

# EBCV Supply air grilles for circular ducts



## Description

Supply air jets with 1 or 2 rows of individually adjustable blades. The special frame ensures the perfect adherence of the air jet to the circular duct.

## Characteristics:

Material: steel Finish: galvanised Installation: on circular duct with screws.

## Use

For air supply with installation directly on circular ducts in ventilation and air conditioning systems.

## Models

- EBCV-V with 1 row of vertical blades;
- EBCV-VO with 2 rows of vertical and horizontal blades.

The VO version has the first vertical row near the front and the second horizontal row inside the air jet.

## Accessories

- SCB - Regulation damper with blades with opposing movement.

## On request

RAL9016 painting or other RAL colours.

## Dimensions

| Technical Drawing |        |               |
|-------------------|--------|---------------|
| EBCV-VO           | EBCV-V | Fori per viti |
|                   |        |               |
|                   |        |               |

Operating Data

- V<sub>k</sub>: effective speed (m/s).
- m³/h: flow rate.
- Pa: pressure drops in Pascal.
- L1 (m): air throw of air jet without damper, with a blade deflection of 0°, with coanda (ceiling) effect, terminal velocity 0.25 m/s and T<sub>max</sub> 15°C.
- dB(A): noise level.

All dimensions are expressed in mm.

When ordering, indicate the diameter of the duct where the air jet will be installed.

| Dimensions LxH       | Duct Diameter                           | Effective Section | m³/h | L1   | m³/h | L1  |
|----------------------|-----------------------------------------|-------------------|------|------|------|-----|
|                      |                                         | m²                |      |      |      |     |
| 300x100              | 250 - 300 - 350 - 400                   | 0,018             | 140  | 3,7  | 230  | 5,6 |
| 400x100              | 250 - 300 - 350 - 400                   | 0,025             | 200  | 4,5  | 320  | 6,8 |
| 500x100              | 250 - 300 - 350 - 400                   | 0,033             | 260  | 6    | 420  | 8   |
| 400x150              | 250 - 300 - 350 - 400 - 500 - 600 - 700 | 0,039             | 310  | 4,3  | 500  | 8   |
| 500x150              | 250 - 300 - 350 - 400 - 500 - 600 - 700 | 0,051             | 400  | 5    | 640  | 9   |
| 600x150              | 250 - 300 - 350 - 400 - 500 - 600 - 700 | 0,059             | 470  | 5,8  | 750  | 9,5 |
| 400x200              | 350 - 400 - 500 - 600 - 700             | 0,057             | 450  | 6,5  | 720  | 9   |
| 500x200              | 350 - 400 - 500 - 600 - 700             | 0,071             | 560  | 7,5  | 900  | 10  |
| 600x200              | 350 - 400 - 500 - 600 - 700             | 0,086             | 680  | 10   | 1080 | 11  |
| 800x200              | 350 - 400 - 500 - 600 - 700             | 0,115             | 910  | 10,3 | 1450 | 13  |
| 600x300              | 600 - 700                               | 0,136             | 1080 | 9,6  | 1730 | 15  |
| 800x300              | 600 - 700                               | 0,178             | 1410 | 10,5 | 2250 | 16  |
| V <sub>k</sub> (m/s) |                                         |                   | 2,2  |      | 3,5  |     |

Noise Level dB(A)

| V <sub>k</sub><br>m/s | Deflection 0° | Deflection20° | Deflection40° |
|-----------------------|---------------|---------------|---------------|
|                       | dB(A)         | dB(A)         | dB(A)         |
| 2.2                   | 15/20         | 18/23         | 20/25         |
| 3.5                   | 20/25         | 23/28         | 25/30         |

Pressure Drop (Pa)

| V<br>m/s | Deflection 0° | Deflection20° | Deflection40° |
|----------|---------------|---------------|---------------|
|          | Pa            | Pa            | Pa            |
| 2.2      | 4             | 5.5           | 7             |
| 3.5      | 9             | 13            | 16            |



Price List

- Painting:
- Gloss RAL 9016: +20%.
  - Gloss RAL 7035, 9006, 9003, 9005: +30%.
  - Other RAL colors: price on request.

