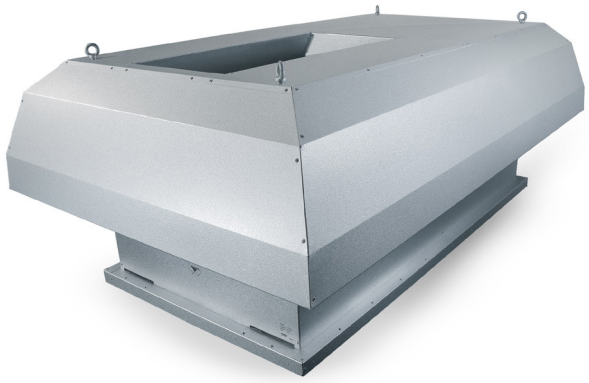
Combination Roof hood EKO-HKAS



Quick facts EKO-HKAS

EKO s-Line Roof hoods are a new series of roof hoods designed for low pressure drops and effectively prevent water penetration.

- Corrosivity class C4 as standard
- Newly developed mounting frame that provides greater flexibility when mounting the Roof hood on the roof inlet
- Specially designed drainage gutter that minimizes the risk of transmission of exhaust air / outdoor air
- Sizes for flows from 100 l / s to 10,000 l / s
- Same design as EKO-HUAS and EKO-HAAS
- Adjustable air outlet for available as an accessory
- All sizes have lifting loops
- Available in MagiCad

Design

EKO-HKAS is a Combination air Roof hood for use in comfort and industry facilities. EKO-HKAS has the same external shape as EKO-HAAS and EKO-HUAS and is therefore often used together with these when you want to achieve a uniform style on all roof hoods. EKO-HKAS is most suitably mounted on roof inlet EKO-TD.

Material, surface treatment

EKO-HKAS is made of Aluzinc sheet (Az) as standard corrosivity class C4 and can be delivered powder coated in the desired color. EKO-HKAS can also be delivered in Magnelis corrosivity class C5, stainless steel EN 1.4404, aluminum and copper.

Sizes

EKO-HKAS is manufactured in 10 standard sizes and can be supplied in many different custom designs.

How to order EKO-HKAS

Combination Roof hood EKO-HKAS-A-B-C

A – Size

See size table

B – Material

1 = Aluzink (C4)
2 = Aluminium
3 = Copper
4 = Stainless EN 1.4404
5 = Magnelis (C5)

C – Suface treatment

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

Exempel: Combined Roof hood EKO-HKAS-100-1-1

Accessories:

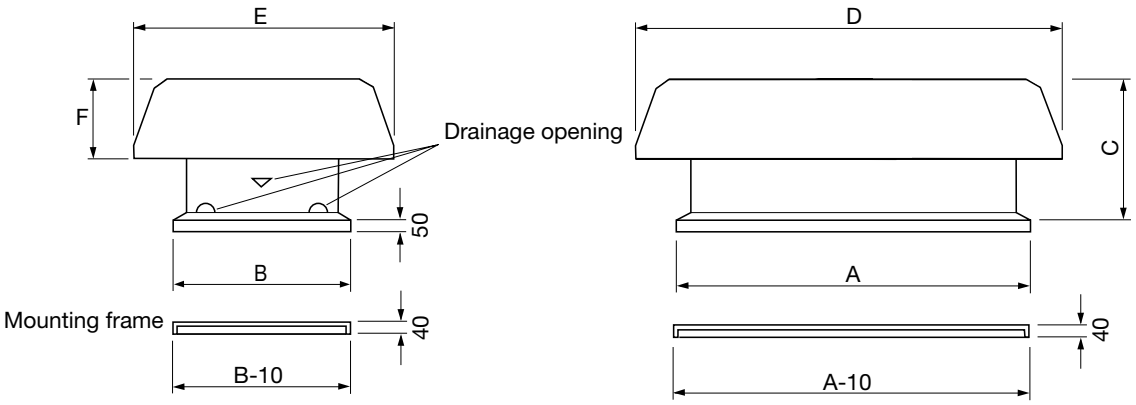
Roof inlet EKO-TD
Adjustable air outlet EKO-SUH
Protection for exhaust opening EKO-SAÖ
(Protection mesh 60x60)

