

COLIBRI Wall b

Installation – Commissioning – Maintenance

20210525

Accessories

Commissioning box:

ALV. Made of galvanized sheet steel. Contains removable commissioning damper, fixed measurement tapping and air distribution baffle. The commissioning box is available with two different connection options: rear and side connection respectively.

Cover plate:

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

Installation

Cut an opening in the wall according to the wall opening dimensions specified.

Place the commissioning box in the opening.

Insert the mounting frame into the commissioning box and secure it by means of screws in the short sides to the commissioning box and to the wall structure.

The assembly and dismantling of the component parts are shown in Figure 3.

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

See Figure 3.

Nozzle settings

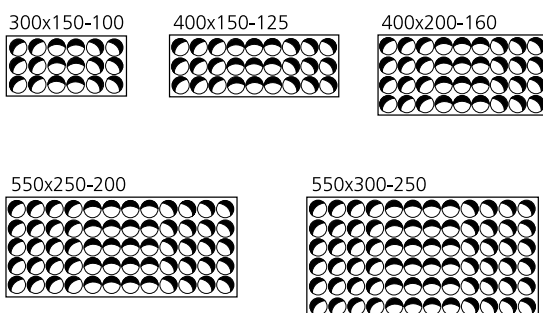


Figure 1. Standard nozzle pattern. (Short throw length)

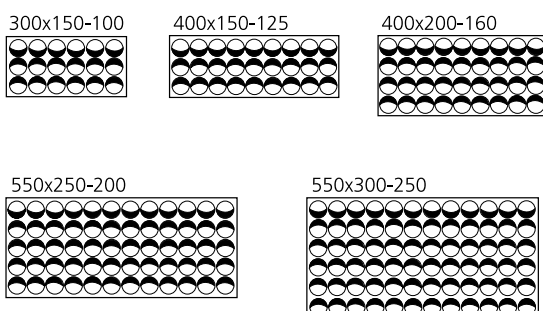


Figure 2. Nozzle pattern, long throw length.

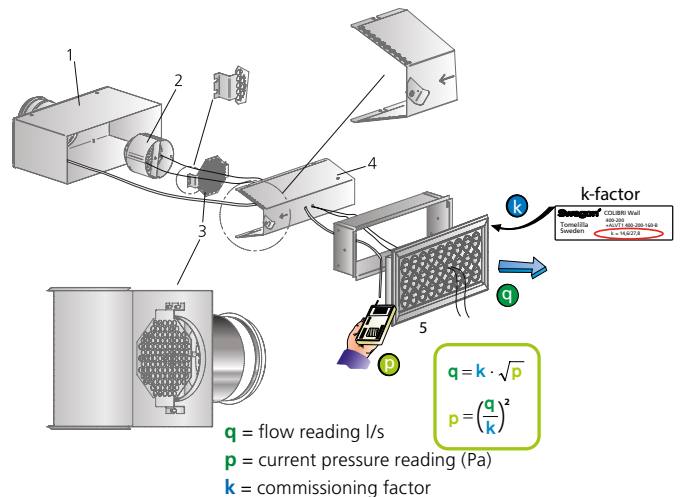


Figure 3. Installation, commissioning.

To secure baffle (4) in bayonet catch and to secure the octagonal perforated face plate (3) 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

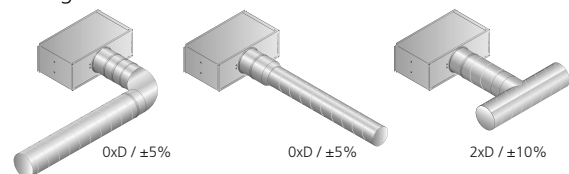


Figure 4. Installation alternatives, applies for all connections (B, K)

Commissioning

Commissioning must be carried out with the diffuser face in place. Pull the measuring hose and damper adjustment cords out of the air diffuser through a nozzle. Connect a manometer to the measurement hose. The desired commissioning pressure be computed by applying the rated coefficient of performance of the air diffuser. 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.

The rated coefficient of performance (K-factor) is specified on the identification label of the product and in the relevant commissioning instructions at our website.

