

**EKO**VENT®



# EKO-HST

Intake/Exhaust Air Roof Hood



# INTAKE/ EXHAUST AIR ROOF HOOD

EKO-HST



## Quick facts EKO-HST

- Corrosivity class C4 as standard
- Sizes from 20 to 160
- Suitable for Roof inlet EKO-T
- Design equal to Combination Roof hood HSK and Exhaust Roof hood HSF
- Available powder coated in the desired color
- Can be customized
- Lifting fittings mounted at factory
- Available in MagiCad

## Design

Roof hood EKO-HST consists of four grilles with protection mesh on the inside screwed against the corner and ceiling profiles. EKO-HST can be equipped with roof inlet EKO-T for passage and access through outer roofing.

## Sizes

Roof hood EKO-HST is manufactured in 10 standard sizes. Other dimensions can be manufactured on request.

## Material, Surface treatment

EKO-HST is manufactured as standard in Zinc Magnesium ZM120, with a corrosivity class of C4, and can be delivered powder-coated in any desired color. Additionally, it is available in aluminum, copper, stainless steel, Zinc Magnesium ZM310 (C5), and Zinc Magnesium ZM310 (C5) RRP.

## Maintenance

We advocate preventive maintenance of the hood for the best feature. Check once a year and clean if necessary.

## How to order EKO-HST

Intake/Exhaust Air Roof Hood EKO-HST-A-B-C

### A – Size

See size table

### B – Material

- 1 = Zinc Magnesium ZM120 (C4) - EStandard
- 2 = Aluminium
- 3 = Copper
- 4 = Stainless EN 1.4404
- 5 = Zinc Magnesium ZM310 (C5)
- 7 = Zinc Magnesium ZM310 (C5) RRP

### C – Surface treatment

- 1 = Unfinished
- 2 = Powder coated (State RAL-color)

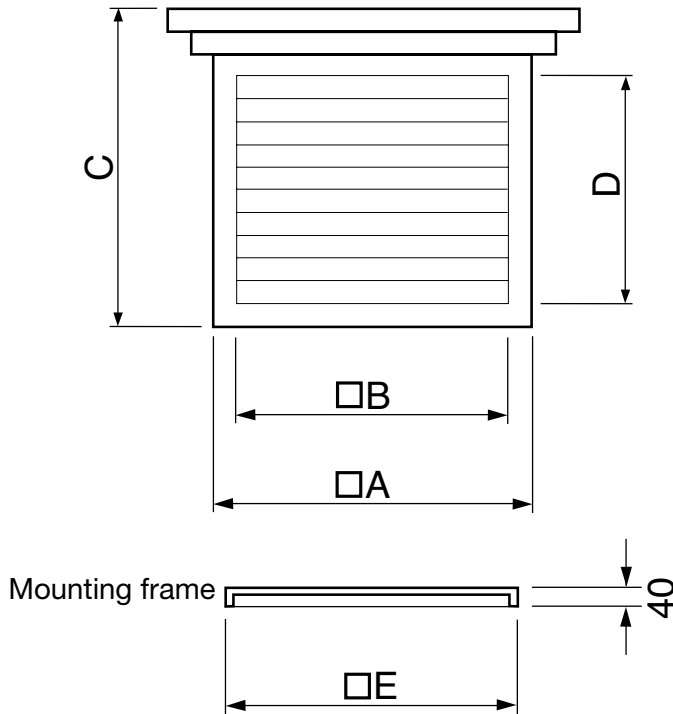
Example: Intake/Exhaust Air Roof Hood EKO-HST-50-1-1

### Accessories:

Roof inlet EKO-T

## Technical Data EKO-HST

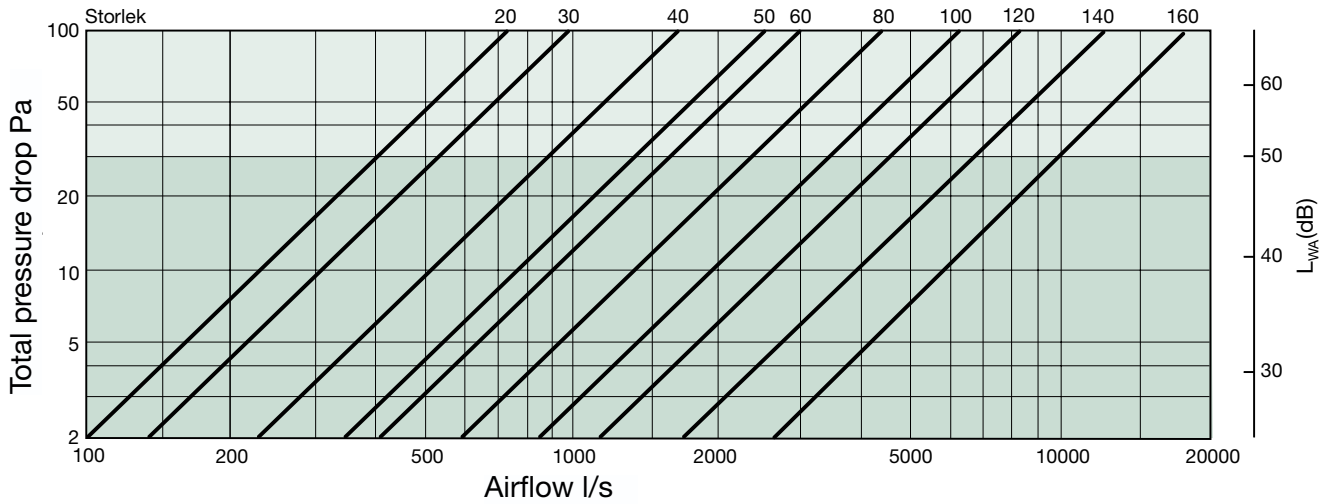
### Dimensions



### Standard sizes and selection of Roof Inlet EKO-T

EKO-HST	A	B	C	D	E	Select EKO-T	Weight (kg)	Max Air flow m <sup>3</sup> /s
20	385	300	480	300	355	3	23	0,7
30	485	400	480	300	455	4	27	0,9
40	585	500	580	400	555	5	35	1,5
50	685	600	680	500	655	6	44	2,3
60	785	700	680	500	755	7	50	2,7
80	985	900	780	600	955	9	69	4,2
100	1185	1100	880	700	1155	11	98	6,0
120	1385	1300	980	800	1355	13	120	8,1
140	1585	1500	1180	1000	1555	15	154	11,7
160	1785	1700	1380	1200	1755	17	210	16,3

## Dimensioning diagram



The recommended maximum air velocity over the gross area of the grille is 2.0 m/s. Free area is about 65% of the grill area. Darker toned field indicates rec. operation are.

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

Hood size	20	30	40	50	60	80	100	120	140	160
$K_1$	-3	-2	0	+2	+3	+4	+6	+8	+9	+10

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

Octave band	63	125	250	500	1K	2K	4K	8K
$K_{OK}$	-10	-4	-6	-7	-5	-5	-14	-26