Adjustable air outlet

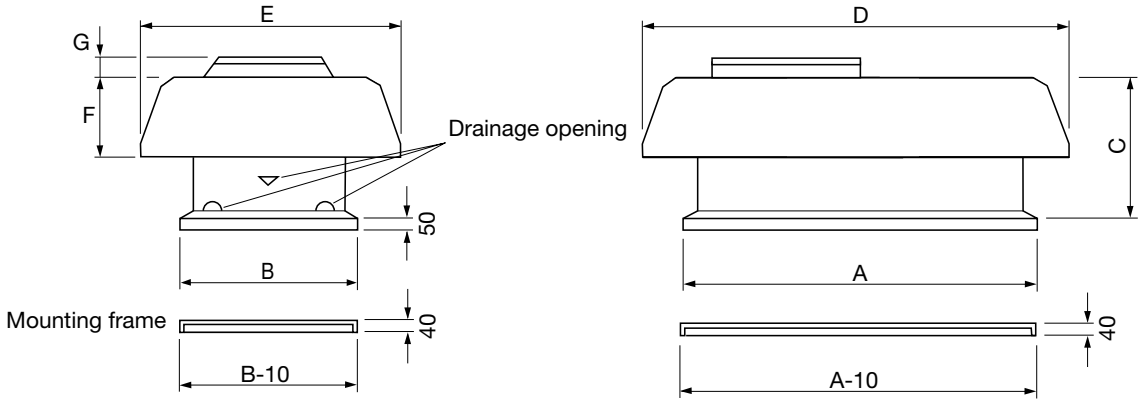
As an accessory, the roof hood size 20-100 can be delivered with an adjustable outlet for setting the optimal air velocity.

