

PARAGON Wall d

Installation – Commissioning – Maintenance

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Art. 942428074

Content

Application area.....	2
General.....	2
Contents.....	2
Protective equipment.....	2
Electrical safety.....	2
Handling.....	2
Installation.....	2
Disposal.....	2
Cleaning.....	2
Service/maintenance.....	2
Product warranty.....	2
Dimensions and weight.....	3
Installation	4
Cutout dimensions.....	4
Suspension	5
Water connection	7
Connecting water.....	7
Air connections.....	8
Connection dimension air	8
Supply and extract air	9
Supply air	9
Extract air /	9
Control equipment.....	10
Terminal block	10
LUNA.....	10
VAV regulator	11
Grille assembly.....	12
Commissioning.....	13
K-factor setting.....	13
Maintenance.....	14

Symbols

Warning/Caution!



Application area

The product is a comfort module designed for indoor climate. The product is used to ventilate, cool and heat the room.

The product may not be used for anything other than its intended use.



General

Read through the entire instructions for use before you install/use the product and save the instructions for future reference. It is not permissible to make changes or modify this product other than those specified in this document.

Contents

1 PARAGON Wall

1 Instructions for use



Protective equipment

Always use appropriate personal protective equipment for the work in question, in the form of gloves, respirators, protective glasses and helmets during handling, installation, cleaning and service/maintenance.



Electrical safety

Permitted voltage, see Electrical data.

It is not permissible to insert foreign objects into the product's contactor connections or ventilation openings; risk for short circuiting.

24 V isolation transformer to be connected should comply with the provisions of IEC 61558-1.

Cable sizing must be carried out for cabling between the product and the power supply source.

Disconnect the power supply when working on products that are not required to run.

Always follow the local/national rules for who shall be permitted to carry out this type of electrical installation.

Handling

Always use appropriate transport and lifting devices when the product is to be handled to reduce ergonomic loads.

The product must be handled with care.

Installation

- Moist, cold and aggressive environments must be avoided.
- Assemble the product according to this instruction and applicable industry regulations.
- Install the product for easy access during service/maintenance.
- Avoid installing the product near a heat source.
- Check to make sure that the product does not have any visible defects.
- Check that the product is properly secured after it has been installed.
- Secure cables with cable ties.
- Check that all cables are properly secured in place after installation.

Disposal

Waste must be handled according to local regulations.

Cleaning

Ideally the product should be cleaned twice a year by vacuuming the coil to remove loose dust. In fibre dense environments a more frequent interval is recommended.

A simple visual inspection of connections is recommended when cleaning.

Avoid aggressive cleaning agents which may harm painted surfaces. Normally a mild soap or alcohol solution is fully adequate for cleaning. See also the maintenance section in this instructions for use.

Service/maintenance

- In connection with a service, mandatory ventilation inspection or cleaning of the ventilation system, check that the general condition of the products looks ok. Pay particular attention to the suspension, cables and that they sit firmly in place.
- It is not permissible to open or repair electrical components.
- If you suspect that the product or a component is defective, please contact Swegon.
- A defective product or component must be replaced by an original spare part from Swegon.

Product warranty

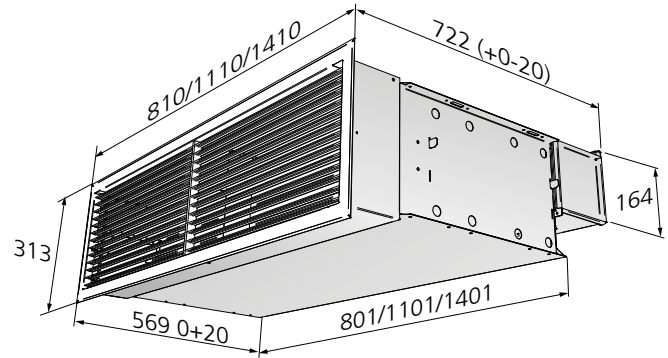
The product warranty or service agreement will not be in effect/will not be extended if: (1) The product is repaired, modified or changed, unless such repair, modification or change has been approved by Swegon AB; or (2) the serial number on the product has been made illegible or is missing.

