

# ALV

Commissioning box for wall diffusers



## QUICK FACTS

- Used for the following wall diffusers: COLIBRI W, EAGLE W, LOCKZONE W and PELICAN W.
- Simple commissioning, fixed measurement tappings.
- Cleanable, removable damper.

# Technical description

## Design

Contains removable commissioning damper, fixed measurement tapplings and air distribution baffle. The commissioning box is available with two different connection options: rear and side connection respectively. Air tightness class according to SS-EN 12237 and VVS/AMA 12, class C.

## Materials and surface treatment

The ALV commissioning box is made of galvanized sheet steel and has internal sound absorbent insulation\*\*) with reinforced surface layer.

\*\*)Fire-resistance graded to B-s1,d0 in accordance with EN ISO 11925-2.

## Accessories

### Frame:

ALVT 1. For the aesthetic installation of the ALV commissioning box.

## Project design

Technical data are available in combination with each air diffuser.

## Assembly

See Figure 1.

1. Cut an opening in the wall according to the wall opening dimensions specified.
2. Place the commissioning box in the opening.
3. Apply sealing compound between the commissioning box and the mounting frame to prevent air leakage. Insert the mounting frame into the commissioning box and secure it with screws in the short sides to the commissioning box and to the wall structure.

4. The assembly and dismantling of the component parts are shown in Figure 1.

5. Press the diffuser face to engage it in the mounting frame.

## Commissioning

Commissioning should be carried out with the wall terminal face mounted. Pull the measuring tube and damper adjustment cords out of the wall terminal through the front. Connect a pressure gauge to the measuring tube. The desired commissioning pressure can be calculated using the rated coefficient of performance (K-factor) of the wall terminal. Set the damper to the correct blade position, tie a commissioning knot in the damper cords to indicate the damper position, then lock the cords.

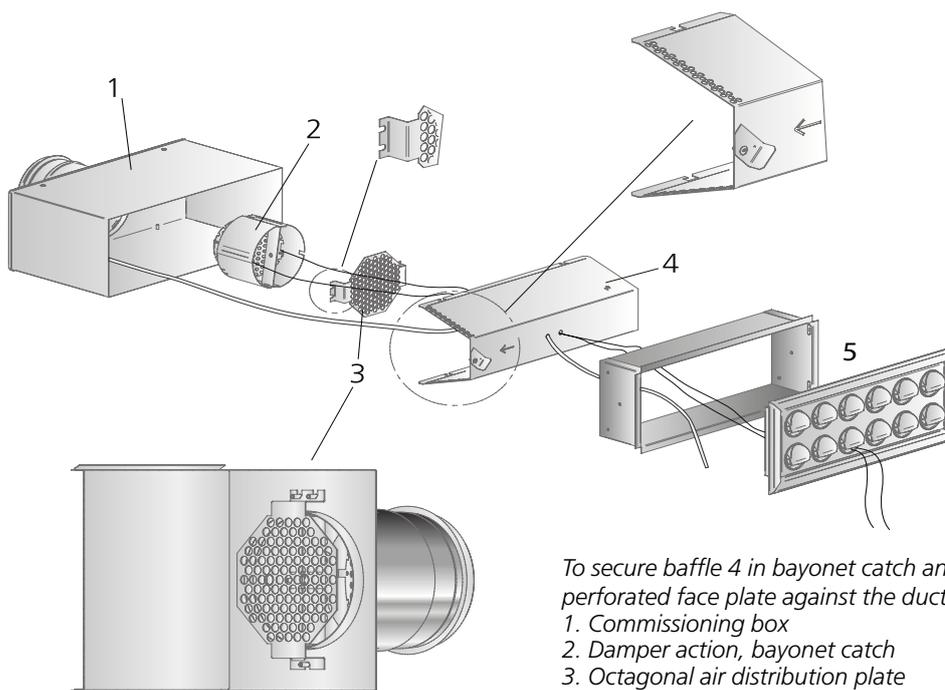
## Maintenance

The commissioning box has a removable commissioning damper, which enables cleaning of the duct system via the commissioning box. The interior surfaces of the box can be cleaned by vacuum cleaning using a brush nozzle. Turn the distribution plate inside the commissioning box to the side for access of the tubular damper casing.