- Notes:
- with SCB damper installed + 5% of the price of the damper.

| Dimensions | Duct | EBCV-V | EBCV-VO | SCB   |
|------------|------|--------|---------|-------|
| LxH        | mm   | €      | €       | €     |
| 300x100    | 250  | 29,29  | 38,49   | 15,41 |
|            | 300  | 29,29  | 38,49   |       |
|            | 350  | 29,29  | 38,49   |       |
|            | 400  | 29,29  | 38,49   |       |
| 400x100    | 250  | 32,35  | 46,73   | 18,44 |
|            | 300  | 32,35  | 46,73   |       |
|            | 350  | 32,35  | 46,73   |       |
|            | 400  | 32,35  | 46,73   |       |
| 500x100    | 250  | 43,11  | 55,12   | 22,01 |
|            | 300  | 43,11  | 55,12   |       |
|            | 350  | 43,11  | 55,12   |       |
|            | 400  | 43,11  | 55,12   |       |
| 400x150    | 250  | 41,97  | 56,32   | 21,28 |
|            | 300  | 41,97  | 56,32   |       |
|            | 350  | 41,97  | 56,32   |       |
|            | 400  | 41,97  | 56,32   |       |
|            | 500  | 41,97  | 56,32   |       |
|            | 600  | 41,97  | 56,32   |       |
|            | 700  | 41,97  | 56,32   |       |
| 500x150    | 250  | 44,34  | 66,96   | 24,64 |
|            | 300  | 44,34  | 66,96   |       |
|            | 350  | 44,34  | 66,96   |       |
|            | 400  | 44,34  | 66,96   |       |
|            | 500  | 44,34  | 66,96   |       |
|            | 600  | 44,34  | 66,96   |       |
|            | 700  | 44,34  | 66,96   |       |

Notes:

- with SCB damper installed + 5% of the price of the damper.

| Dimensions | Duct | EBCV-V | EBCV-VO | SCB   |
|------------|------|--------|---------|-------|
| LxH        | mm   | €      | €       | €     |
| 600x150    | 250  | 49,09  | 71,87   | 28,08 |
|            | 300  | 49,09  | 71,87   |       |
|            | 350  | 49,09  | 71,87   |       |
|            | 400  | 49,09  | 71,87   |       |
|            | 500  | 49,09  | 71,87   |       |
|            | 600  | 49,09  | 71,87   |       |
|            | 700  | 49,09  | 71,87   |       |
| 400x200    | 350  | 46,73  | 62,30   | 26,32 |
|            | 400  | 46,73  | 62,30   |       |
|            | 500  | 46,73  | 62,30   |       |
|            | 600  | 46,73  | 62,30   |       |
|            | 700  | 46,73  | 62,30   |       |
| 500x200    | 350  | 51,53  | 69,52   | 30,92 |
|            | 400  | 51,53  | 69,52   |       |
|            | 500  | 51,53  | 69,52   |       |
|            | 600  | 51,53  | 69,52   |       |
|            | 700  | 51,53  | 69,52   |       |
| 600x200    | 350  | 58,71  | 82,68   | 35,62 |
|            | 400  | 58,71  | 82,68   |       |
|            | 500  | 58,71  | 82,68   |       |
|            | 600  | 58,71  | 82,68   |       |
|            | 700  | 58,71  | 82,68   |       |
| 800x200    | 350  | 64,11  | 100,77  | 43,65 |
|            | 400  | 64,11  | 100,77  |       |
|            | 500  | 64,11  | 100,77  |       |
|            | 600  | 64,11  | 100,77  |       |
|            | 700  | 64,11  | 100,77  |       |
| 600x300    | 600  | 88,07  | 123,97  | 44,34 |
|            | 700  | 88,07  | 123,97  |       |
| 800x300    | 600  | 106,84 | 151,16  | 53,79 |
|            | 700  | 106,84 | 151,16  |       |