

# CKD<sub>a</sub>

## Installation – Commissioning – Maintenance

20131122

### Accessories

#### Commissioning box:

ALS. Made of galvanised sheet steel; removable commissioning damper. Sound absorbing insulation with reinforced surface layer. Fire resistance rated to Bs-1, d0 in accordance with EN ISO 11925-2.

#### Distribution box:

CKDT 1. Distribution box without damper for 2 - 6 air diffusers.

#### Controller for resetting motor-actuated air diffusers:

VHC. The controller resets motor-actuated air diffusers intended for cooling and heating with supply air. The controlling parameter is the temperature difference between the supply air and the room air. See separate product datasheet for the VHC.

### Installation

Secure the inlet spigot to the connecting duct using blind rivets. If an ALS commissioning box is used, the sleeve coupling between the ALS and the CKD 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 should be carried out with the diffuser face mounted. Pull the measuring tubes and damper adjustment cords out of the air diffuser between the cones. Then connect the manometer to the correct measuring tube. The red tube in the ALS commissioning box is used for supply air. 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.

The K-factor is specified on the product's identification label and last in these instructions.

### Maintenance

The air diffuser can be cleaned, if necessary, using luke-warm water with dishwashing detergent added or by vacuum cleaning using a brush nozzle.

The duct system can be reached for cleaning by removing the through bolt on the outside of the outer clamp and withdrawing the cone package. 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.

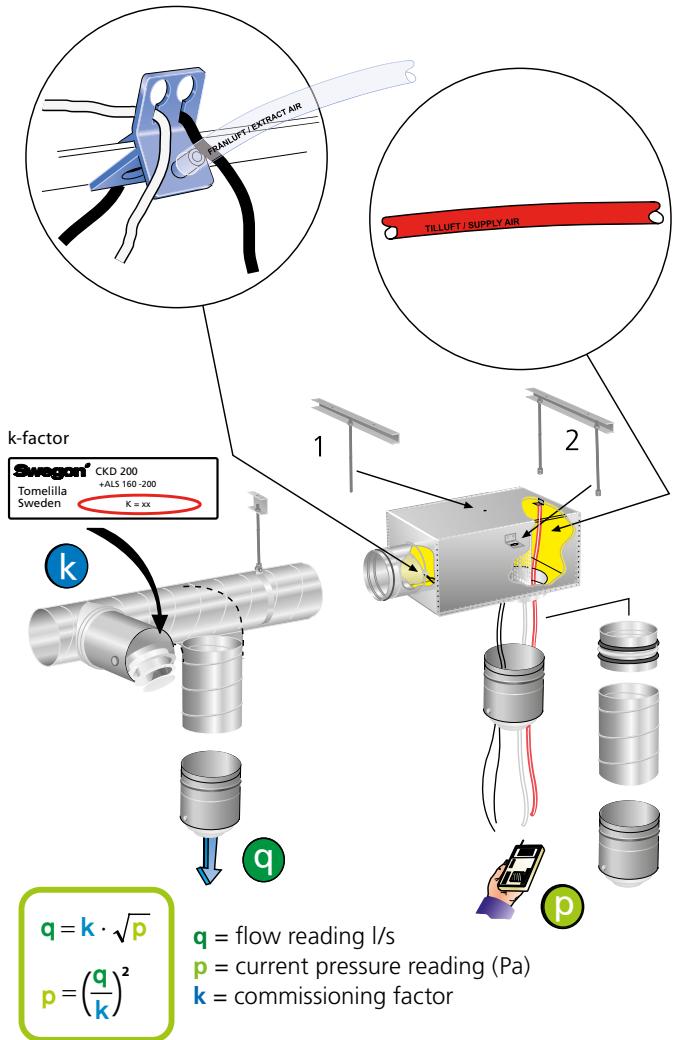
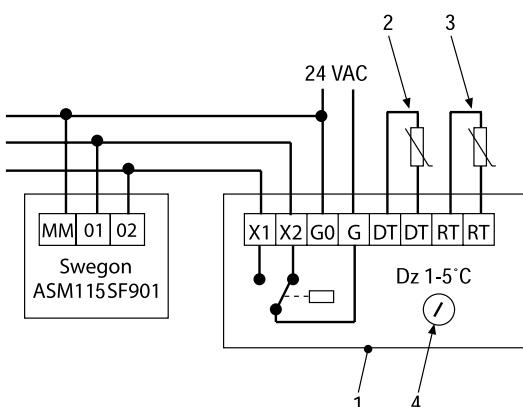
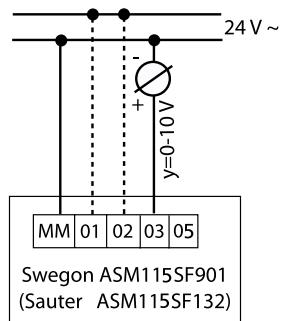
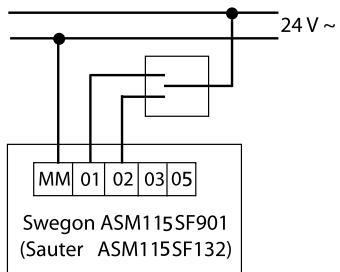
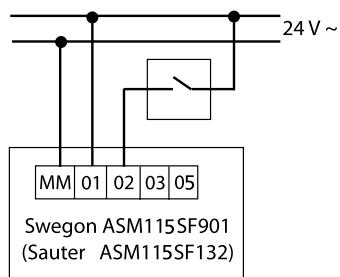


