

EKOVENT®

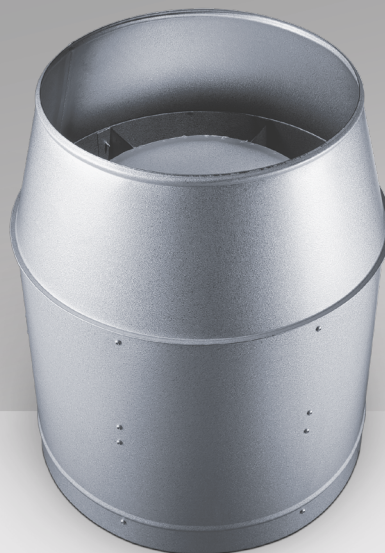


EKO-HJA

Exhaust Air Roof Hood

EXHAUST AIR ROOF HOOD

EKO-HJA



Quick facts

EKO-HJA is a circular exhaust roof hood designed to provide a high outlet velocity and large air flows.

- Sizes from Ø125 mm to Ø1500 mm
- Zinc Magnesium ZM120 (C4) as standard
- Internal water deflector
- With bottom plate suits Roof duct EKO-T
- Available in powder-coated finish
- Available in MagiCAD

Design

The EKO-HJA consists of a connection pipe, cone, and mantle. The connection pipe is designed to fit standard spigot pipes. EKO-HJA is supplied with socket connection up to size 315, while sizes 400 mm to 1500 mm feature a flange connection. To adapt to the EKO-T roof duct, the hood can be complemented by a bottom plate with a mounting frame. Larger-sized hoods starting at size 400 are equipped with lifting fittings and wire stays.

Material, surface treatment

EKO-HJA 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.

Size

EKO-HJA is manufactured in 15 standard dimensions. Other dimensions can be customized upon request.

Maintenance

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

How to order EKO-HJA

Exhaust Air Roof Hood EKO-HJA-A-B-C-D-E

A – Size

See size table

B – 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

C – Surface treatment

- 1 = Untreated
- 2 = Powder-coated (Stated in plain text)

D – Connection

- 1 = Flange
- 2 = Socket

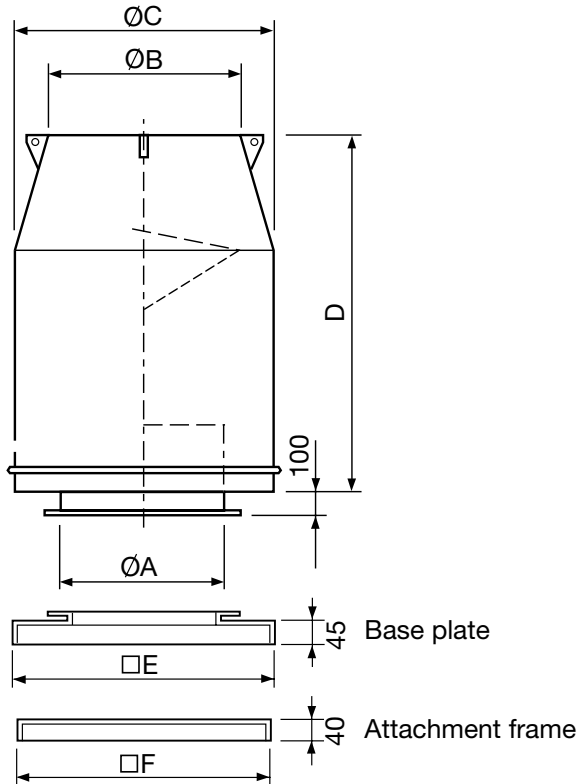
E – Accessories

- 1 = Counter flange
- 2 = Bottom plate with mounting frame
- 3 = Roof duct EKO-T
- 4 = Roof duct EKO-TR

