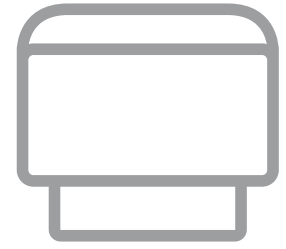
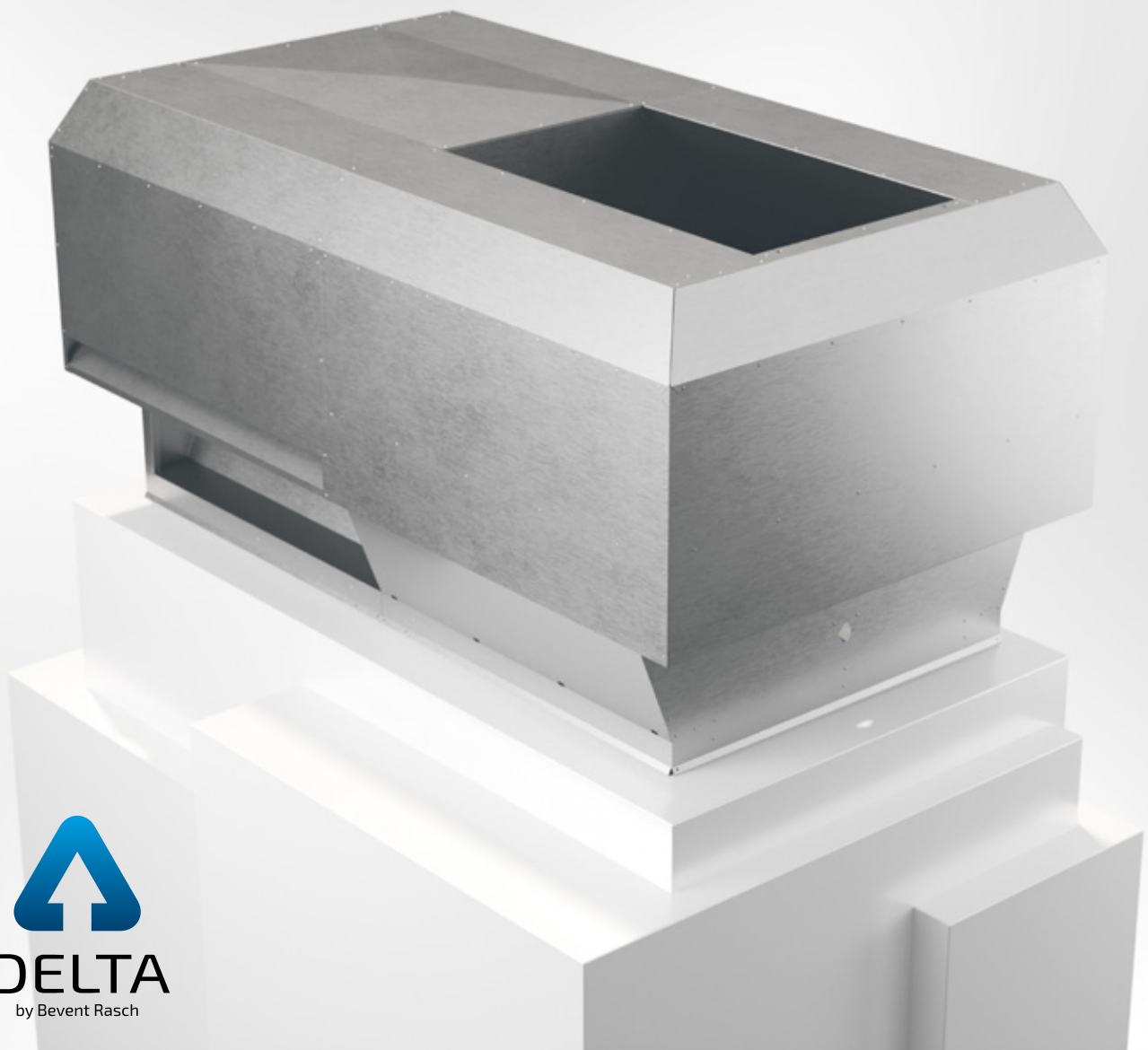


DELTA-KH

Combination Cowl



COWLS



19/08/2024



Combination Cowl DELTA-KH



Design is also available as Exhaust Air Cowl DELTA-AH and as Intake Air Cowl DELTA-UH.

Quick facts

- Sizes for flows from 100 l/s to 15.000 l/s
- Design similar to Exhaust Air Cowl DELTA-AH and Intake Air Cowl DELTA-UH
- Low pressure drop and good water separation
- Air intake well protected from rain
- Adjustable outlet as accessory
- Integrated lifting points
- Available in MagiCAD

Use

Combination cowl DELTA-KH is a combined intake air cowl and exhaust air cowl for use in comfort and industrial systems. The intake air and exhaust air sections are separated inside the cowl by a partition. The exhaust air side is designed for a low pressure drop in combination with very good water separation. In order to prevent the transfer of exhaust air to the intake air the combination cowl has a design feature allowing the exhaust air to rise straight up at increased speed. The intake air is taken in on the lower edge of the intake air section. The intake opening is covered with an insect-proof wire mesh. DELTA-KH is supplied as standard with integrated lifting points to facilitate installation. DELTA-KH can be equipped with roof inlet BRTF for passage and access through outer roofing. Eyebolts can be supplied if necessary (state in plain text when ordering).