Grab the handle of the tubular damper casing and rotate it out of its bayonet holder. For more info, please see the Installation and maintenance instructions for the relevant air diffuser.

## Environment

The Building Material Declaration is available for downloading at [www.swegon.com](http://www.swegon.com).



To secure baffle 4 in bayonet catch and to secure the octagonal perforated face plate against the duct connection.

1. Commissioning box
2. Damper action, bayonet catch
3. Octagonal air distribution plate
4. Air distribution plate
5. Mounting frame + air diffuser

Figure 1. Installation.

# Dimensions and weights

## ALV

| Size    | ØD  | F       | G       | G2      | K   | L       | M       | I x J     | Weight, K model, kg | Weight, B model, kg |
|---------|-----|---------|---------|---------|-----|---------|---------|-----------|---------------------|---------------------|
| 300-150 | 99  | 295-375 | 225-305 | 270-350 | 85  | 145-225 | 195-275 | 305 x 155 | 2,6                 | 2,4                 |
| 400-150 | 124 | 295-375 | 225-305 | 331-411 | 85  | 180-260 | 240-320 | 405 x 155 | 3,5                 | 3,0                 |
| 400-200 | 159 | 315-395 | 225-305 | 331-411 | 100 | 145-225 | 225-305 | 405 x 205 | 4,0                 | 3,5                 |
| 550-250 | 199 | 360-440 | 251-331 | 371-451 | 120 | 145-225 | 245-325 | 555 x 255 | 5,9                 | 5,0                 |
| 550-300 | 249 | 385-465 | 251-331 | 425-505 | 145 | 145-225 | 275-355 | 555 x 305 | 7,1                 | 5,9                 |

## ALVT 1 frame

| Size    | A   | B   | L   |
|---------|-----|-----|-----|
| 300-150 | 330 | 180 | 230 |
| 400-150 | 430 | 180 | 230 |
| 400-200 | 430 | 230 | 230 |
| 550-250 | 580 | 280 | 255 |
| 550-300 | 580 | 330 | 255 |

## Ordering key

### Product

Commissioning box ALV e -aaa-bbb-ccc -d

### Version

For sizes: ALV  
 300-150 300-150-100  
 400-150 400-150-125  
 400-200 400-200-160  
 550-250 550-250-200  
 550-300 550-300-250

### Connection options:

B = Rear  
 K = Short side

## Specification text

Swegon's ALV commissioning box with the following functions:

- Removable commissioning damper
- Method of measurement with low systematic error
- Internal sound absorbing lining with fibre-migration-proof surface layer

Size: ALVe aaa-bbb-ccc-d xx items

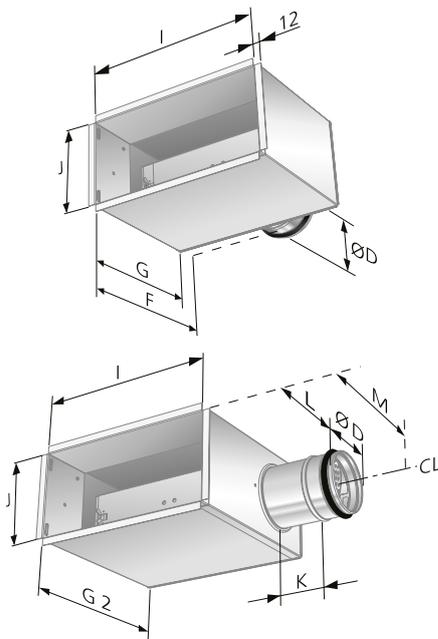


Figure 2. ALV commissioning box.

B = Rear connection, K = Connection on short side, CL = Centre line.

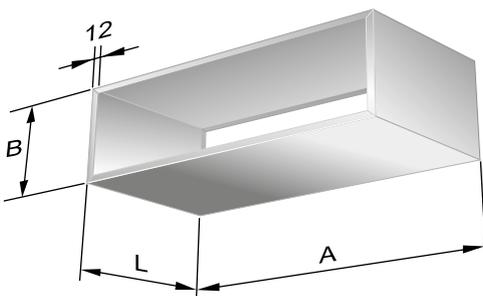


Figure 3. ALVT 1 frame.