

ROW_b

Installation – Commissioning – Maintenance

20160630

Installation

- Installation with the ROWT, see page 1, Figure 1.
- Installation with the ALV, see page 2, Figure 2.

Installation with the ROWT

1. The ROWT 1 commissioning box and the ROWT 2 connecting duct should be built into the wall. Cut the opening in the wall structure for the ROW supply air wall terminal according to the dimensions specified in the dimension table and the dimension print.
2. Insert the mounting plate into the ROWT 1 commissioning box.
3. Mark the positions for the bore holes.
4. Bore the screw holes.
5. Secure the mounting plate with screws to the wall.
N.B.! The screwheads should have a height of max. 4 mm above the plate surface.
6. Secure the wall terminal face using steel blind rivets.

Commissioning with the ALV

Commissioning should be carried out with the wall terminal face mounted. Pull the measurement hose and damper adjustment cords out of the wall terminal through the perforation. Connect a manometer 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 against the locking screw in the air distribution baffle. See Figure 2.

If the ROWT connecting duct accessory is used, we recommend installing a type CRM commissioning damper upstream of the wall terminal for adjusting the airflow rate.

The K-factor (COP) is specified on the product's identification label. K-factors are also specified in the relevant commissioning instructions available for download at www.swegon.com.

Maintenance

The wall terminal can be cleaned, if necessary, using lukewarm water with dishwashing detergent added or by vacuum cleaning using a brush nozzle. The duct system is accessed for cleaning by boring out the steel blind rivets and then withdrawing the wall terminal out of its spring retainers. If an ALV commissioning box is used, withdraw the acoustic baffle, move the distribution plate to the side, turn and withdraw the damper from its holder from the inlet. See Figure 2.

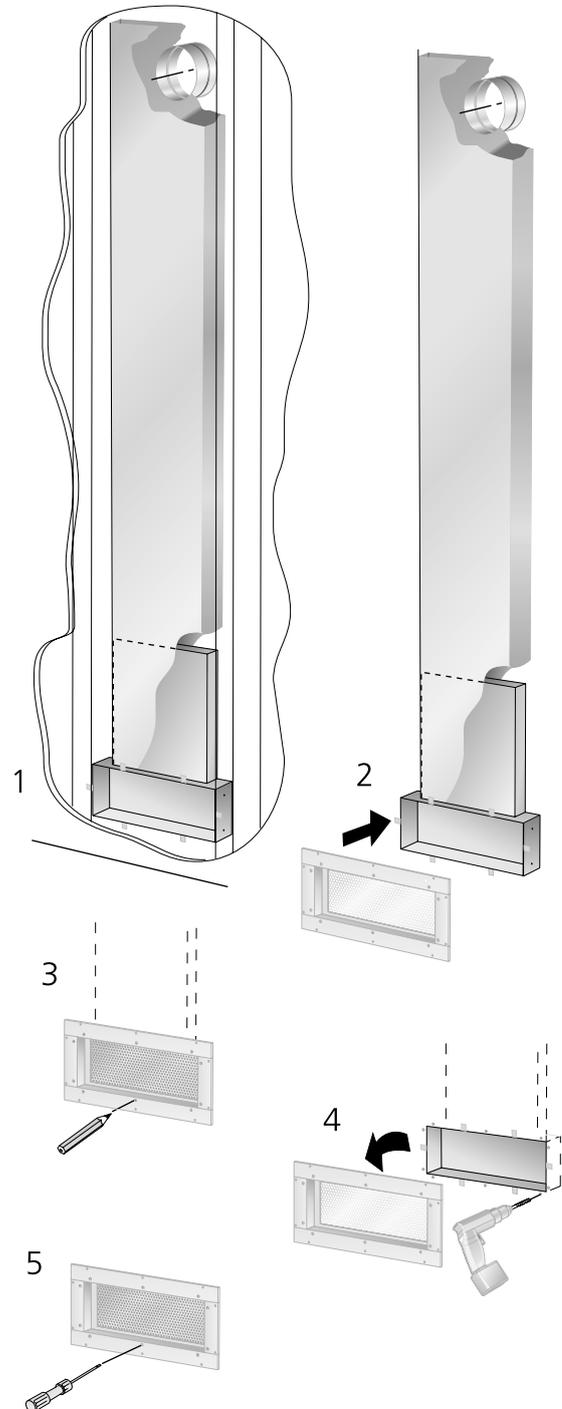
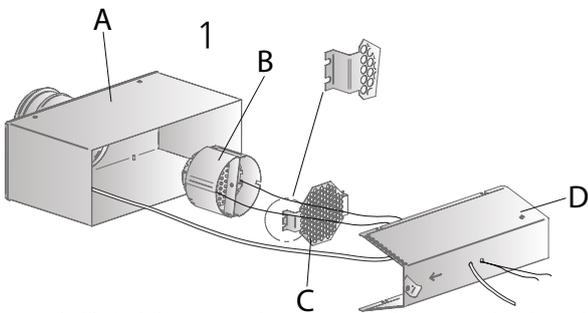