Dimensions and weight

Weight

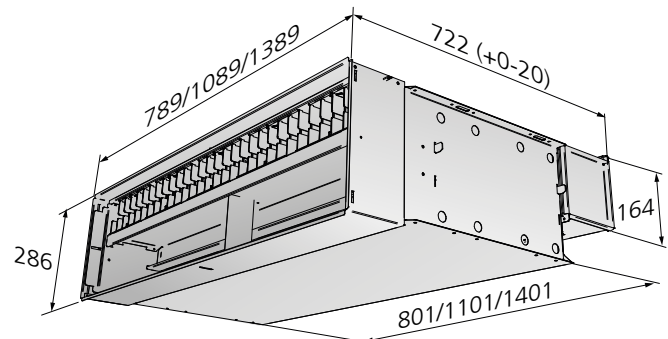
PARAGON Wall 800

Length	Type	Dim.	Dry weight* (kg)		Water volume (l)	
mm		Ø	without grill	incl. grill	cooling	heating
800 R	A	125	17.4	19.6	1.39	
800 L	A	125	17.4	19.6	1.38	
800 R	B	125	17.4	19.6	1.39	0.38
800 L	B	125	17.4	19.6	1.38	0.37
800 R	X	125	17.4	19.6	1.39	
800 L	X	125	17.4	19.6	1.38	



PARAGON Wall 1100

Length	Type	Dim.	Dry weight* (kg)		Water volume (l)	
mm		Ø	without grill	incl. grill	cooling	heating
1100 R	A	125	22.6	25.5	1.93	
