffuser type | External dimensions L1 x H1 | Ø d | P1  | P2  | C   | E  |
|-------|------------------------------|-----------------------------|-----|-----|-----|-----|----|
| 300   | EDE1 300                     | 292x292                     | 146 | 200 | 250 | 260 | 50 |
|       | EDE1 300/600                 |                             |     |     |     |     |    |
| 400   | EDE1 400                     | 392x392                     | 198 | 200 | 300 | 360 | 50 |
|       | EDE1 400/600                 |                             |     |     |     |     |    |
| 500   | EDE1 500                     | 492x492                     | 198 | 200 | 300 | 460 | 50 |
|       | EDE1 500/600                 |                             |     |     |     |     |    |
| 600   | EDE1 600                     | 592x592                     | 248 | 200 | 350 | 560 | 50 |
|       | EDE1 300/600                 |                             |     |     |     |     |    |
|       | EDE1 400/600                 |                             |     |     |     |     |    |
|       | EDE1 500/600                 |                             |     |     |     |     |    |
| 625   | EDE1 625                     | 617x617                     | 248 | 200 | 350 | 585 | 50 |
| 800   | EDE1 800                     | 792x792                     | 298 | 250 | 400 | 760 | 50 |

## Price list

| model | 300/600 | 400/600 | 500/600 |
|-------|---------|---------|---------|
| EDE1  | euro    | euro    | euro    |

Price of EDE1R on request

| model | 300  | 400  | 500  | 600  | 625  | 800  |
|-------|------|------|------|------|------|------|
| EDE1  | euro | euro | euro | euro | euro | euro |

## Price list for plenum box with side connection

Quotation on demand for plenum box with rear connection  
For plenum EDE1R price on demand.

| Model      | Description  | 300  | 400  | 500  | 600  | 625  | 800  |
|------------|--|------|------|------|------|------|------|
|            |  | euro | euro | euro | euro | euro | euro |
| EPZ-EDE    | <b>Galvanized plenum</b> with damper and fixing bridge                     | ▼    | ▼    | ▼    | ▼    | ▼    | ▼    |
| EPZ-EDE-EQ | <b>Galvanized plenum</b> with damper, fixing bridge and equalizer          | ▼    | ▼    | ▼    | ▼    | ▼    | ▼    |
| EPI-EDE    | <b>ISOLATED galvanized plenum</b> with damper and fixing bridge            | ▼    | ▼    | ▼    | ▼    | ▼    | ▼    |
| EPI-EDE-EQ | <b>ISOLATED galvanized plenum</b> with damper, fixing bridge and equalizer | ▼    | ▼    | ▼    | ▼    | ▼    | ▼    |