Example: Exhaust Air Roof Hood EKO-HJA-125-1-1-1-1

Technical Data

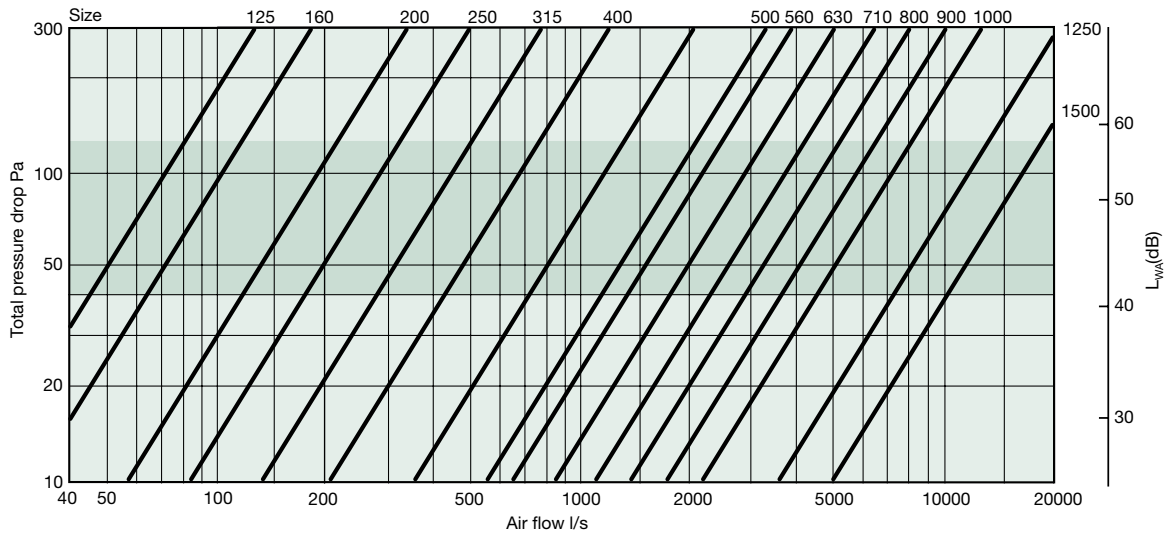
Dimensions



Standard sizes EKO-HJ and choice of Roof duct EKO-T, EKO-TR

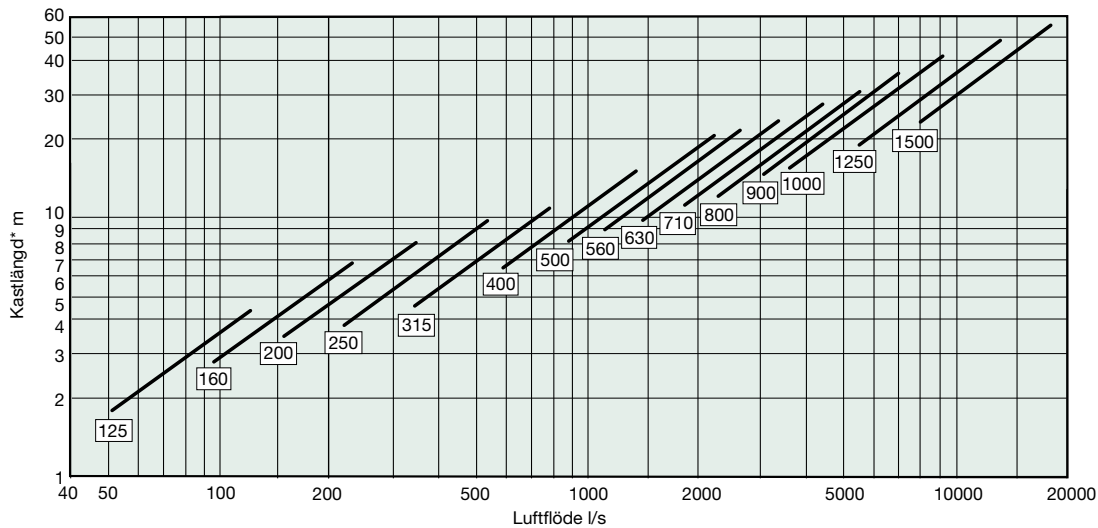
EKO-HJA	$\varnothing A$	$\varnothing B$	$\varnothing C$	D	$\square E$	$\square F$	Choose EKO-T	Choose EKO-TR	Weight (kg)
125	125	160	200	250	380	355	3	12	3
160	160	210	260	320	380	355	3	16	4
200	200	260	325	400	380	355	3	20	6
250	250	325	405	500	480	455	4	25	9
315	315	410	510	630	580	555	5	31	15
400	400	520	650	800	580	555	5	-	25
500	500	650	810	1000	680	655	6	-	37
560	550	730	910	1120	780	755	7	-	50
630	630	820	1025	1260	880	855	8	-	60
710	710	925	1150	1420	980	955	9	-	80
800	800	1040	1300	1600	980	955	9	-	95
900	900	1170	1450	1800	1080	1055	10	-	125
1000	1000	1300	1600	2000	1180	1155	11	-	145
1250	1250	1600	2000	2500	1480	1455	14	-	240
1500	1500	1900	2400	3000	1680	1655	16	-	340

Dimensioning diagram



Shaded field specifies recommended pressure drop range.

Throw length



* The air throw length is a distance from the opening of the hood to the point where the air velocity drops to 2 m/s in calm weather.

