EKOVENT®

# EKO-Y

## Outer Wall Louvre

# OUTER WALL LOUVRE

EKO-Y

## Quick facts

EKO-Y is an outer wall louvre designed for use as a fresh air and exhaust air louvre according to VVS & Kyl AMA16.

- Achieves <80% water separation efficiency (Class D) at a face velocity of 2 m/s, as well as Class 2 for pressure drop coefficient.
- The frame is available in two versions: Z-profile and L-profile.
- Zinc Magnesium ZM120 (C4) is the standard material.
- Can be supplied in various special designs.
- Can be supplied in a painted finish in any RAL-colour.
- Available in MagiCAD.

## Design

EKO-Y consists of a pressed sheet metal mounting frame with an insert of formed blades and wire netting. The blades are specially designed to prevent rain ingress while offering low air resistance. A drip strip is located at the bottom of the louvre. The louvre insert is secured to the mounting frame by screws.

As standard, the louvre is delivered with a protection mesh, but an insect mesh can be mounted as an accessory. For small air volumes, there is a die-cast variant, see EKO-YA. EKO-Y complies with class D2 according to EN 13030.

The louvre is available in two versions: EKO-YL with a frame for wall mounting and EKO-YZ with a screw edge for connection to a duct or a wall opening.

EKO-Y is an outer wall louvre with short separator panels and is not intended for use in facilities that require weather protection louvres. For such facilities, we recommend EKO-YV/YVB, which provides improved protection against water penetration and is tested according to standard EN 13030, capable of achieving 93%/97% water separation at a frontal velocity of 2 m/s.

## How to order EKO-Y

Outer Wall Louvre EKO-Y-A-B-C-D-E

**A – Size**
A x B

**B – Execution**
1 = Standard
2 = Reinforced

**C – Material**
1 = Zinc Magnesium ZM120 (C4) - Standard
2 = Aluminium
3 = Copper
4 = Stainless EN 1.4404
5 = Zinc Magnesium ZM310 (C5)
7 = Zinc Magnesium ZM310 (C5) RRP

**D – Surface finish**
1 = Untreated
2 = Painted (State RAL-colour in plain text)

**E – Frame**
1 = Z-Profile
2 = L-Profile

Example: EKO-Y-800x600-1-1-1-1

**Accessories**
Insect mesh (Specified in plain text)

# EKO RRP

## EKO Louvres RRP

EKO Louvres RRP (Recycled and Renewably Produced) represents a series of louvres manufactured using CO2 reduced and recycled steel for a much lower climate impact.

## Features

- The steel is based on a minimum of 75% recycled steel and iron ore pellets melted in electric arc furnaces (EAF).
- 100% renewable energy is used.
- The louvres are manufactured in Zinc Magnesium ZM310 (C5) for a optimum corrosion protection and a long product life.

## EKO Louvres EPD

Environmental Production Declaration is a detailed, third-party verified, document showing the product's environmental impact that allows comparison between products.

GWP Fossil (kg CO2e) = 3,72
GWP Recycled (kg CO2e) = 1,26

A 69% reduction in climate impact.

## Material, surface treatment

The external louvre, EKO-Y, is manufactured as a standard in ZincMagnesium ZM120, corrosivity class C4 and can be delivered powder-coated in any desired color.

The Louvres can also be made in aluminum, copper, stainless steel EN 1.4404 (C5), ZincMagnesium ZM310 (C5), and ZM 310 RRP (C5). For special materials, contact Ekovent.