Figure 1. Installation Commissioning.

# Connections



Key to Figure 5.

- 1 = VHC controller
- 2 = Duct temperature sensor (DT)
- 3 = Room temperature sensor (RT)
- 4 = Setting the switch-over temperature

# Dimensions and Weights

## CKD 1 + ALS

Size	B	C	$\varnothing$ D	$\varnothing$ d	E	F
200	404	288	159	200	80	239
250	504	332	199	250	105	279
315	622	388	249	315	140	340
400	767	488	314	400	190	400

Size	G	H	K	Weight, kg
200	130	375	100	6.6
250	150	465	115	9.2
315	175	575	140	13.0
400	212	712	175	15.3

## CKD 1 + CKD 2

Size	I	J	$\varnothing$ d	Weight, kg
200	162	162	199	2.5
250	204	204	249	3.5
315	262	262	314	4.5
400	342	337	399	4.5
500	450	440	499	9,8

CL = Center line

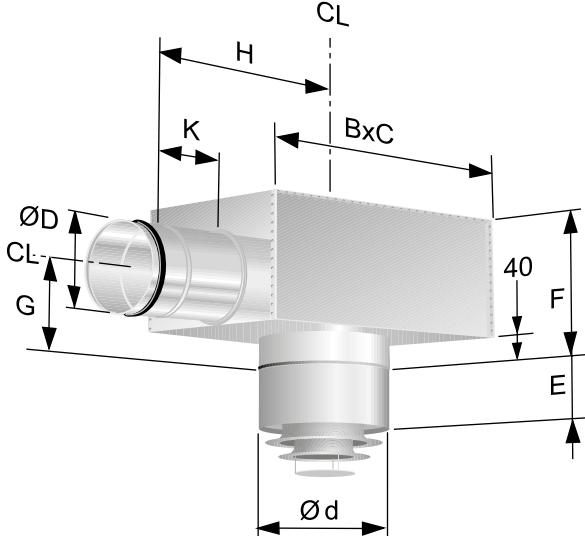


Figure 6. CKD 1 + ALS.

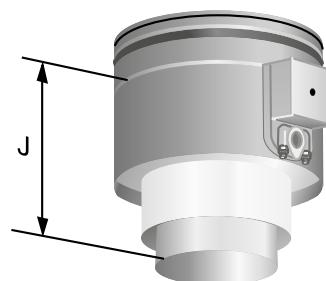
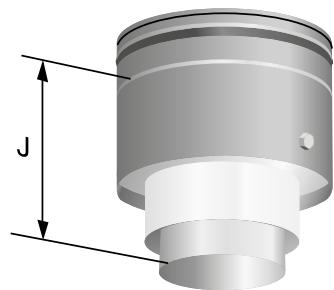
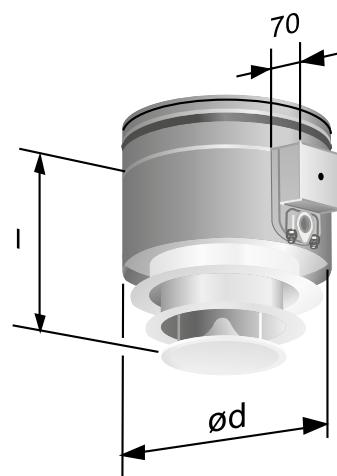
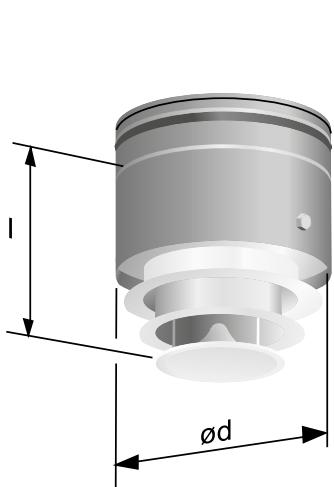


Figure 7. CKD 1.

Figure 8. CKD 2 with electric motor.

