BRSK

Combination Cowl

COWLS

02/03/2022

BEVENT RASCH

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Combination Cowl BRSK

Quick facts

- Sizes from 200 mm to 2000 mm
- Design equal to Exhaust Air Cowl BRSF and Intake Air Cowl BRSI
- Internal water deflector
- Suitable for Roof inlet BRTF
- Galvanized sheet steel as standard
- Available in powder coated finish corrosivity class C4
- The cowl can be customized
- Available in MagiCAD

Use

BRSK is a combined intake and exhaust air cowl for use in air conditioning and industrial plants. It has a design that resembles a traditional chimney.
In the cowl, the intake and exhaust air sections are separated by a partidion. The discharge side features an internal water separator that prevents the entry of water when the exhaust fan is not in operation. To avoid the transfer of exhaust air to intake air, the combination cowl has a design that enables the discharge air to attain increased speed straight up. The intake air is taken in through removable louver inserts. These are equipped with rodent screens on the inside. BRSK can be equipped with roof inlet BRTF for passage and access through outer roofing. Eyebolts can be supplied as accessories.

Water separation

The limit for water penetration is 2,0 m/s, calculated for the total louver area. Grilles are of the type BRYH, with improved water deflection.

Material, surface treatment

The air cowl is manufactured as standard in galvanized sheet steel and can also be supplied in a painted finish (C4) in any colour, see www.bevent-rasch.com
The air cowl can also be supplied in Magnelis or in stainless steel EN 1.4404 (AISI 316L).

Specification

Example:
Combination Cowl **BRSK - 300 - 1 - 0**

Size, see size table

Material:
Galvanized sheet steel = 1
Stainless AISI 316L – EN 1.4404 = 3
Magnelis = 5

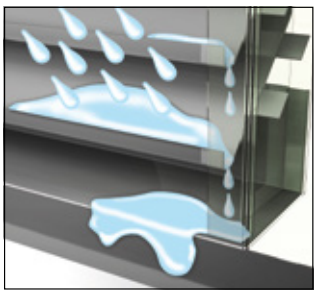
Surface treatment:
Unfinished = 0
Powder coated = 1*

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

Accessories:
Roof inlet BRTF

Special

The air cowl can be supplied in many different custom designs in terms of dimensions, choice of material, etc. Contact Bevent Rasch.
The cowl can be constructed solely for intake air or for discharge air.



Drains on the front edges of the slats divert water to the sides and out at the bottom of the grille.

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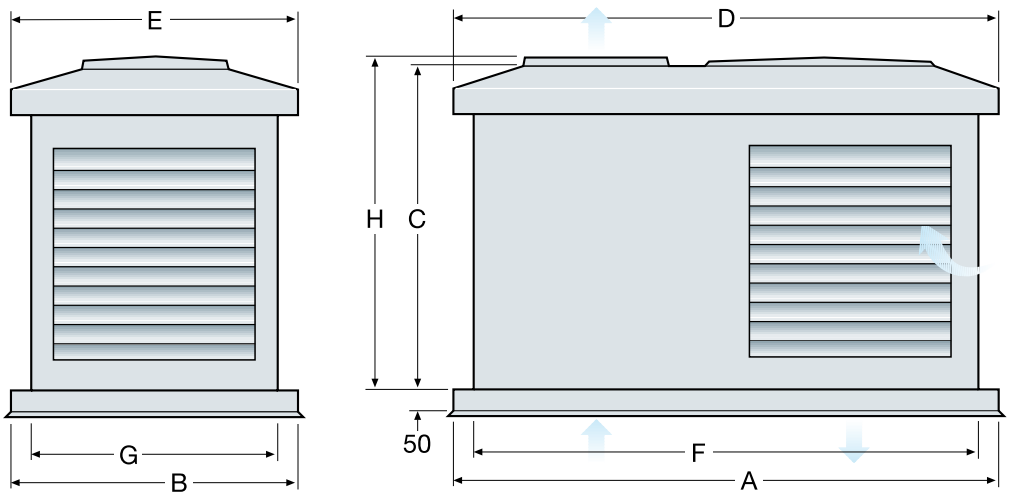
Dimensions