1100 L	A	125	22.6	25.5	1.92	
1100 R	B	125	22.6	25.5	1.93	0.52
1100 L	B	125	22.6	25.5	1.92	0.51
1100 R	X	125	22.6	25.5	1.93	
1100 L	X	125	22.6	25.5	1.92	



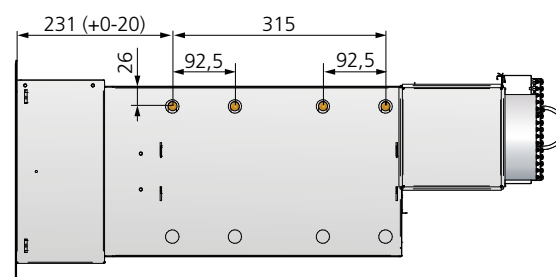
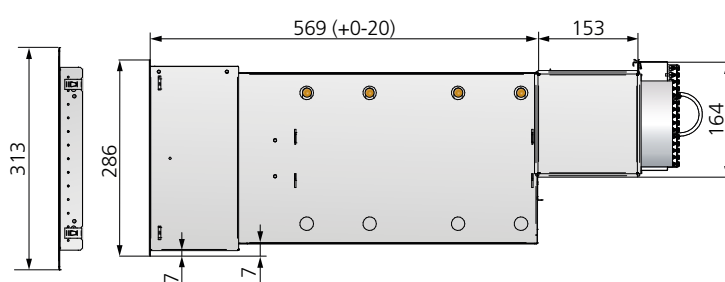
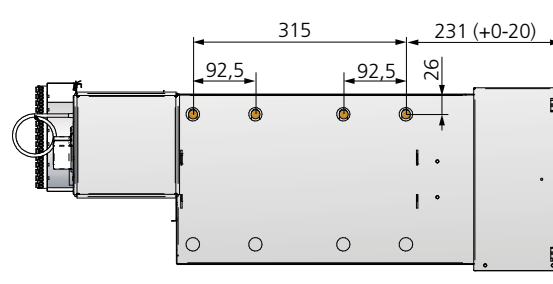
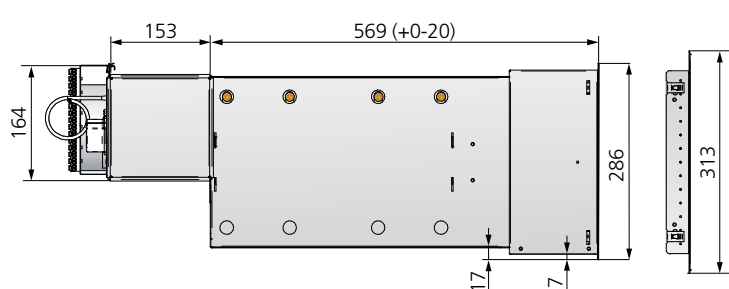
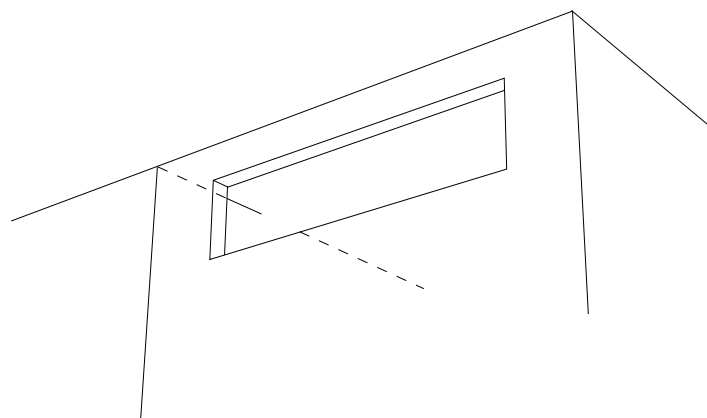
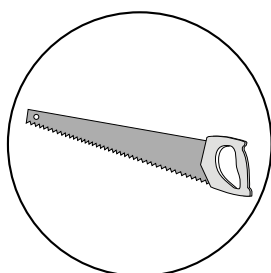
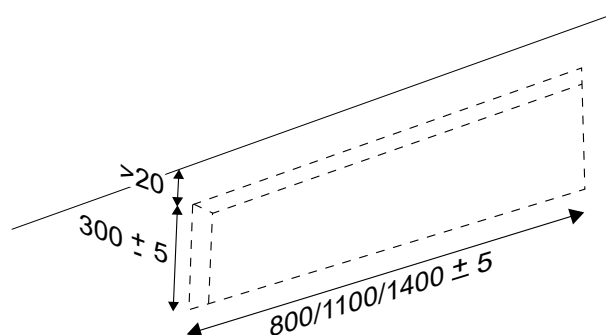
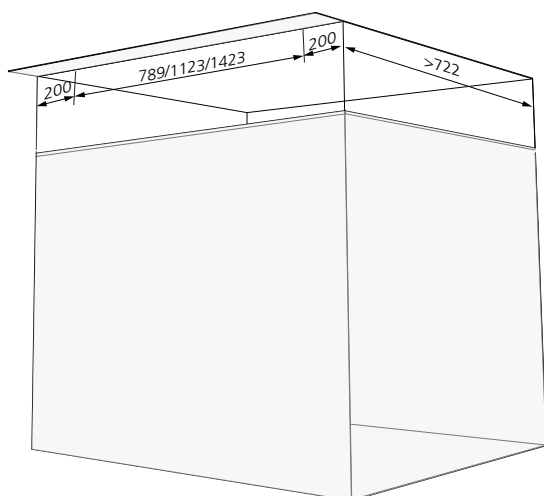
PARAGON Wall 1400