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

Hood size	100	125	160	200	250	315	400	500	560	630	710	800	900	1000	1250	1500
K_1	-9	-7	-4	-2	0	+2	+4	+6	+7	+8	+9	+10	+11	+12	+14	+16

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

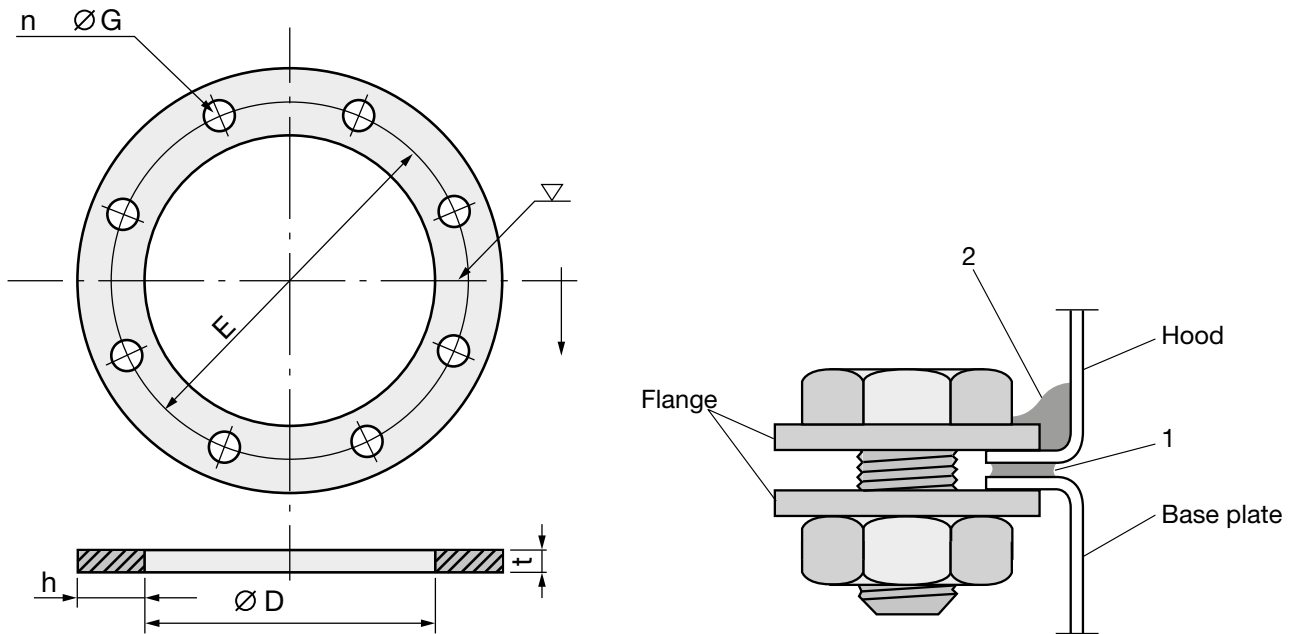
Octave band	125	250	500	1K	2K	4K	8K
K_{ok}	-3	-3	-3	-3	-10	-18	-24

Standard flanges

Size	Internal dim D mm	Hole circle E mm	Number of holes n	Hole size G mm	Weight (kg)	Material diameter mm	
						h	t
125	130	165	4	11,5	0,59	30	5
200	205	240	8	11,5	0,87	30	5
250	255	290	8	11,5	1,05	30	5
315	320	360	12	11,5	1,53	35	5
355	360	400	12	11,5	1,70	35	5
400	405	445	12	11,5	1,90	35	5
450	455	495	12	11,5	2,11	35	5
500	505	545	12	11,5	2,33	35	5
560	565	605	16	11,5	2,59	35	5
630	635	680	16	15	5,32	40	8
710	715	760	16	15	5,96	40	8
800	805	850	20	15	6,67	40	8
900	905	950	20	15	7,45	40	8
1000	1005	1050	20	15	8,24	40	8
1120	1125	1180	24	15	11,59	50	8
1250	1255	1310	24	15	12,87	50	8
1400	1405	1460	24	15	14,35	50	8
1500	1505	1560	24	15	15,33	50	8
1600	1605	1660	28	15	16,32	50	8

Assembly

During assembly apply sealant between the base plate and the hood, 1. Then apply sealant between the flange and hood as well, 2.



Stagnation

We recommend bracing roof hoods. This is conveniently done with wires that are attached to pre-punched holes or lifting fittings. Larger hoods, from size 400, are equipped with loops for lifting and wire drawing. These can be delivered as accessories for smaller sizes (100-310). In wind-exposed positions, it may be appropriate to brace even smaller roof hoods.