PARASOL Zenith

Installation - Commissioning - Maintenance

03/07/2025 Art. 942428089

Content

Dimensions and weights	2
Installation	3
Suspension bracket	3
Accessory - Quick bracket	4
Accessory - Mounting in concealed T-bars	5
Accessory - Fold-out coil	6
Water connection	7
Wiring diagram for accessories	8
Upgrade kits	8
Air connection	9
Commissioning	10
K-factor setting	
ADC	11
Maintenance	12

The document refers to version "e"

Symbol key

Symbols on the machine

This product complies with applicable EU directives



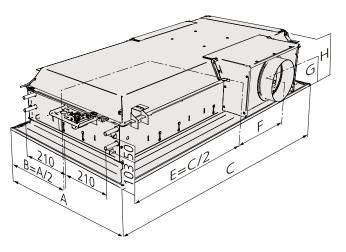
Symbols in this Instructions for Use

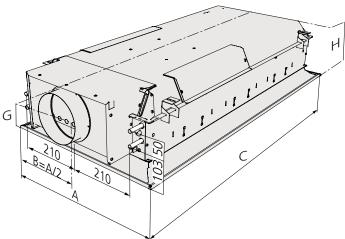
Warning/Caution!





Dimensions and weights





Dimensions

Parasol Zenith 600

	Dimensions (mm)							
А	В	С	ØD*	Е	F	G*	H*	
584	292	584	125/160	292	178	137/153	220/250	
592	296	592	125/160	296	178	137/153	220/250	
598	299	598	125/160	299	178	137/153	220/250	
617	308.5	617	125/160	308.5	178	137/153	220/250	
623	311.5	623	125/160	311.5	178	137/153	220/250	
642	321	642	125/160	321	178	137/153	220/250	
667	333.5	667	125/160	333.5	178	137/153	220/250	

Parasol Zenith 1200

	Dimensions (mm)							
А	В	С	ØD*	Е	F	G*	H*	
584	292	1184	125/160	592	178	137/153	220/250	
592	296	1192	125/160	596	178	137/153	220/250	
598	299	1198	125/160	599	178	137/153	220/250	
617	308.5	1242	125/160	621	178	137/153	220/250	
623	311.5	1248	125/160	624	178	137/153	220/250	
642	321	1292	125/160	646	178	137/153	220/250	
667	333.5	1342	125/160	671	178	137/153	220/250	

Parasol Zenith 1800

	Dimensions (mm)							
А	В	С	ØD	Е	F	G	Н	
584	292	1784	200	892	478	173	290	
592	296	1792	200	896	478	173	290	
598	299	1798	200	899	478	173	290	
617	308.5	1823	200	911,5	478	173	290	
623	311.5	1867	200	933.5	478	173	290	
642	321	1873	200	936.5	478	173	290	
667	333.5	1942	200	971	478	173	290	

^{*} Dimensions refer to products with air connection ø125/ø160.

Weight

Parasol Zenith 600

Length	Туре	Dim.	Dry weight	Water v	olume (I)
mm		Ø	(kg)	cooling	heating
600	А	125	12.9	1.08	-
600	В	125	13.0	0.84	0.34
600	А	160	13.5	1.08	-
600	В	160	13.6	0.84	0.34

Parasol Zenith 1200

Length	Type	Dim.	Dry weight	Water v	olume (I)
mm		Ø	(kg)	cooling	heating
1200	А	125	23.6	2.4	-
1200	В	125	23.6	1.8	0.7
1200	А	160	24.4	2.4	-
1200	В	160	24.4	1.8	0.7

Parasol Zenith 1800

Length	Type	Dim.	Dry weight	Water v	olume (I)
mm		Ø	(kg)	cooling	heating
1800	А	200	35.7	3.8	-
1800	В	200	35.7	2.7	1.1

Weights above are excl. control plate (0.12 kg).

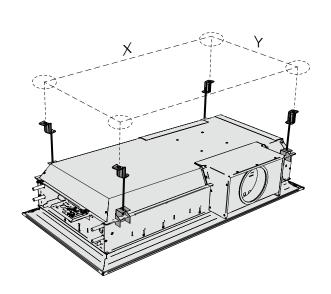
These are examples of the most common sizes of WISE Parasol. For the other variants, refer to ProSelect or IC Design at www.swegon.com.

