PARAGON Wall d

Installation – Commissioning – Maintenance

03/07/2025 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
nstallation	4
Cutout dimensions	4
Suspension	5
Water connection	7
Connecting water	7
Water quality	8
Air connections	8
Connection dimension air	8
Supply and extract air kit	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, clea-

ning 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.

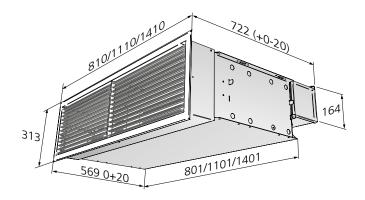


Dimensions and weight

Weight

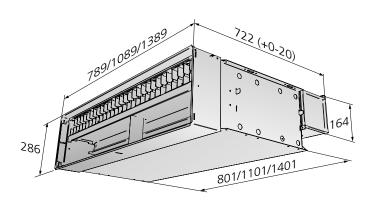
PARAGON Wall 800

Length	Туре	Dim.	Dry weig	ght* (kg)	Water vo	olume (I)
mm		Ø	without grill	incl. grill	cooling	heating
800 R	А	125	17.4	19,6	1.39	
800 L	А	125	17.4	19.6	1.38	
800 R	В	125	17.4	19.6	1.39	0.38
800 L	В	125	17.4	19.6	1.38	0.37
800 R	X	125	17.4	19.6	1.39	
800 L	Х	125	17.4	19.6	1.38	



PARAGON Wall 1100

Length	Type	Dim.	Dry weig	ght* (kg)	Water vo	olume (I)
mm		Ø	without grill	incl. grill	cooling	heating
1100 R	А	125	22.6	25.5	1.93	
1100 L	А	125	22.6	25.5	1.92	
1100 R	В	125	22.6	25.5	1.93	0.52
1100 L	В	125	22.6	25.5	1.92	0.51
1100 R	×	125	22.6	25.5	1.93	
1100 L	×	125	22.6	25.5	1.92	



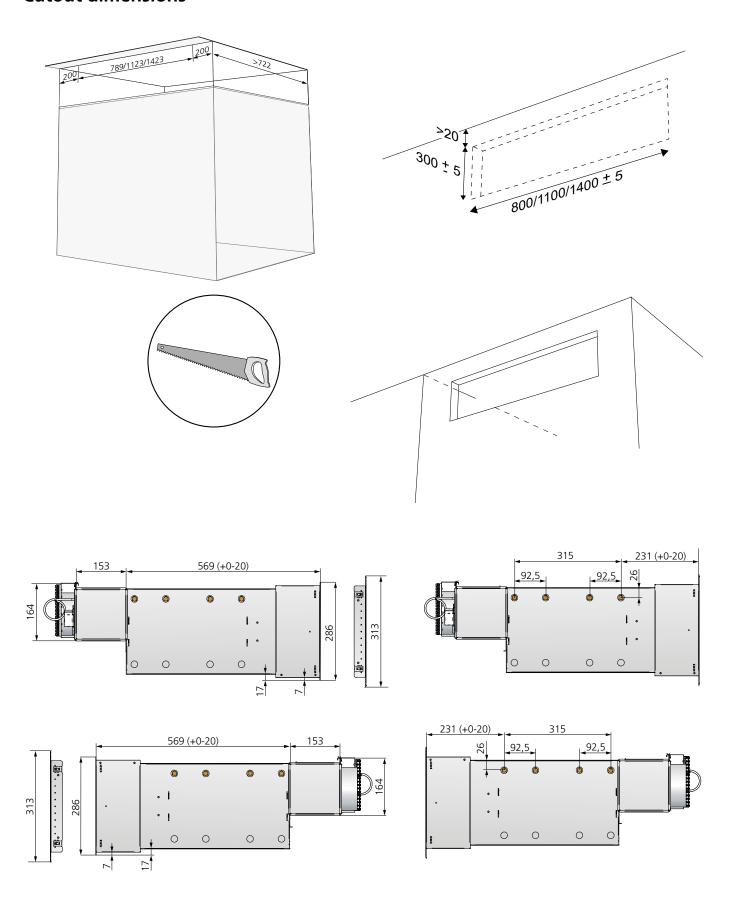
PARAGON Wall 1400

Length	Type	Dim.	Dry weig	ght* (kg)	Water vo	olume (I)
mm		Ø	without grill	incl. grill	cooling	heating
1400 R	А	125	27.6	31.2	2.47	
1400 L	А	125	27.6	31,2	2.46	
1400 R	В	125	27.6	31.2	2.47	0.65
1400 L	В	125	27.6	31.2	2.46	0.64
1400 R	×	125	27.6	31.2	2.47	
1400 L	X	125	27.6	31.2	2.46	