Length	Type	Dim.	Dry weight* (kg)		Water volume (l)	
mm		Ø	without grill	incl. grill	cooling	heating
1400 R	A	125	27.6	31.2	2.47	
1400 L	A	125	27.6	31.2	2.46	
1400 R	B	125	27.6	31.2	2.47	0.65
1400 L	B	125	27.6	31.2	2.46	0.64
1400 R	X	125	27.6	31.2	2.47	
1400 L	X	125	27.6	31.2	2.46	

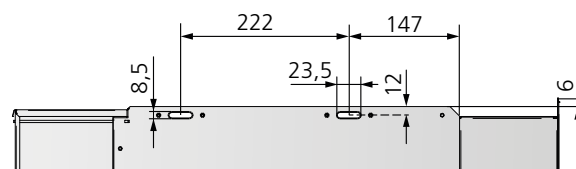
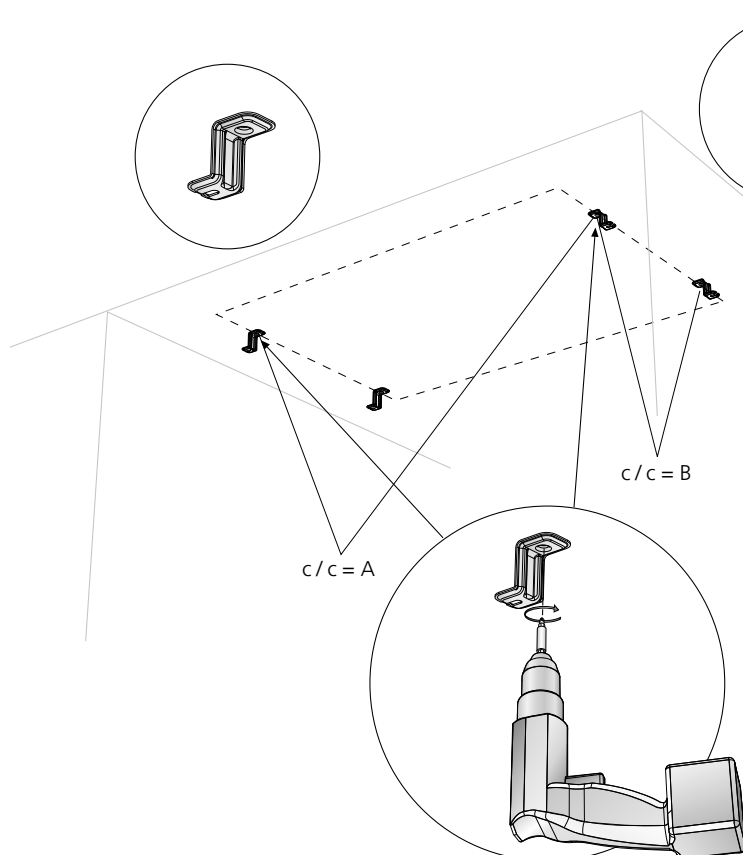
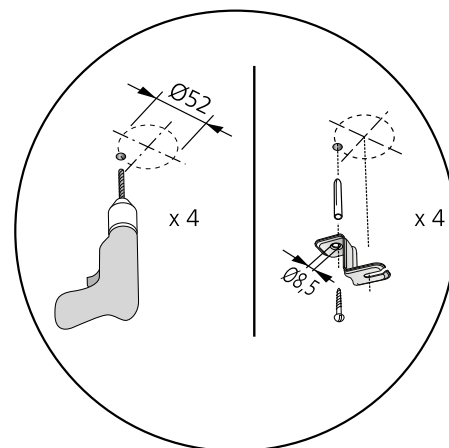
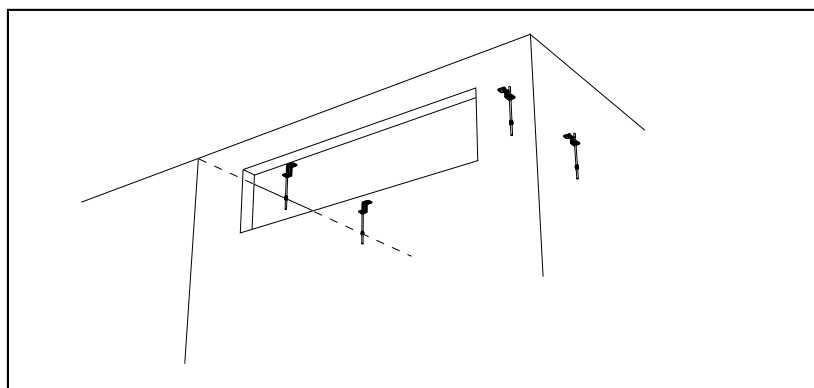
* excl. terminal block: 0,26 kg