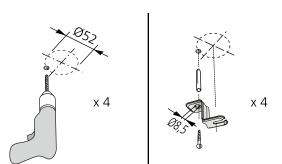


Installation

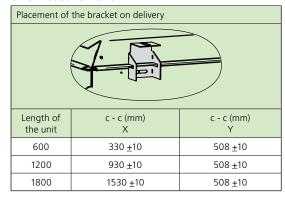
Suspension bracket

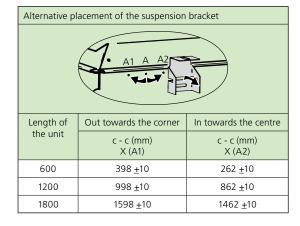
To mount the product on the ceiling using standard suspension bracket SYST MS

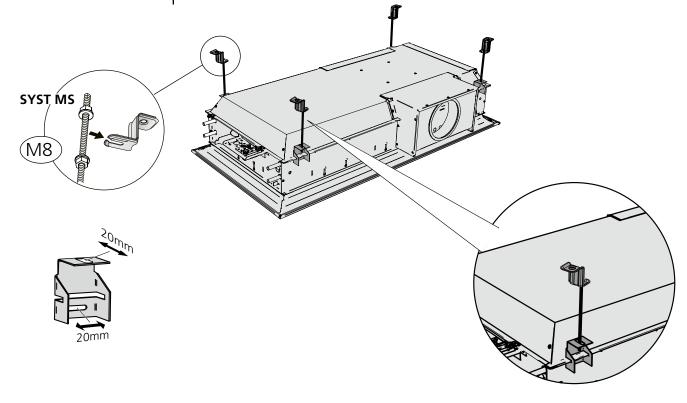




c - c measurement





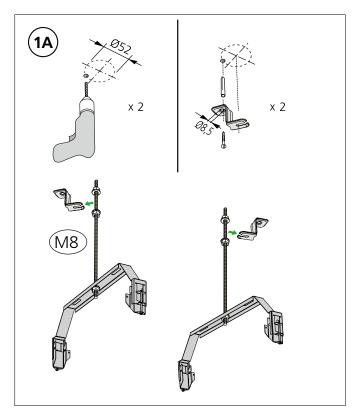


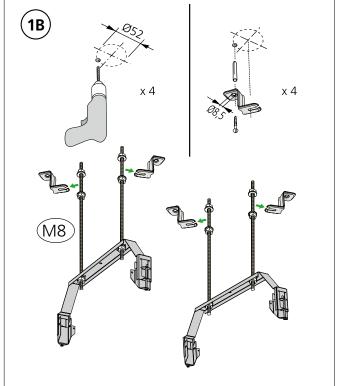
Accessory - Quick bracket

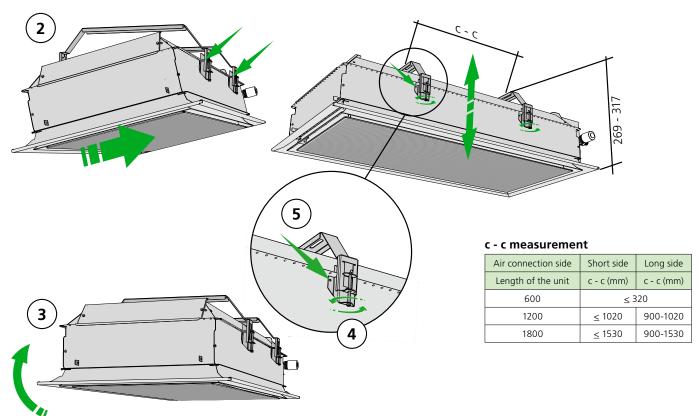
To mount the product on the ceiling using accessor, quick bracket

1A: Installation with one centred threaded rod per quick bracket.