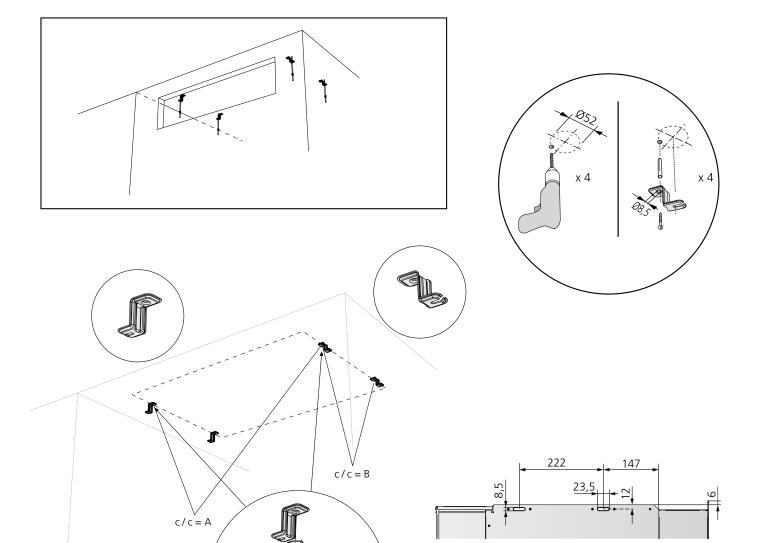
^{*} excl. terminal block: 0,26 kg

Installation

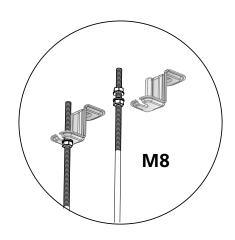
Cutout dimensions



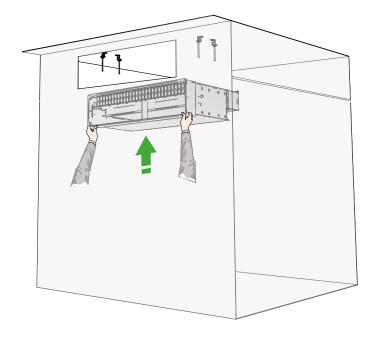
Suspension

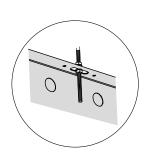


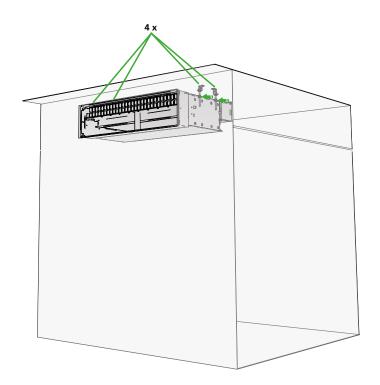
Length (mm)	A (mm)	B (mm)
800	778	222
1100	1078	222
1400	1378	222











Water connection

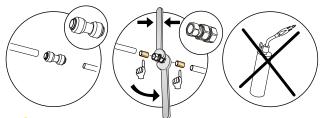
Water dimensions

Standard variant with factory fitted valves:

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

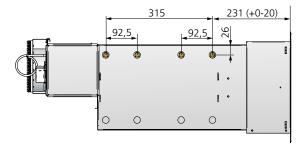
Standard variant without factory fitted valves:

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

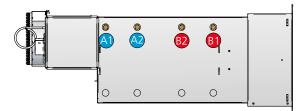




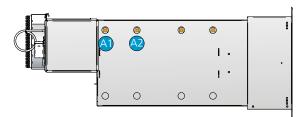
Note that compression ring couplings require support sleeves inside the pipes.