### Sizes

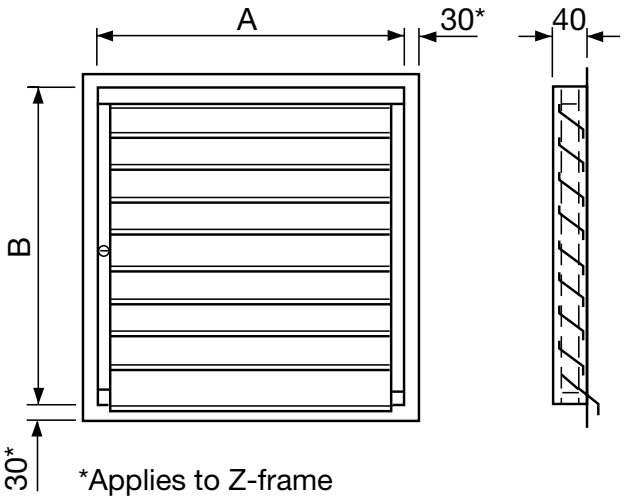
EKO-Y is manufactured in a wide range of standard dimensions. Custom dimensions are available upon request. Louvres in sizes exceeding 2000x2000 mm are produced using a modular system, with the frames of adjacent modules connected by bolts.

### Maintenance

We recommend preventive maintenance of the louvre for optimum performance. Check once a year and clean the louvre blades as necessary.

## Technical data

### Dimensions




*Applies to Z-frame

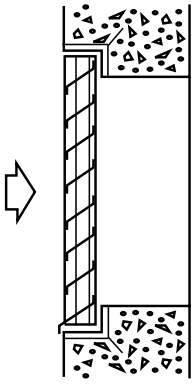
Weight: ca 13 kg/m2

### Cutout dimensions

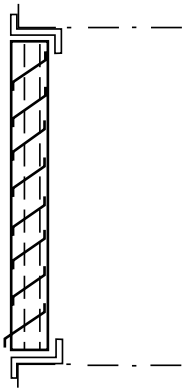
A+B mm

### Louvre dimensions

A - 10 mm, B - 10 mm



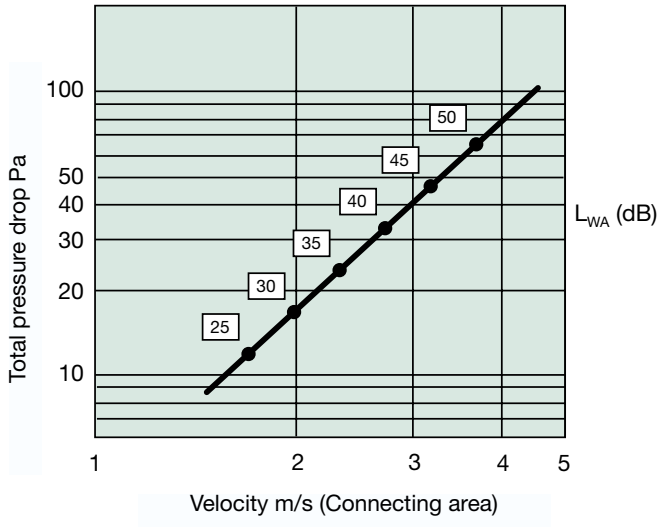
L-frame with wall frame for connection to a wall



Z-frame for connection to a duct or a wall. Screw edge/bezel

## Dimensioning diagram

The air velocity is calculated based on the connection area (gross area). The louvres' free area is 65% of the connection area if equipped with a protective mesh.




## Correction of sound power level $L_{WAKORR}$ for different sizes. $L_{WAKORR} = L_{WA} + K_1$

| Louvre area | 0,04 | 0,09 | 0,2 | 0,4 | 1,0 | 2,0 | 4,0 |
|---|---|---|---|---|---|---|---|
| $K_1$ | -4 | 0 | +4 | +7 | +11 | +14 | +17 |

## Correction of sound power level $L_{WAOK}$ in octave bands. $L_{WAOK} = L_{WAKORR} + K_{OK}$

| Octave bands | 125 | 250 | 500 | 1K | 2K | 4K | 8K |
|---|---|---|---|---|---|---|---|
| $K_{OK}$ | -2 | 0 | -3 | -6 | -9 | -16 | -21 |

Sound power level measured in accordance with ISO 3741 and ISO 5135 by the Swedish National Testing and Research Institute.

The reduction of noise level depends on the distance from EKO-Y and the connecting area

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