1B: Installation with two threaded rods per quick bracket

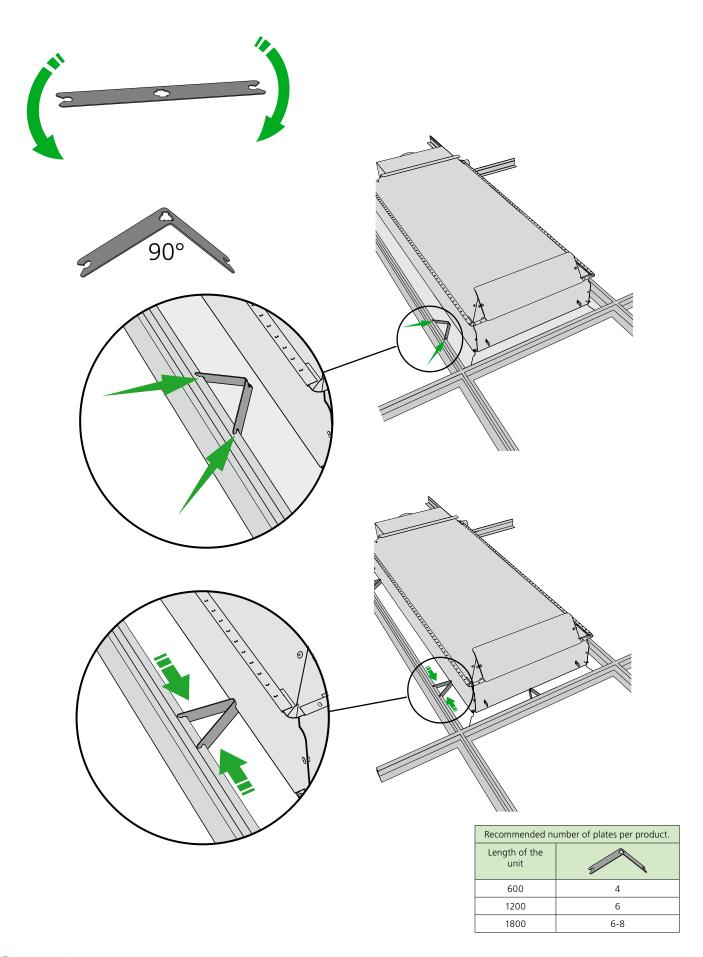






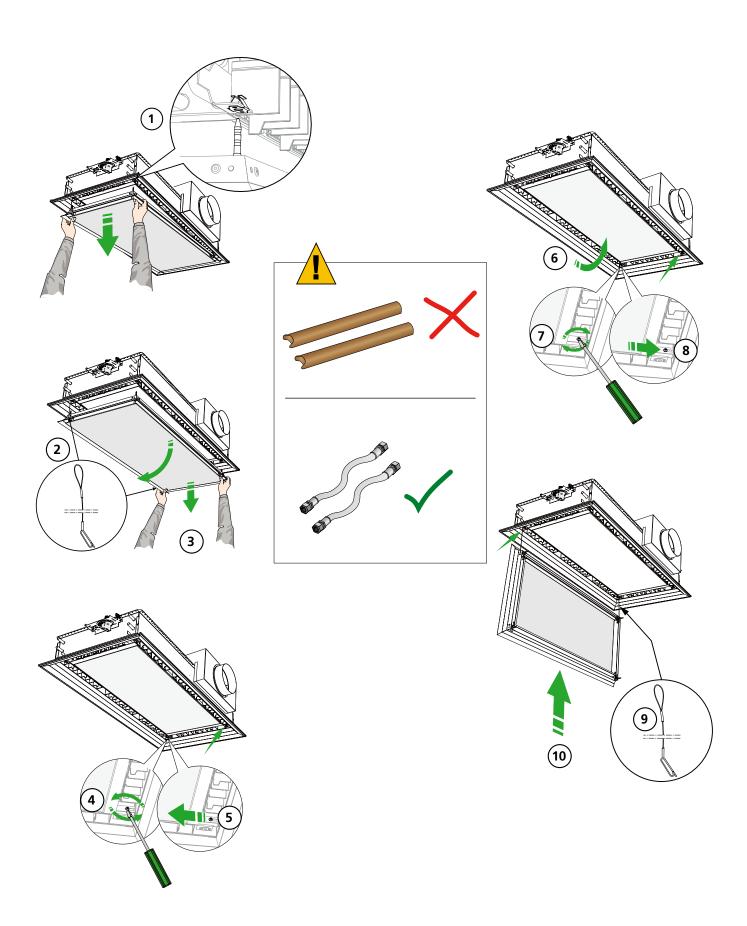
Accessory - Mounting in concealed T-bars

To centre the product when mounting in concealed T-bars.