Figure 1. ROW + ROWT 1

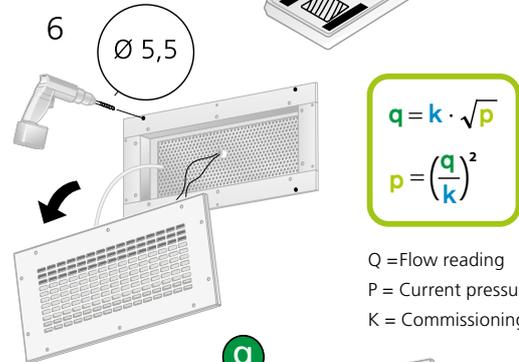
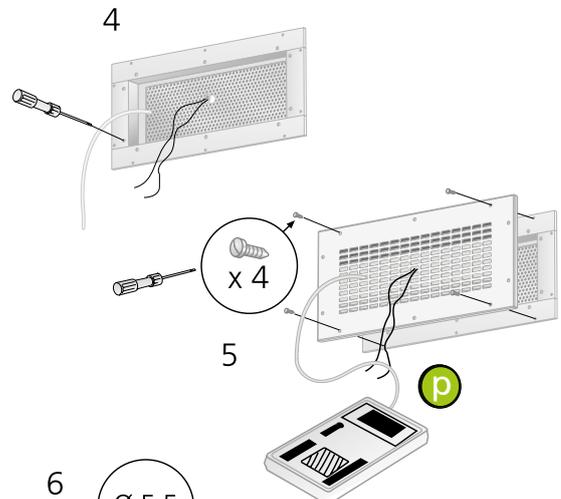
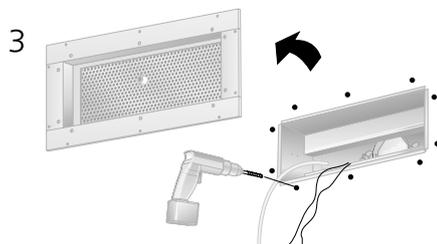
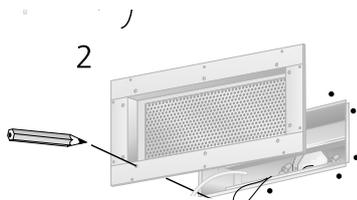
Installation with the ALV

1. Cut an opening in the wall according to the dimensions specified in the dimension table and the dimension print. Place the ALV commissioning box in the opening. Insert the mounting frame into the commissioning box and secure it with screws in the short sides through the sides of the commissioning box and into the wall structure.
2. Insert the measurement hose and the cord for damper adjustment through the air distribution plate in the mounting plate and press it into the mounting frame. The mounting frame is held in place by its spring retainers. Mark the positions for the bore holes.

3. Bore screw holes in the wall.
4. Secure the mounting plate with screws to the wall.
5. Commissioning is carried out with the wall terminal face temporarily secured with the screws supplied. See Commissioning.
6. Bore the screw holes in the mounting plate for the temporary attachment using a 5.5 mm twist drill. The measurement hose and the commissioning cord can be removed, if necessary, by cutting them off, level with the air distribution plate. Or they can be pushed in behind the air distribution plate.
7. Secure the wall terminal face using steel blind rivets.



To secure baffle (D) in bayonet catch and to secure the octagonal perforated face plate (C) against the duct connection.
 A. Commissioning box
 B. Damper action, bayonet catch
 C. Octagonal air distribution plate
 D. Air distribution plate



Q = Flow reading
 P = Current pressure reading
 K = Commissioning factor

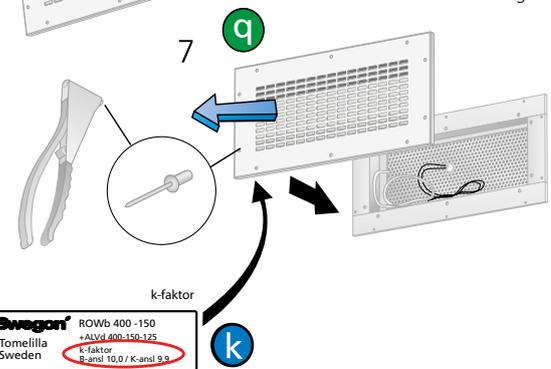


Figure 2. ROW + ALV.