Installation

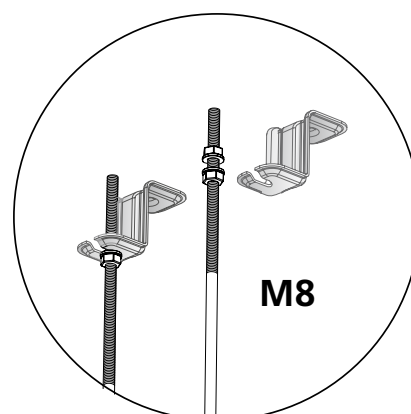
Cutout dimensions

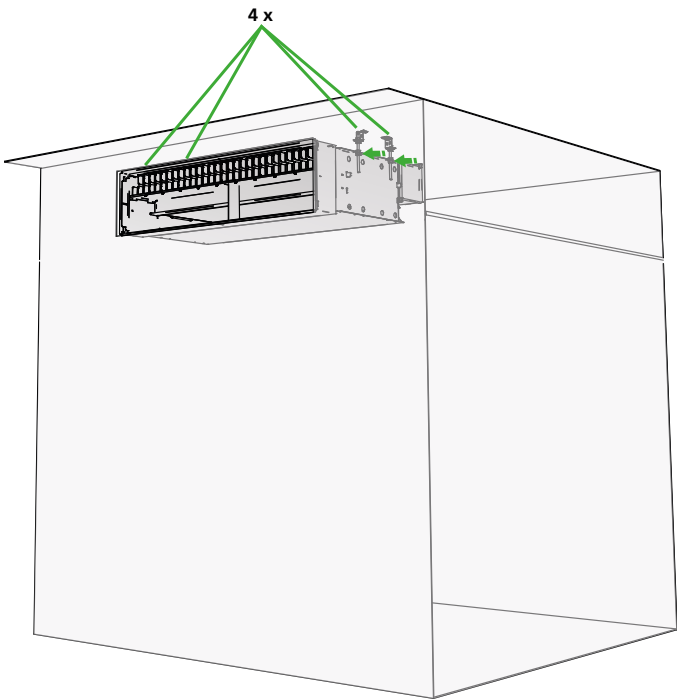
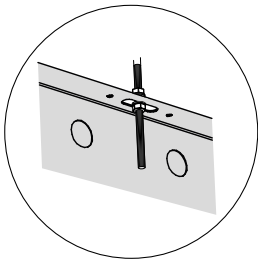
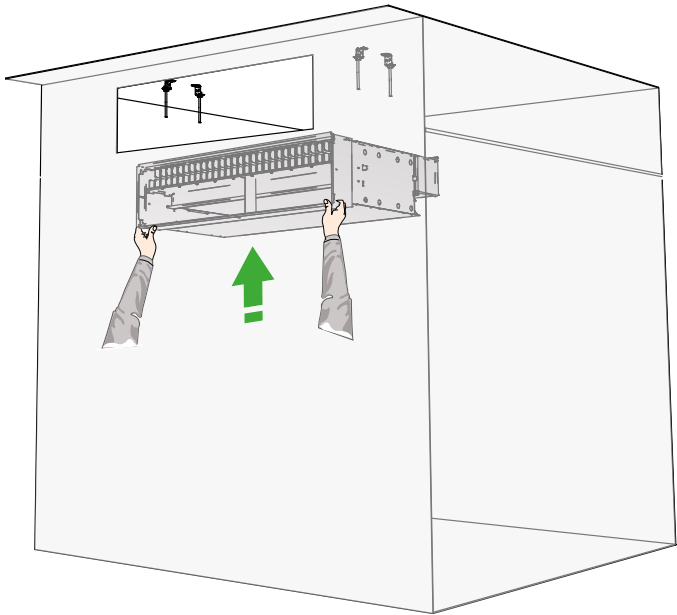


Suspension



Length (mm)	A (mm)	B (mm)
800	778	222
1100	1078	222
1400	1378	222





Water connection

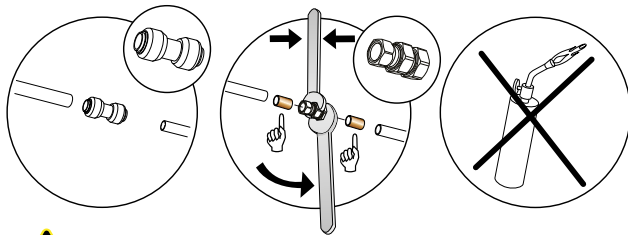
Water dimensions

Standard variant with factory fitted valves:

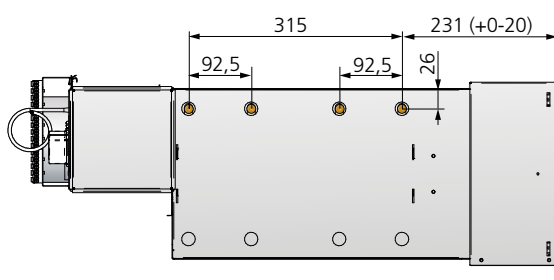
Length	Cooling	Heating
(mm)	Return	Return
800, 1100, 1400	DN15 external thread	DN15 external thread

Standard variant without factory fitted valves:

Length	Cooling	Heating
(mm)	Supply and return	Supply and return
800, 1100, 1400	Plain pipe	Plain pipe
	(Cu) Ø 12 x 1,0 mm	(Cu) Ø 12 x 1,0 mm

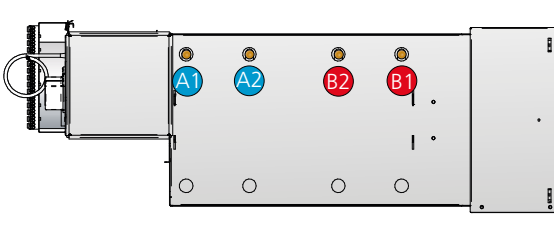


Note that compression ring couplings require support sleeves inside the pipes.