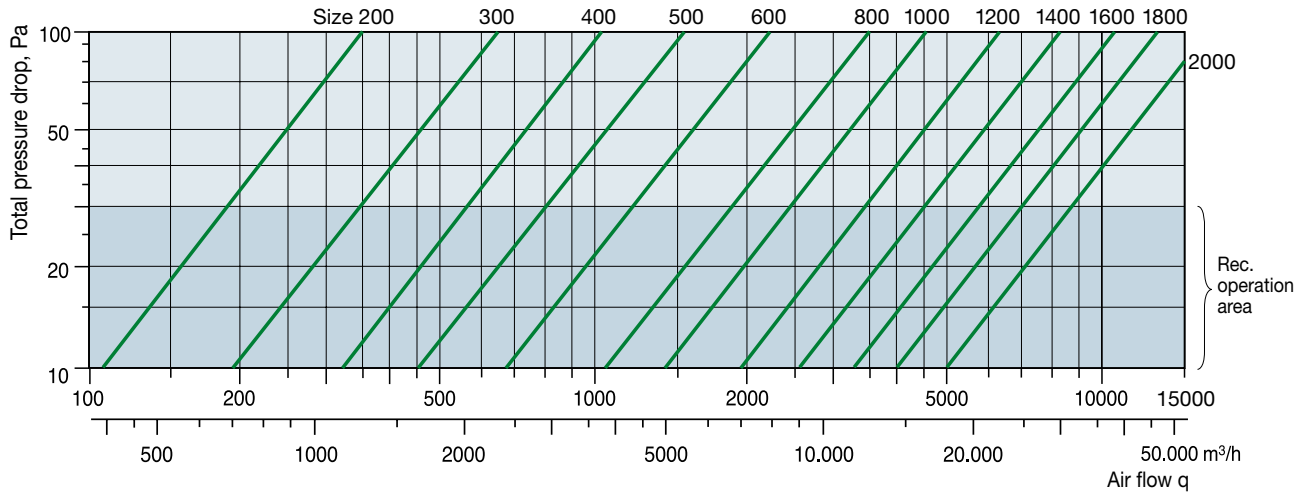


Size	A	B	C	D	E	F	G	H	Fits BRTF	Weight kg	Total area int. grille m²
200	750	400	600	750	400	650	300	600	200	24	0,15
300	950	500	650	950	500	850	400	650	300	33	0,28
400	1150	600	700	1150	600	1050	500	700	400	43	0,45
500	1350	700	800	1350	700	1250	600	800	500	60	0,65
600	1550	800	900	1550	800	1450	700	900	600	75	0,95
800	1950	1000	1000	1950	1000	1850	900	1000	800	136	1,53
1000	2350	1200	1050	2350	1200	2250	1100	1160	1000	171	1,95
1200	2750	1400	1100	2750	1400	2650	1300	1330	1200	210	2,72
1400	3150	1600	1200	3150	1600	3050	1500	1530	1400	262	3,59
1600	3550	1800	1300	3550	1800	3450	1700	1620	1600	320	4,59
1800	3950	2000	1400	3950	2000	3850	1900	1790	1800	383	5,71
2000	4350	2200	1500	4350	2200	4250	2100	1900	2000	438	6,95

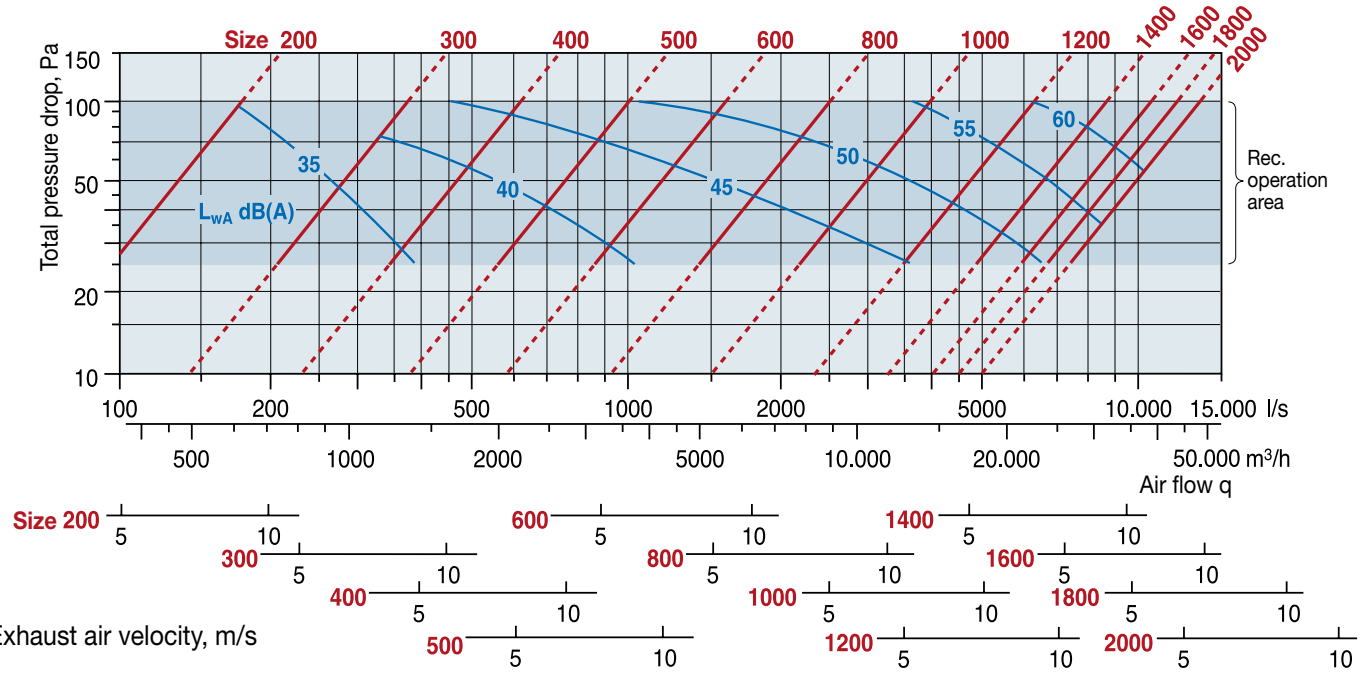
NOTE! The exhaust air cone on large cowls may look different than according to the dimensional sketch, see difference between C and H dimensions in the table.

Selection chart

Intake air



Exhaust air



Exhaust air velocity, m/s

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

$L_{wok} = L_{wA} + K_{ok}$

Octave band	125	250	500	1000	2000	4000	8000
K_{ok}	2	0	-3	-9	-14	-16	-24

Reductions in sound power level as dependent on distances from the roof cowl, calculated at fully spherical propagation.

Distance, m	25	50	75	100	150
Reduction, dB(A)	-39	-45	-48	-51	-55

12-0433_ENG / March 2022 teamfront.se

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