Maintenance

Clean the air diffuser when necessary using lukewarm water with added detergent. The duct system can be accessed after opening the diffuser face by pulling it down from the upper edge, withdrawing the air distribution baffle and lowering the fully open damper. See Figure 3.

Dimensions and weight

COLIBRI Wall

Size	Dimensions (mm)										Weight (kg)
	A	B	ØD	F	G	G2	K	L	M	I x J	
300-150	330	180	99	295-375	225-305	270-350	85	145-225	195-275	305 x 155	3,0
400-150	430	180	124	295-375	225-305	331-411	85	180-260	240-320	405 x 155	3,5
400-200	430	230	159	315-395	225-305	331-411	100	145-225	225-305	405 x 205	4,0
550-250	580	280	199	360-440	251-331	371-451	120	145-225	245-325	555 x 255	6,5
550-300	580	330	249	385-465	251-331	425-505	145	145-225	275-355	555 x 305	7,5

The G2, K, L and M dimensions are applicable to a side-connected commissioning box.

Size of opening = I x J

CL = Center line

ALVT 1

Size	Dimensions (mm)		
	A	B	N
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

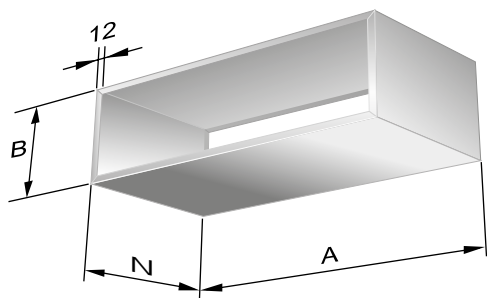


Figure 5. Cover plate ALVT 1.



Figure 6. Open slot

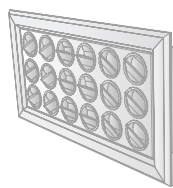


Figure 7. Closed slot

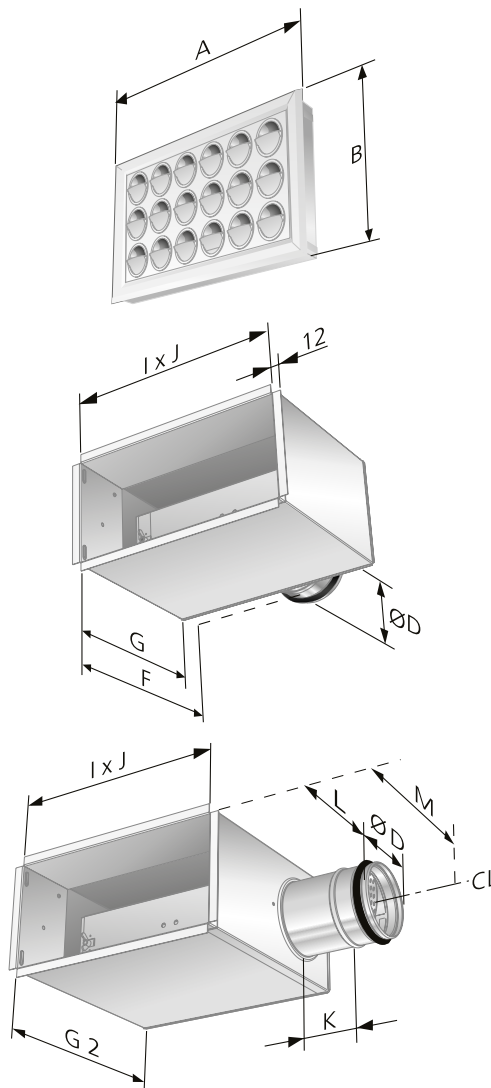


Figure 8. COLIBRI Wall ALV commissioning box.

K-factor

ALVe Size	COLIBRI Wall – supply air				
	Size	Connection – rear		Connection – short side	
		Closed slot	Open slot	Closed slot	Open slot
300-150-100	300-150	5,4	7,1	5,1	6,6
400-150-125	400-150	7,8	9,9	7,6	9,4
400-200-160	400-200	10,2	12,7	10,1	12,4
550-250-200	550-250	16,9	20,5	16,5	20,0
550-300-250	550-300	19,8	23,7	19,6	23,5