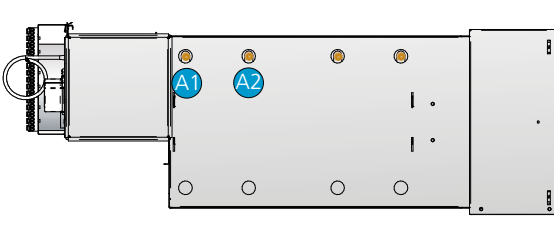


Water connection on right side "R"

Cooling and heating on right side "R", all sizes



Cooling on right side "R", all sizes



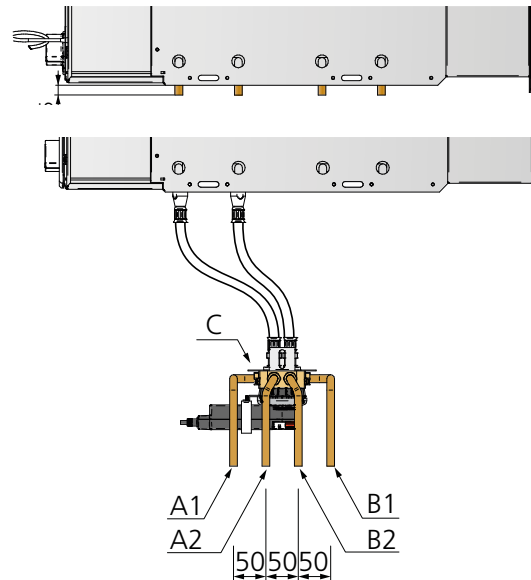
Water connection on right side (R).

A1 = Cooling water, supply
A2 = Cooling water, return
B1 = Heating water, supply
B2 = Heating water, return

Connecting water

Connect the water pipes using push-on couplings or compression ring couplings when the product is ordered without valves. Note that compression ring couplings require support sleeves inside the pipes.

Do not use solder couplings to connect the water pipes. High temperatures can damage the unit's existing soldered joints. Flexible connecting hoses for water are available for flat-end pipes and valves, and can be ordered separately.

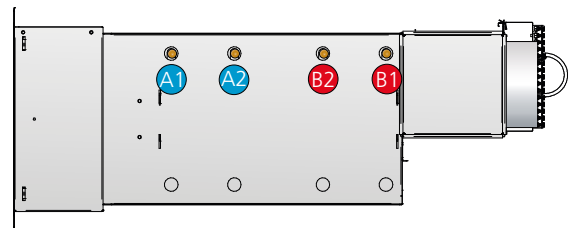


Water connection - CCO-valve.

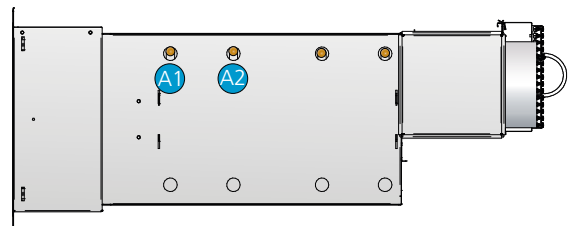
A1 = Cooling water, supply
A2 = Cooling water, return
B1 = Heating water, supply
B2 = Heating water, return
C = CCO valve
D = Flexible hose

Water connection on left side "L"

Cooling and heating on left side "L", all sizes



Cooling on left side "L", all sizes



Water connection on left side (L).

A1 = Cooling water, supply
A2 = Cooling water, return
B1 = Heating water, supply
B2 = Heating water, return

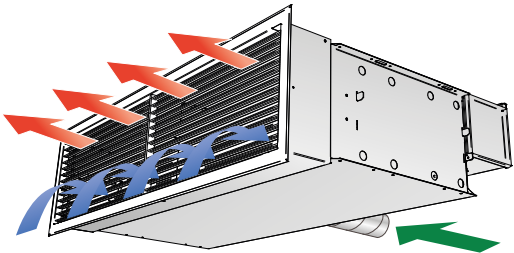
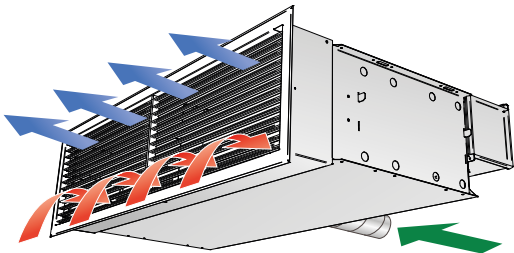
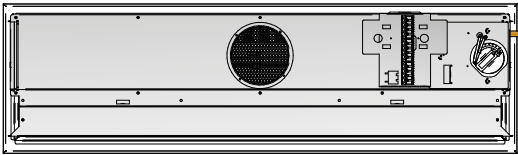
Air connections

All variants have an air connection Ø125.
The produkt has the air connection centered on the back of the product for easy access from both ends and back.

