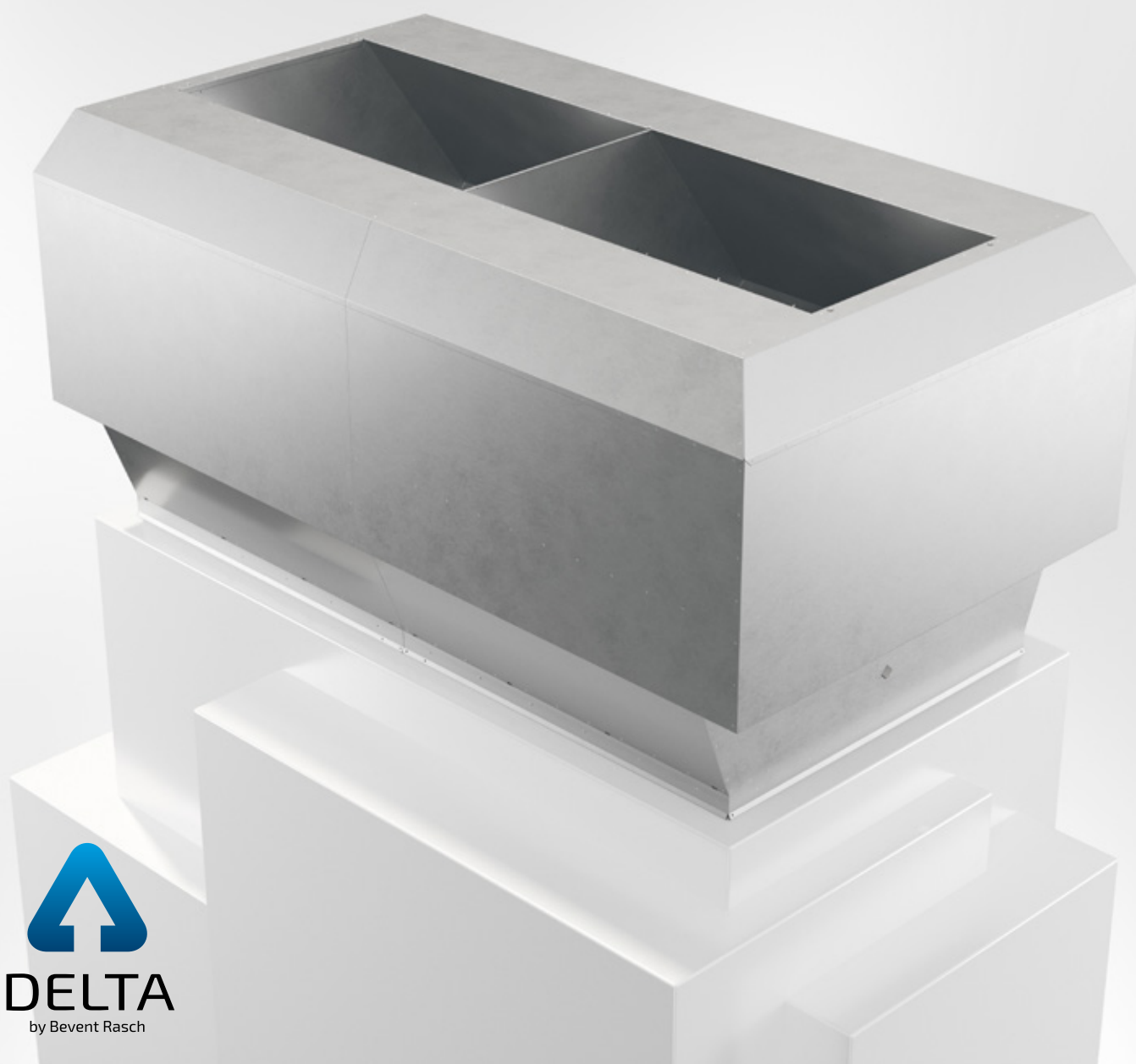


DELTA-DA

Exhaust Air Cowl



COWLS



19/08/2024



Exhaust Air Cowl DELTA-DA



This cowl design is also available as Exhaust Air Cowl DELTA-AH, Intake Air Cowl DELTA-UH and Combination Cowl DELTA-KH.

