

DELTA-SU

Adjustable exhaust air speed function
– Accessory



COWLS



03/03/2022





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

Quick facts

- Adjustable exhaust air speed function
- Accessory for DELTA-AH, DA and -KH

Function description

DELTA-SU is an accessory designed for the DELTA-AH, -DA and -KH models. DELTA-SU enables the exhaust air speed to be regulated. The setting on DELTA-SU is easily adjusted using hand tools and is calculated from the applicable airflow. The setting is easily adjusted and adapted to changing needs.

Use

The adjustable exhaust air speed is ideal for installations where increased exhaust air speed is desirable or when construction takes place in phases and air flow needs will vary over time.

Setting

DELTA-SU size 200-1000:

The exhaust air speed can be increased by 50%.

DELTA-SU size 1200-2000:

The exhaust air speed can be increased by 40%.

Material, surface finish

DELTA-SU is supplied as standard made from hot-dip galvanized sheet steel in corrosion protection class C3, but can be supplied with corrosion protection class C4 in the desired paint colour, see www.bevent-rasch.com

The cowl can also be supplied in the new material Magnelis in corrosivity class C5, Aluzinc AZ185 or stainless steel AISI 316L (EN 1.4404).

Specifications

Examples:

Exhaust Air Cowl **DELTA-SU - 300 - 1 - 0**

Size, refer to dimension table

Material:

| | |
|---------------------------------|-----|
| Galvanized sheet steel | = 1 |
| Stainless AISI 316L – EN 1.4404 | = 3 |
| Aluzinc AZ185 | = 4 |
| Magnelis C5 | = 5 |

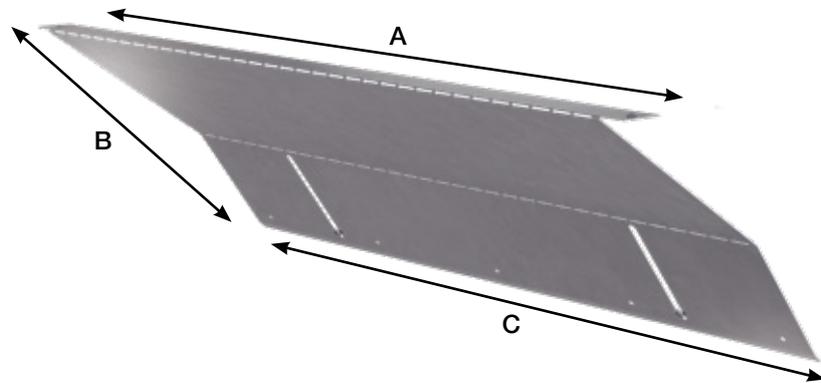
Surface treatment:

| | |
|----------------------|------|
| Untreated | = 0 |
| Surface treatment C4 | = 1* |

