

EIV_d

Installation – Commissioning – Maintenance

20150101

Accessories

Commissioning box:

ALS. Manufactured in galvanized sheet steel. Contains removable commissioning damper, fixed measurement unit and acoustic lining with reinforced surface layer, to Fire Resistance Class B-s1,d0 according to EN ISO 11925-2.

Installation

Cut the opening in the wall according to the dimensions specified in the dimension print. Remove the front casing panel. Secure the bottom section with screws to the wall or fix it by connecting it to the ductwork. Mount the rear mounting plate so that the air deflector package is seated either vertically or horizontally. If an ALS commissioning box is used, the sleeve coupling between the ALS and the EIV can be lengthened using an ordinary circular duct of up to 500 mm without having to lengthen the measuring tubes and damper adjustment cords. See Figure 1.

Commissioning with the ALS commissioning box

Commissioning must be carried out with the air diffuser mounted. Pull the measuring tubes and damper adjustment cords out of the air diffuser through one of the diffuser's air deflectors. Then connect the manometer to the correct measuring tube(s). The red and the blue tubes respectively from the ALS commissioning box of the one or two-step version are used for supply air. For extract air, always use the transparent tube. The rated coefficient of performance of the air register can be used in a calculation to determine the required commissioning pressure. Conclude commissioning by adjusting the damper to the correct blade position, tie a commissioning knot in the damper cords to indicate the damper position. See Figure 1.

Measurement accuracy and requirement on straight duct before the commissioning box, see Figure 1. The requirements of straight duct depends on the type of disturbance before the commissioning box. Figure 1 shows a bend, a dimensional change and a T-piece. Other types of disturbances requires at least 2xD straight (D = connection dimension) for measurement accuracy of ± 10% of the flow.

The rated coefficient of performance (K-factor) is specified on the identification label of the product, last in this document and in the relevant commissioning instructions at www.swegon.com.

Maintenance

The air diffuser can be cleaned, if necessary, using lukewarm water with dishwashing detergent added or by vacuum cleaning using a brush nozzle. The duct system can be reached for cleaning by pulling off the front plate and lifting the air deflector package out of its holder. If a type ALS commissioning box is used, swing the distribution plate to the side on so that you then can grip the handle of the tubular damper casing and rotate it out of its holder. See Figure 1.

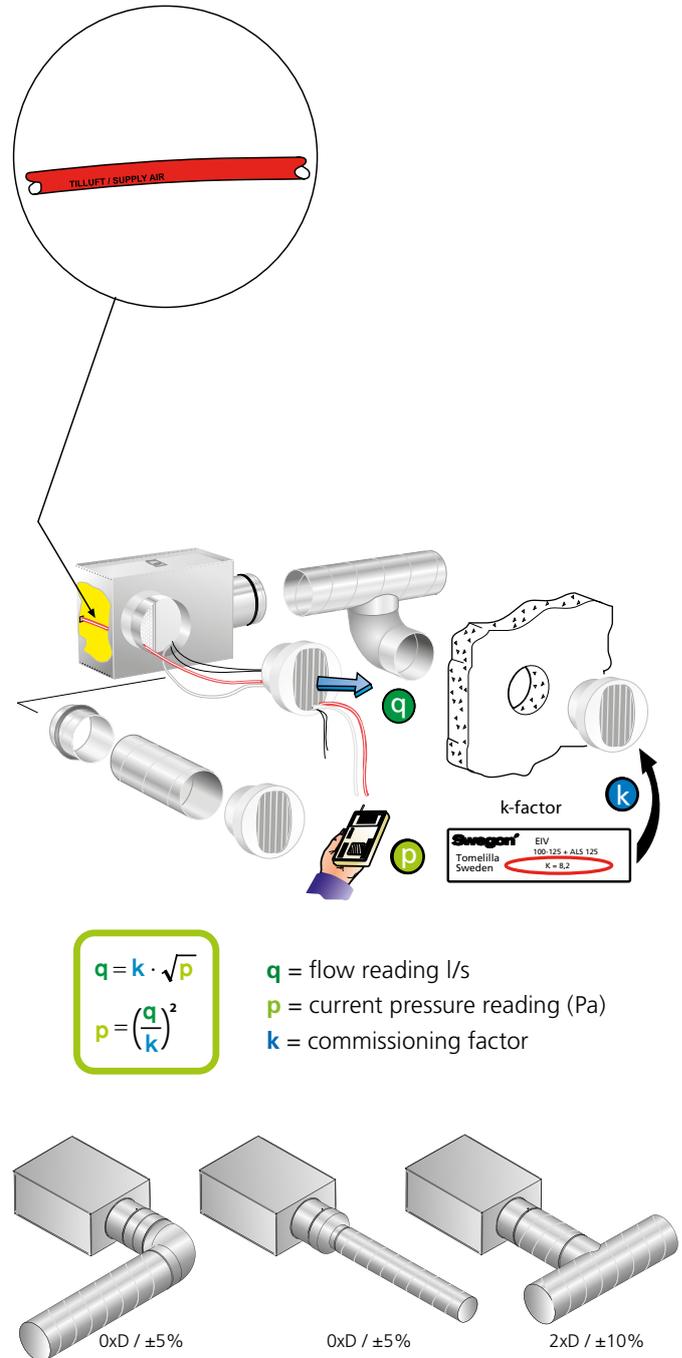


Figure 1. Installation. Commissioning.

Dimensions and weights

EIV

Size	ØD	Size of opening Ø mm
100	99	105
125	124	130
160	159	165

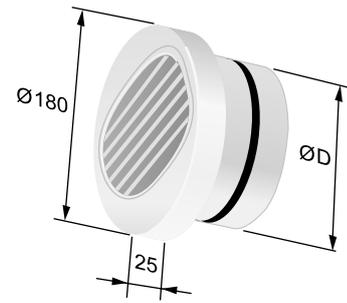
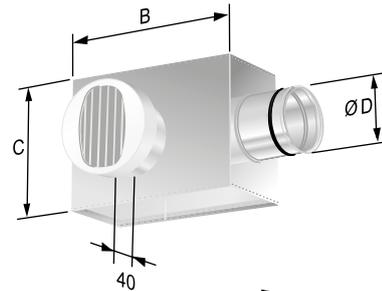


Figure 2. EIV.

EIV + ALS

Size	B	C	ØD	Ød	F
100	227	192	79	100	120
125	282	217	99	125	140
160	342	252	124	160	164

Size	G	H	K	Weight, kg
100	90	200	50	1.6
125	100	277	80	2.7
160	112	320	80	3.7



K-factor (COP)

ALSd Size	Size	EIVa Supply air	Tube colour
80-80	80	4.6	Red
80-100	100	5.9	Red
100-125	125	8.2	Red
125-160	160	10.3	Red

Number of measuring tubes: 1

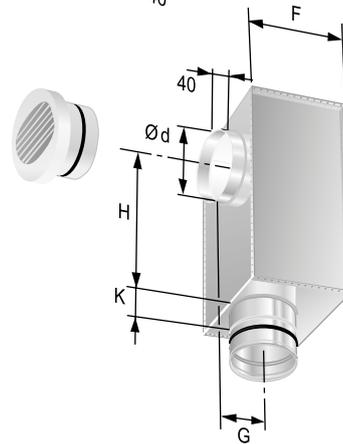


Figure 3. EIV + ALS.