Quick facts

- Sizes for flows from 200 l/s to 30.000 l/s
- Design similar to Exhaust Air Cowl DELTA-AH, Intake Air Cowl DELTA-UH and Combination Cowl DELTA-KH
- Water separation class A according to EN13030
- Very low pressure drop
- Integrated lifting points
- Fits roof inlets BRTF and BRTK
- Adjustable outlet as accessory

Use

DELTA-DA is a double exhaust cowl for use with comfort and industrial air-conditioning units. DELTA-DA is designed for a low pressure drop in combination with documented good water separation. DELTA-DA has a design that allows the exhaust air to rise straight up at increased speed. Supplied as standard with integrated lifting points to facilitate installation. DELTA-DA is ideally installed on our roof inlet BRTF or BRTK if penetrating the outer roof. Eyebolts can be supplied if necessary (state in plain text when ordering).

Material, surface finish

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).

Specification

Examples:

Exhaust Air Cowl

DELTA-DA - 300 - 5 - 0

Size, see size table

Material:

Magnelis ZM120 C4

= 5

Stainless AISI 316L – EN 1.4404 = 3

Surface treatment:

Untreated C3

= 0

Surface treatment 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

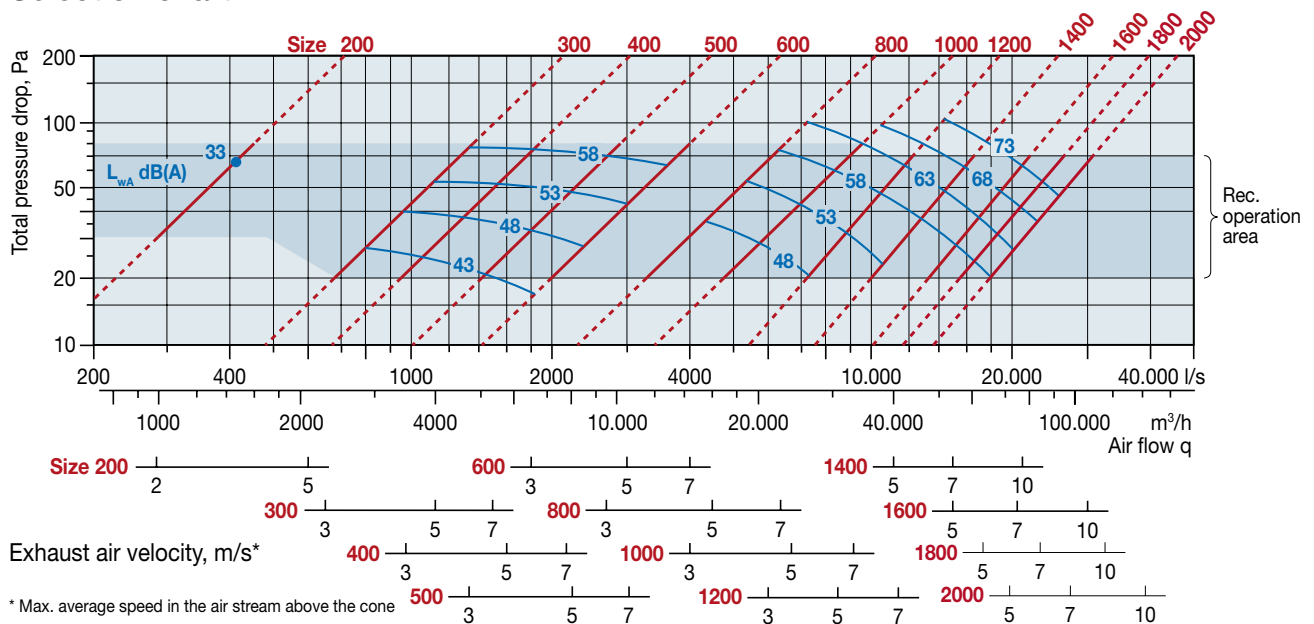
Roof inlet BRTK, see www.bevent-rasch.com

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.