Technical data EKO-HKAS

Dimensions sizes 20 - 100



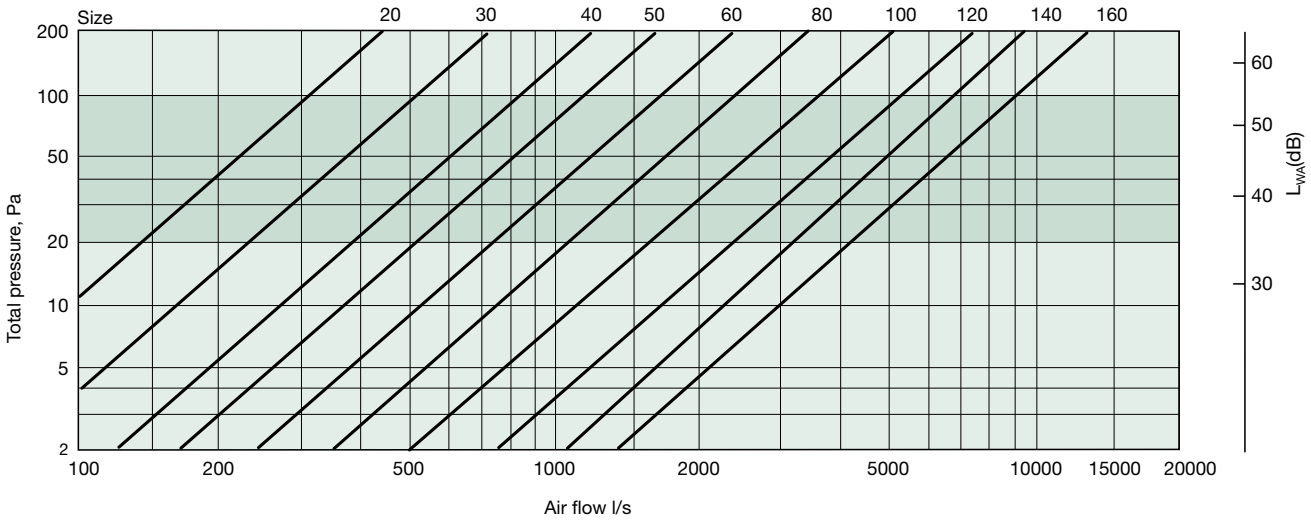
Dimensions sizes 120 - 160



Standard sizes and selection of Roof inlet EKO-TD

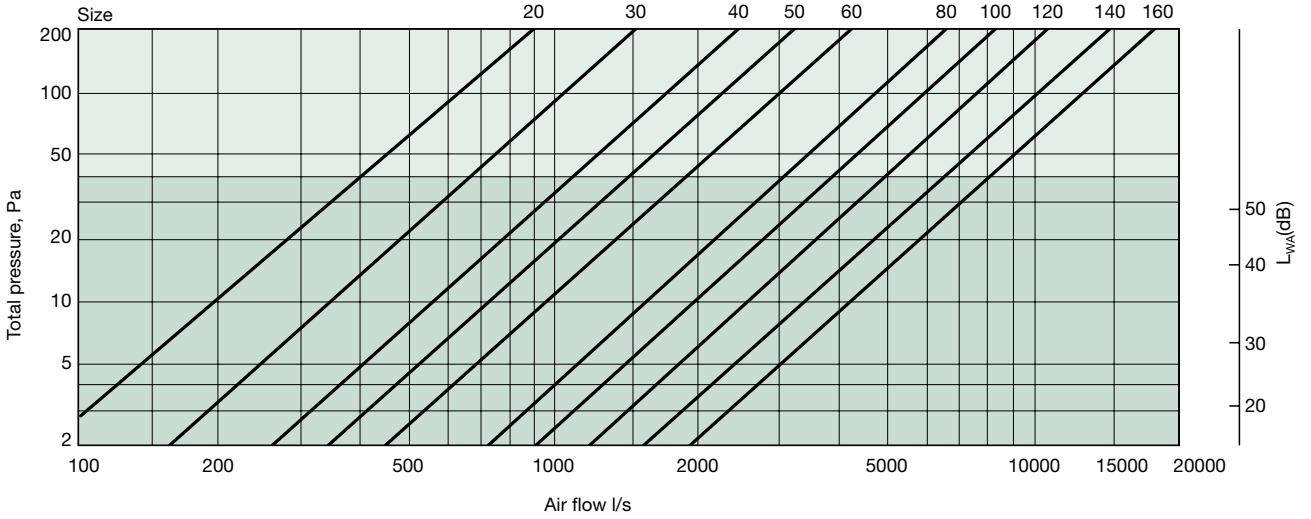
EKO-HKAS	A	B	C	D	E	F	G	Select EKO-TD	Weight kg
20	750	400	400	850	500	250	-	10	35
30	950	500	480	1050	600	280	-	13	43
40	1150	600	560	1450	900	330	-	16	85
50	1350	700	650	1650	1000	375	-	20	110
60	1550	800	730	1850	1100	415	-	22	130
80	1950	1000	810	2350	1400	455	-	28	190
100	2350	1200	900	2750	1600	500	-	34	230
120	2750	1400	1000	3250	1900	550	170	40	270
140	3150	1600	1100	3670	2130	600	250	44	305
160	3550	1800	1200	4100	2350	650	330	46	345

Selection chart – Exhaust air



Darker toned field indicates rec. operation area.

Selection chart - Inlet air



When determining the hood's total sound contribution (sound effect), the partial contributions from exhaust air and intake air must be added according to the formula:

$$L_{wA,tot,kombihuv} = 10log\left\{10^{\frac{L_{wA,avluft}}{10}} + 10^{\frac{L_{wA,uteluft}}{10}}\right\}$$

EKO-HKAS - Exhaust air

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	-4	-2	0	+1	+3	+5	+6	+7	+9	+10

Korrektion av ljudeffektnivå L_{WAOK} i oktavband. $L_{WAOK} = L_{WAKORR} + K_{OK}$

Octave band	63	125	250	500	1K	2K	4K	8K
K_{OK}	+5	+7	+4	-2	-8	-15	-22	-28

EKO-HKAS - Inlet air

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	-9	-6	-5	-3	-2	0	+1	+3	+4	+5

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}	+7	+4	-1	-3	-4	-9	-18	-22

Reduction in sound pressure level depending on distance from roof hood calculated on hemispherical distribution

Distance, m	5	25	50	75	100	150
Reduction, dB(A)	-22	-36	-42	-45	-48	-52