Dimensions and weights

ROW + ROWT 1 + ROWT 2

Size	Dimensions (mm)					
	A	B	C	D	E	F
400x150	480	230	395	145	300	50
500x200	580	280	495	195	350	50

Size	Dimensions (mm)			Weight (kg)
	G	H*)	ØD	
400x150	80	86	124	13,5
500x200	80	105	159	18,0

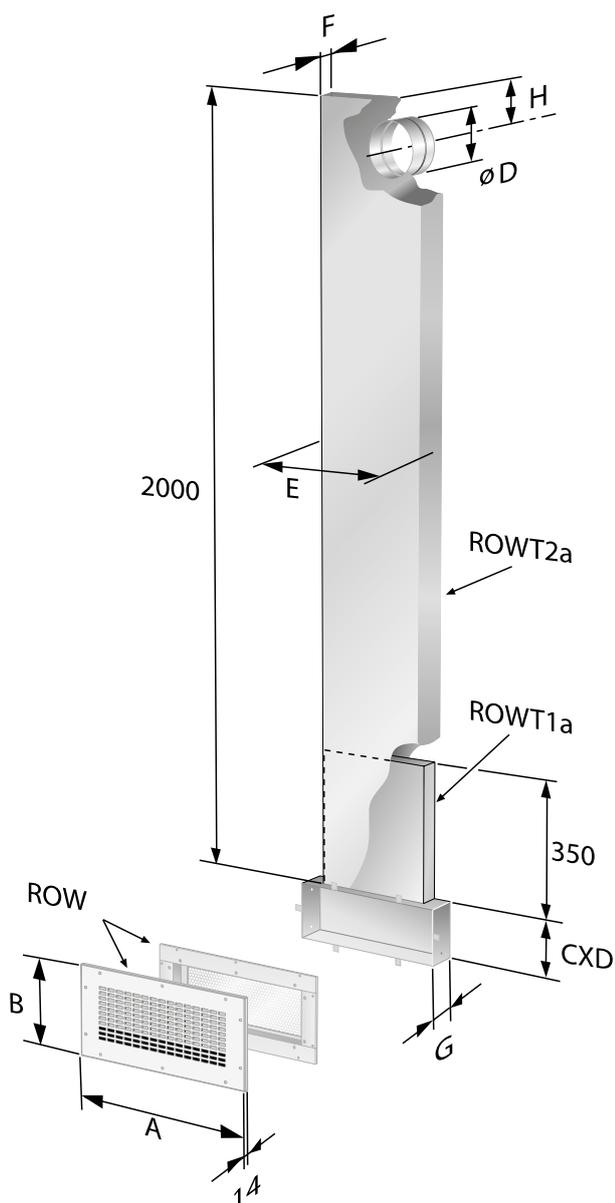


Figure 3. ROW + ROWT 1 and ROWT 2.

ROW + ALV

Size	Dimensions (mm)					
	A	B	ØD	F	G	G2
400x150	480	230	124	295	225	331
400x200	480	280	159	315	225	331

Size	Dimensions (mm)					Weight, kg
	K*)	L	M*)	I	J	
400x150	85	180	240	405	155	6,0
400x200	100	145	225	405	205	6,5

CL = Centre line / Size of the opening = I x J

*) The H, K, L and M dimensions apply to a side-connected commissioning box.

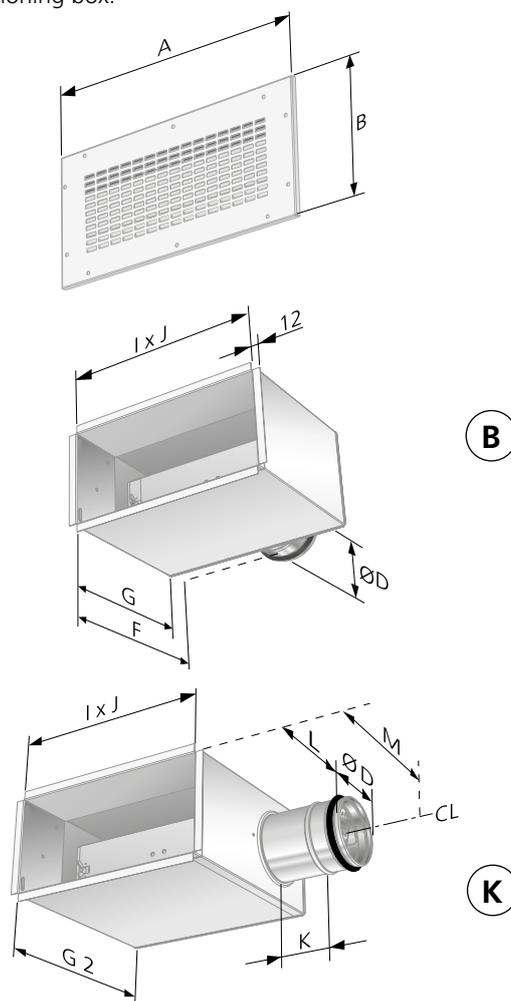


Figure 4. ROW + ALV.

K-factor – ROW with ALV

ALVe	ROWb – supply air		
Size	Size	B	K
400-150-125	400-150	10	9,9
400-200-160	400-200	15	14,3

Connection options: B = backside, K = short side
 Number of measurement hoses: 1 / Colour of the hose: Transparent