Accessory - Fold-out coil

PARASOL Zenith with fold-out coil (accessory) for easy access and cleaning when stringent demands are made on hygiene. The accessory, fold-out coil, requires flexible connecting hoses on the water side.



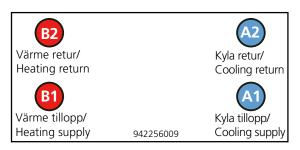


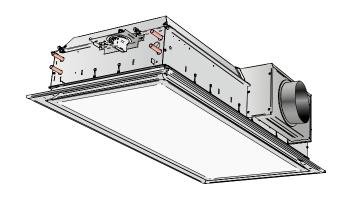
Water connection

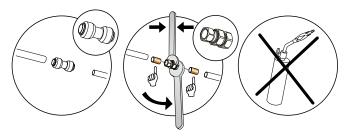
Parasol Zenith 600/1200/1800



Important!

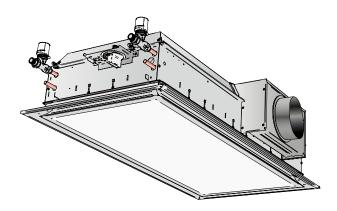








N.B!Use support sleeves inside the pipes together with compression ring couplings.



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.

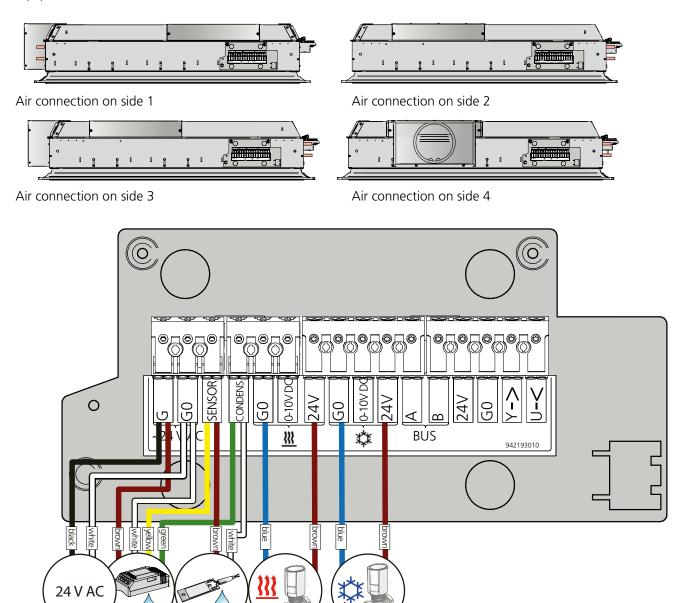
Automatic deaerators are often installed to facilitate filling of the system. It is recommended that the automatic deaerators are turned off once the system has been fully vented to avoid these drawing in air in the system if the pre-pressure in the expansion vessel should drop.

Connection sizes

Model	Length	Factory-fitted	Connection	Coupling type	Connection	Coupling type
A cooling only	600, 1200	Actuator and valve	Return	DN15, male thread	Supply pipe	Plain pipe 12 x 1.0 mm
B Cooling/heating	600, 1200	Actuator and valve	Return	DN15, male thread	Supply pipe	Plain pipe 12 x 1.0 mm
A cooling only	1800	Actuator and valve	Return	DN20 external threads	Supply pipe	Plain pipe 15 x 1.0 mm
B Cooling/heating	1800	Actuator and valve	Return	DN20 external threads DN15 external threads	Supply pipe	Plain pipe 15 x 1.0 mm Plain pipe 12 x 1.0 mm
A cooling only	600, 1200	-	Return	Plain pipe 12 x 1.0 mm	Supply pipe	Plain pipe 12 x 1.0 mm
B Cooling/heating	600, 1200	-	Return	Plain pipe 12 x 1.0 mm	Supply pipe	Plain pipe 12 x 1.0 mm
A cooling only	1800	-	Return	Plain pipe 15 x 1.0 mm	Supply pipe	Plain pipe 15 x 1.0 mm
B Cooling/heating	1800	-	Return	Plain pipe 15 x 1.0 mm Plain pipe 12 x 1.0 mm	Supply pipe	Plain pipe 15 x 1.0 mm Plain pipe 12 x 1.0 mm

Wiring diagram for accessories

Placement of the control plate for connection of the control equipment (In cases the product is ordered with control equipment)



Upgrade kits

PARASOL Zenith can also be upgraded with the help of the upgrade kit for integration in the WISE system.