Adjustable outlet

Adjustable outlet as accessory. This to optimize the outlet velocity.

Specification

Examples:

Combination Cowl **DELTA-KH - 300 - 5 - 0**

Size, see size table

Material:

Magnelis ZM120 C4 = 5

Stainless AISI 316L – EN 1.4404 = 3

Surface treatment:

Unfinished C3 = 0

Painted finish C4 = 1*

* Colour code should be stated in plain text, see www.bevent-rasch.com

Accessories:

Adjustable outlet, DELTA-SU

Roof inlet BRTF, see www.bevent-rasch.com

Material, surface treatment

The air cowl is manufactured as standard in Magnelis, corrosivity class C4 and can be supplied in the desired colour, see www.bevent-rasch.com. The air cowl can also be supplied in stainless steel AISI 316L (EN 1.4404).

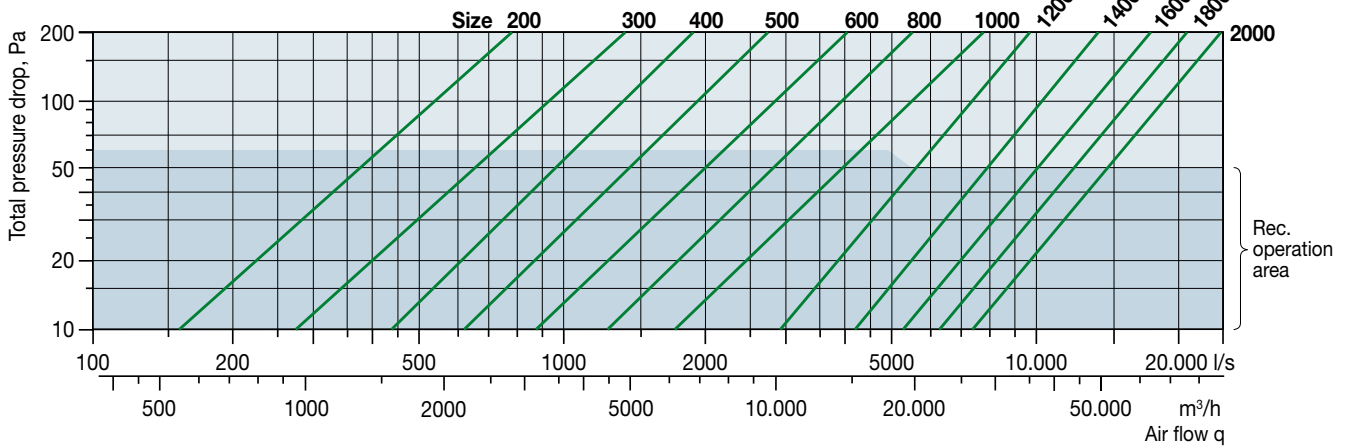
Special

The air cowl can be supplied in many different custom designs concerning dimensions, choice of material, etc. CFD-simulation can also be performed for custom designs. Please contact Bevent Rasch by email info@bevent-rasch.se.