Connection dimension air

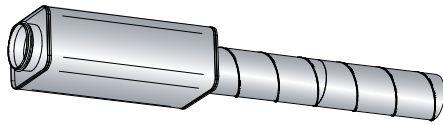
Length (mm)	Air connetion (mm)
800, 1100, 1400	Ø 125

View from the back

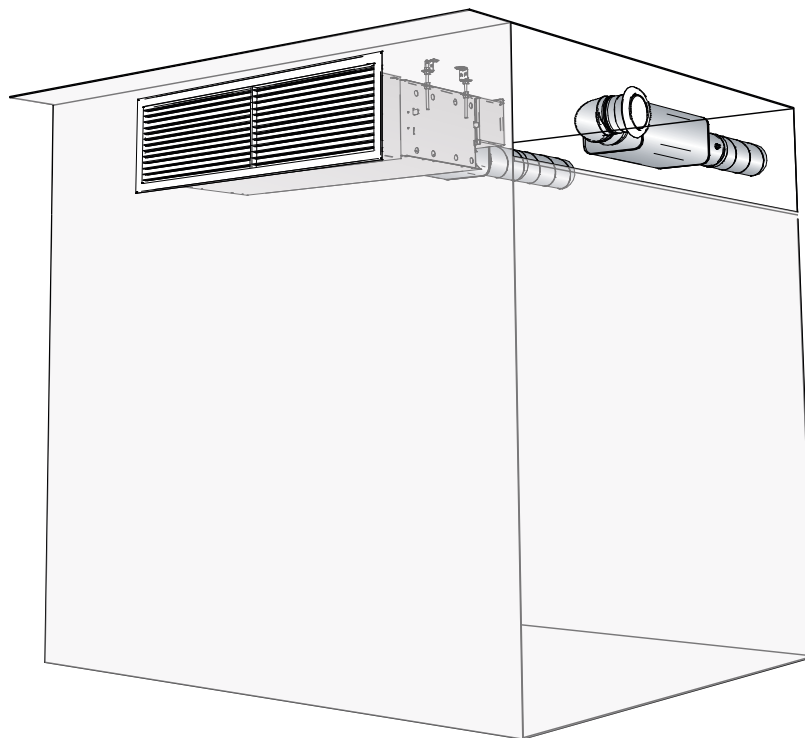
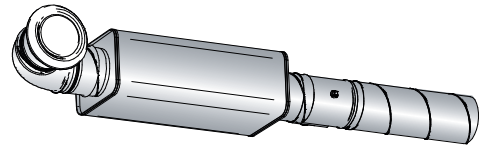