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

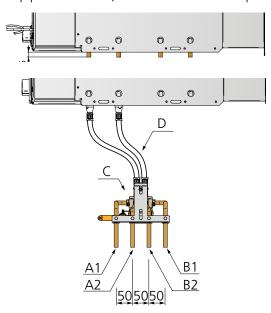
B1 = Heating water, supply

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

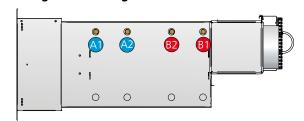
B1 = Heating water, supply

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



Water quality

Swegon recommends water quality according to VDI 2035-2 for both the heating and cooling systems. In order to maintain the oxygen content in the water below the levels (<0.1 mg/l) prescribed in VDI 2035-2, it is recommended to install a vacuum degasser, particularly in the cooling system where it's more challenging to dissolved gas. It is also important that the prepressure in the expansion vessel is dimensioned according to EN-12828 for both the heating and cooling systems and that regular checks are made of the pre-pressure. The cooling and heating systems must be designed to prevent oxygen from entering the system, this is particularly important to consider when selecting flex hose, pipes and expansion vessels. When the system is filled with fresh water, it has an oxygen content of approximately 8 mg/l, however, this oxygen is consumed quickly through corrosion processes and within a few days the oxygen in the water should be consumed. Nevertheless, it is important to avoid filling the system with fresh water unnecessarily.

Automatic deaerators are often installed to facilitate filling of the system. It is recommended that the automatic deaerators are turned off once the system has been fully vented to avoid these drawing in air in the system if the pre-pressure in the expansion vessel should drop.

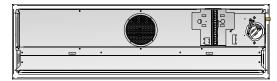
Air connections

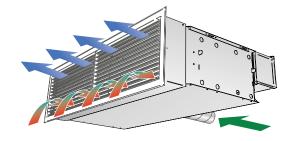
All variants have an air connection \emptyset 125. The produkt has the air connection centered on the back of the product for easy access from both ends and back.