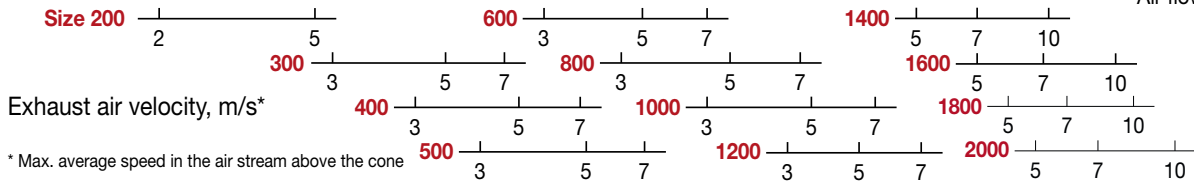
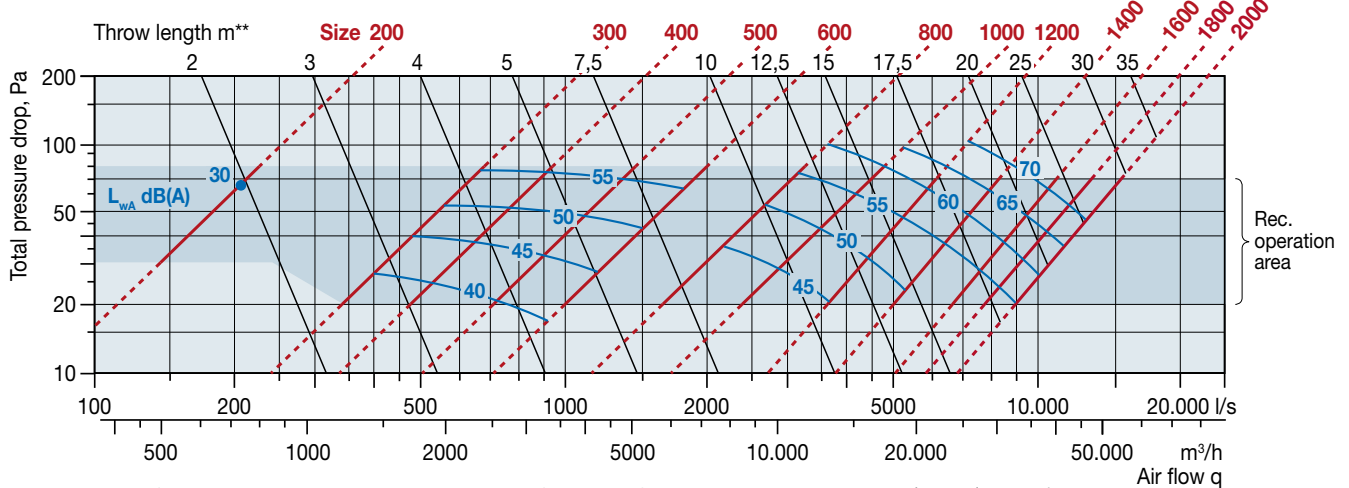


Selection chart

Intake air



Exhaust Air



* Max. average speed in the air stream above the cone
 ** Throw lengths are simulated and applied in windless conditions. The dimensions are defined in meters as the distance from the outlet of the hood to the point where the velocity of the air plume has decreased to 2 m/s

Correction of the sound power level, L_{wok} in octave band

$$L_{wok} \text{ (dB)} = L_{wA} + K_{ok}$$

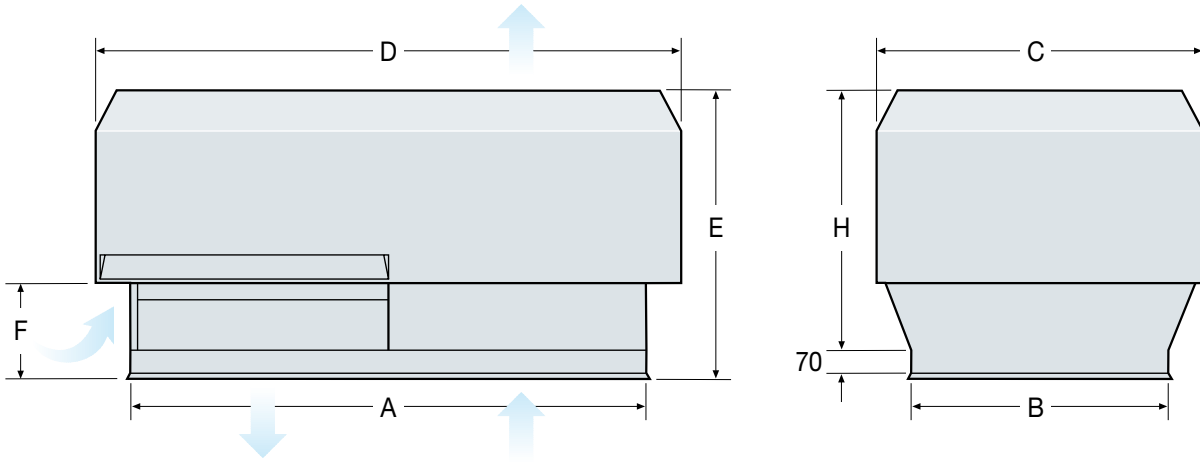
Octave-band	63	125	250	500	1000	2000	4000	8000
K _{ok}	4,4	3,1	0,5	-2,3	-5,6	-12,1	-14,4	-20,1

Reduction in sound pressure level depending on distance from roof cowl calculated on fully spherical propagation.

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



Dimensions



Size	A	B	C	D	E	F	H	BRTF	Weight kg
200	800	400	510	910	505	195	405	200	23
300	1000	500	635	1135	605	220	505	300	34
400	1200	600	760	1365	710	245	610	400	47
500	1400	700	890	1590	810	270	710	500	63
600	1600	800	1015	1820	910	300	810	600	81
800	2000	1000	1270	2270	1110	350	1010	800	122
1000	2400	1200	1530	2725	1315	405	1215	1000	172
1200	2800	1400	1780	3180	1520	455	1420	1200	246
1400	3200	1600	2035	3635	1720	510	1620	1400	316
1600	3600	1800	2290	4085	1920	560	1820	1600	395
1800	4000	2000	2545	4540	2125	610	2025	1800	482
2000	4400	2200	2800	4995	2325	665	2225	2000	578