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



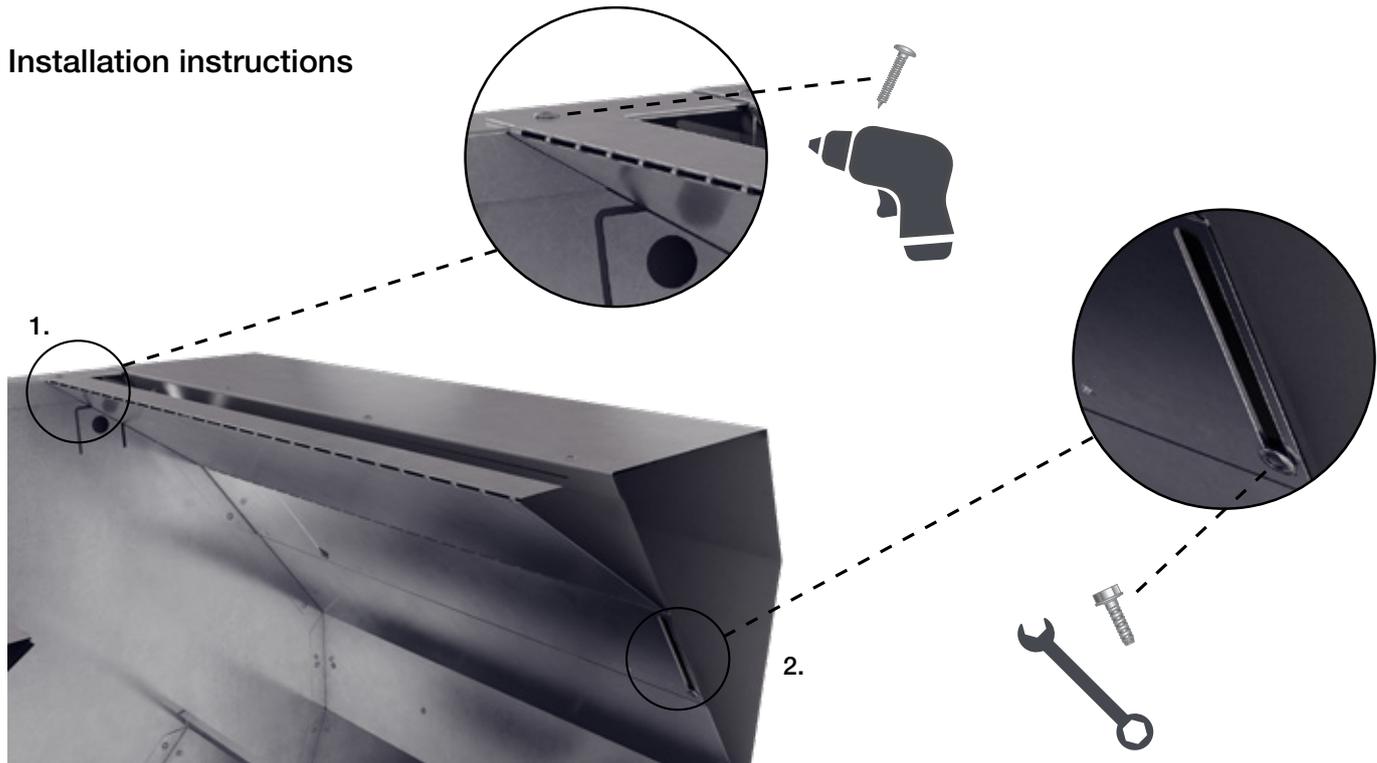
Dimensions



| Size | A | B | C | Fits DELTA-AH/-DA/-KH | Weight kg |
|------|------|-----|------|--------------------------|--------------|
| 200 | 440 | 185 | 390 | 200 | 3 |
| 300 | 540 | 230 | 490 | 300 | 4 |
| 400 | 640 | 273 | 590 | 400 | 5 |
| 500 | 740 | 308 | 690 | 500 | 5 |
| 600 | 840 | 360 | 790 | 600 | 6 |
| 800 | 1040 | 448 | 990 | 800 | 7 |
| 1000 | 1240 | 535 | 1190 | 1000 | 10 |
| 1200 | 1440 | 404 | 1390 | 1200 | 13 |
| 1400 | 1640 | 456 | 1590 | 1400 | 16 |
| 1600 | 1840 | 508 | 1790 | 1600 | 19 |
| 1800 | 2040 | 560 | 1990 | 1800 | 22 |
| 2000 | 2240 | 612 | 2190 | 2000 | 26 |



Installation instructions



The accessory DELTA-SU is easily installed using hand tools.

DELTA-SU is placed inside the cowl outlet and attached to the attachment points inside the cowl.

1. Set DELTA-SU to the desired position and lock into place with metal screws in the top of the cowl.
2. Then lock DELTA-SU into place with the bolts on the inside of the cowl.
 - The bolts on the inside of the cowl are M6 x 12 with hex heads.
 - The bolts are set in the slotted grooves found on that part. 2 bolts for sizes 200-1000 and 4 bolts for sizes 1200-2000.
 - The bolts are tightened with a 10 mm wrench.

Calculate the desired exhaust air speed using the formula:

$$\frac{q}{v} = A$$

q = Flow, m³/s

v = Desired exhaust air speed, m/s

A = Exhaust area, m²

Next, calculate and mark up the desired exhaust area on the cowl and mount DELTA-SU as per the installation instructions.