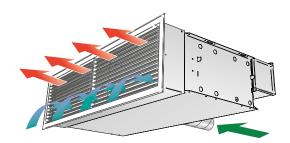
Connection dimension air

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

View from the back









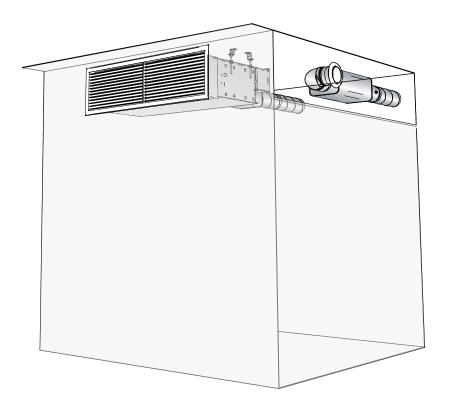
Supply and extract air kit

Supply air



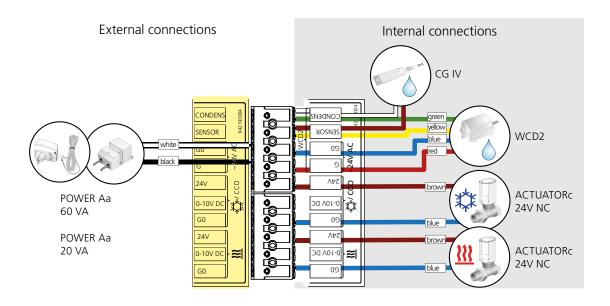
Extract air



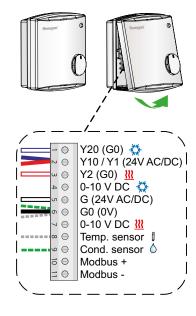


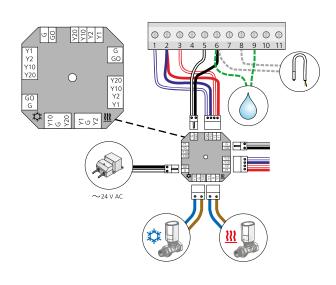
Control equipment

Terminal block



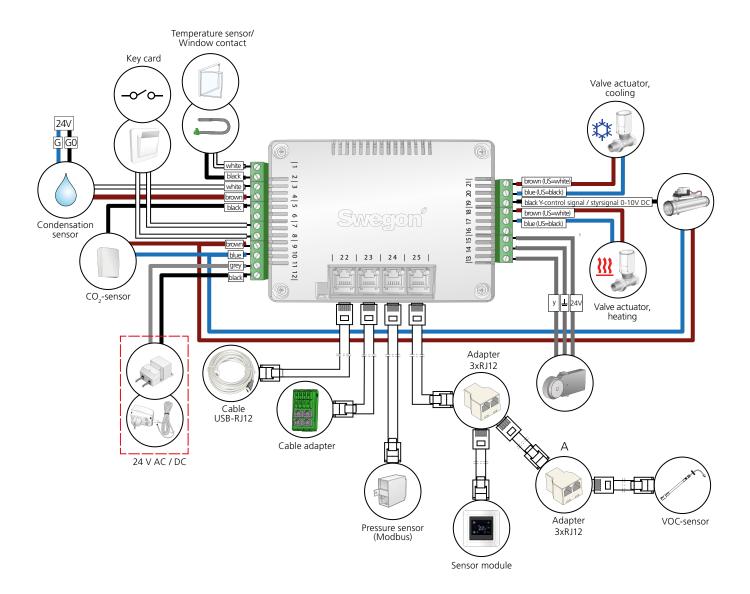
LUNA



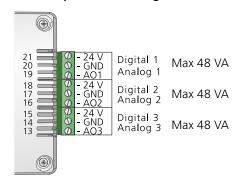




VAV regulator

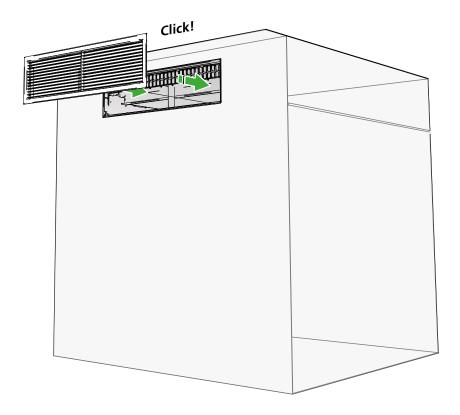


The outputs on the regulator





Grille assembly





Commissioning

K-factor setting

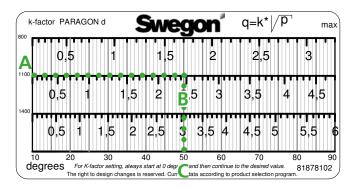
You can easily set the required k-factor with the help of the knob located on the back.

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

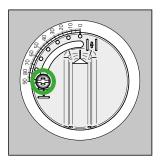
- A: Find the product's length from the left-hand side of the k-factor table.
- **B**: Read the required k-factor on the row in question.
- C: Follow the vertical row and read the number of degrees at the bottom.

Product, dimensioned via Room Unit Design, comes with a default setting for the desired airflow. Swegon recommends fine-tuning during commissioning.

K-factor table

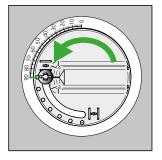


To enter settings for k-factor



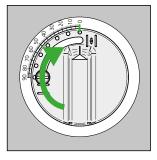
1

Loosen the screw located in the knob's groove.



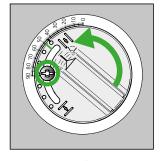
2.

The knob then moves automatically to the fully open position, 90°.



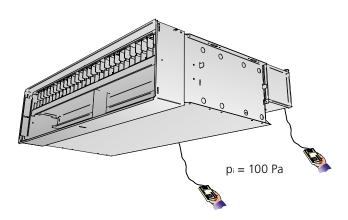
3.

Then turn the knob to the fully closed position, 0°.

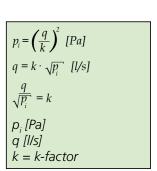


4.

Then turn the knob back to the angle for the desired k-factor (50° in our example) and tighten the screw.



Location of measuring hoses



Maintenance