Supply and extract air kit

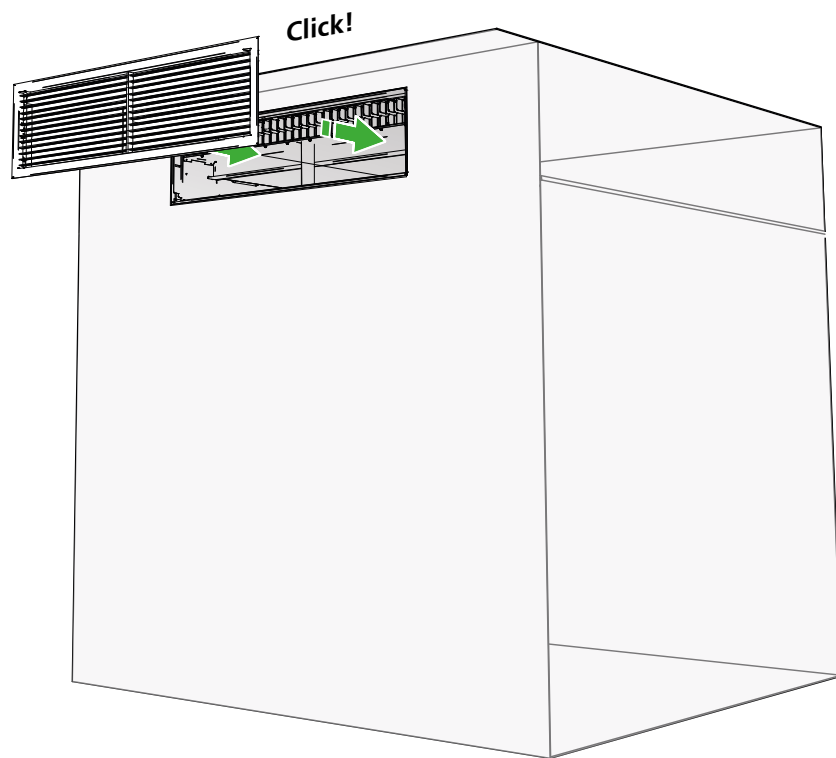
Supply air



Extract air



Grille assembly



Commissioning

K-factor setting

K-factor settings for product ordered without motor

$$p_i = \left(\frac{q}{k} \right)^2 [\text{Pa}]$$

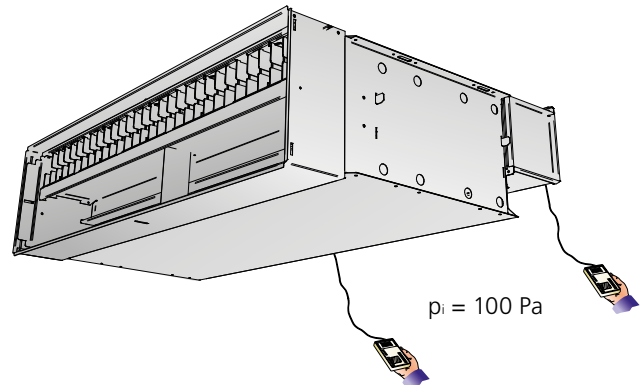
$$q = k \cdot \sqrt{p_i} [\text{l/s}]$$

$$\frac{q}{\sqrt{p_i}} = k$$

$$p_i [\text{Pa}]$$

$$q [\text{l/s}]$$

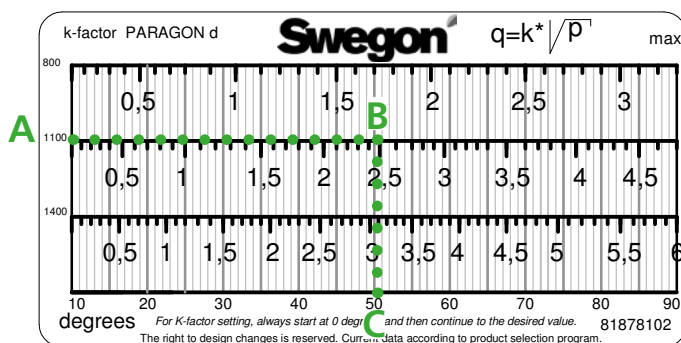
$$k = k\text{-factor}$$



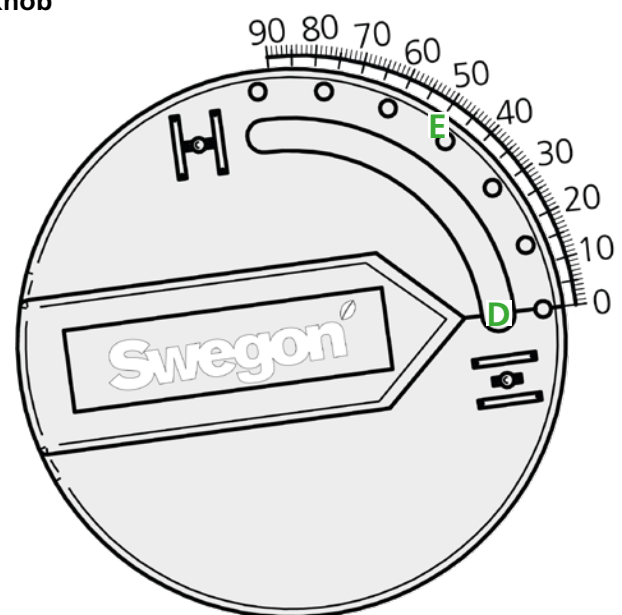
Example: To achieve the required flow of 25 l/s at 100 Pa, requires k-factor 2.5

- A** Find the product's length from left-hand side of the k-factor table.
- B** Read the required k-factor on the row in question.
- C** Follow the vertical row and read the number of degrees at the bottom.
- D** Loosen the screw located in the knob's groove (the knob then moves to the fully open position, 90°)
- E** Turn the knob until the marking "D" reaches the required number of degrees.
In the example from the table for a PARAGON Wall d, length 1100, ø125, k-factor 2,5, turn the knob to 50°.
- F** Tighten the screw again when the marking is set on the required number of degrees

K-factor table



Knob



Maintenance