Selection chart



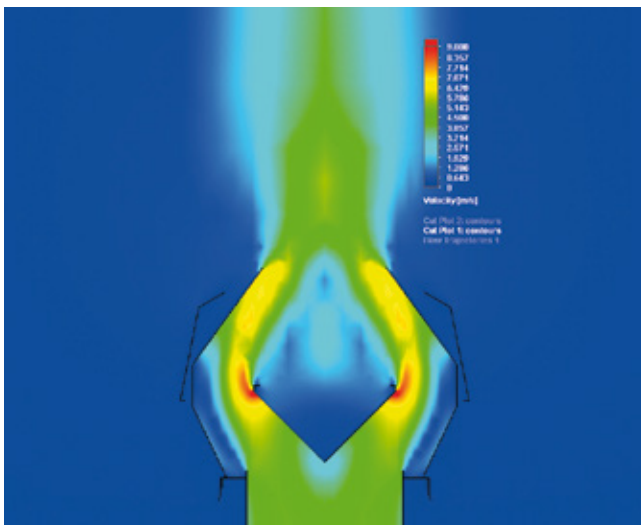
Correction of sound power level, $L_{w_{ok}}$ in octave band

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

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 half-spherical propagation.

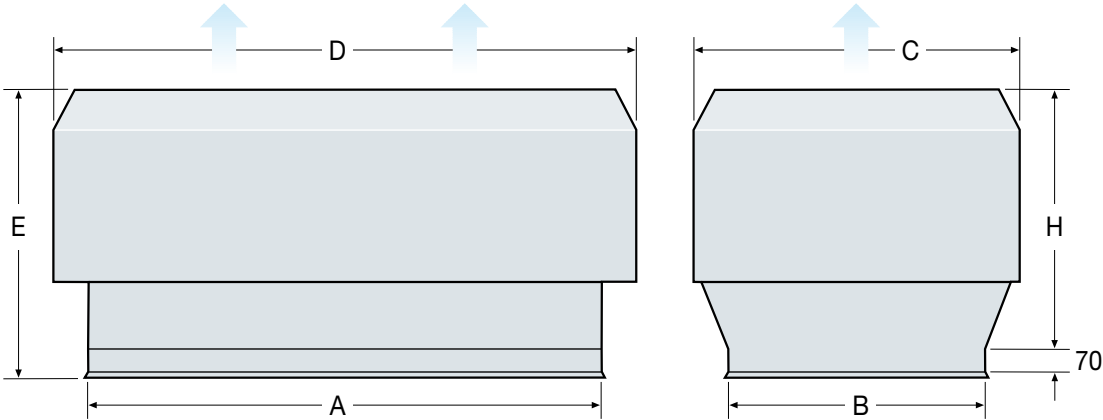
Distance, m	5	25	50	75	100	150
Reduction, dB(A)	-22	-36	-42	-45	-48	-52



We used the latest CFD technology when developing the DELTA series.



Dimensions



Size	A	B	C	D	E	H	Fits BRTF/ BRTK	Weight kg
200	800	400	510	910	505	405	200	28
300	1000	500	635	1135	605	505	300	44
400	1200	600	760	1365	710	610	400	60
500	1400	700	890	1590	810	710	500	80
600	1600	800	1015	1820	910	810	600	104
800	2000	1000	1270	2270	1110	1010	800	160
1000	2400	1200	1530	2725	1315	1215	1000	226
1200	2800	1400	1780	3180	1520	1420	1200	324
1400	3200	1600	2035	3635	1720	1620	1400	418
1600	3600	1800	2290	4085	1920	1820	1600	524
1800	4000	2000	2545	4540	2125	2025	1800	642
2000	4400	2200	2800	4995	2325	2225	2000	772