ACTUATORC

24 V NC

ACTUATORC

24 V NC





CGIV

Air connection

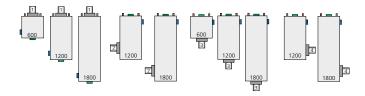
Connection sizes

Length of the unit	I	Dim. Ø	
	125	160	200
600, 1200	Yes	Yes	No
1800	No	No	Yes

Selectable air connection sides.

When ordering, depending on the length, it is possible to choose connection side 1 2, 3 or 4, see the table and figure below (view from above).

Length of the unit		Sic	le	
	1*	2	3	4
600	Yes	No	Yes	No
1200	Yes	Yes	Yes	Yes
1800	Yes	Yes	Yes	Yes

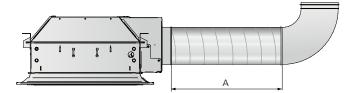


PARASOL Zenith with bend

PARASOL Zenith can be upgraded with VAV or DCV functionality, for these functions we recommend 3xØ straight connection before the product to maintain a very high airflow accuracy.

Incorporating this requirement into your project planning not only guarantees optimal performance but also simplifies installation and future system upgrades.

PARASOL Zenith has the option to place the air spigot connection on all four sides, to simplify installation and reduce installation costs.



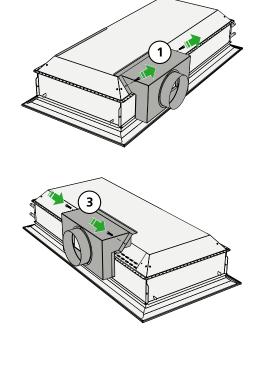
Dimensional drawing, long side connection with bend

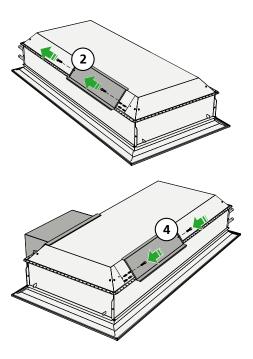
Recommendation for accurate flow measurment

Air connection size	А
(mm)	(mm)
125	375
160	480
200	600

Alternative air connection side

- 1. Unscrew two screws each from the sleeve and cover
- 2. Change the location of the spigot and cover
- 3 4. Screw the sleeve and cover in position each with two screws on the new side.





Commissioning

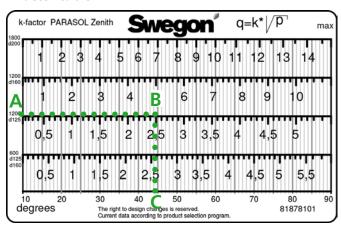
K-factor setting

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

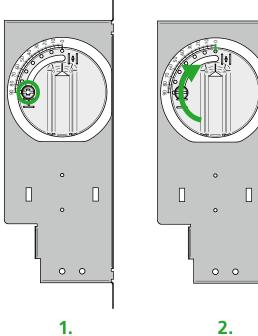
- Find the product's length and air connection diameter from left-hand side of the k-factor table.
- B Read the required k-factor on the row in question.
- Follow the vertical row and read the number of degrees at the

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

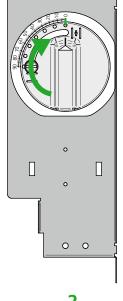
K-factor table



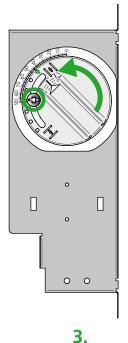
To enter settings for k-factor



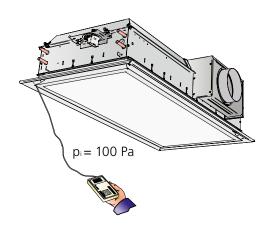
Loosen the screw located in the knob's groove.



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



Then turn the knob back to the angle for the desired k-factor (44° in our example) and tighten the screw.



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

$$q = k \cdot \sqrt{p_{i}} [l/s]$$

$$\sqrt{\frac{q}{p_{i}}} = k$$

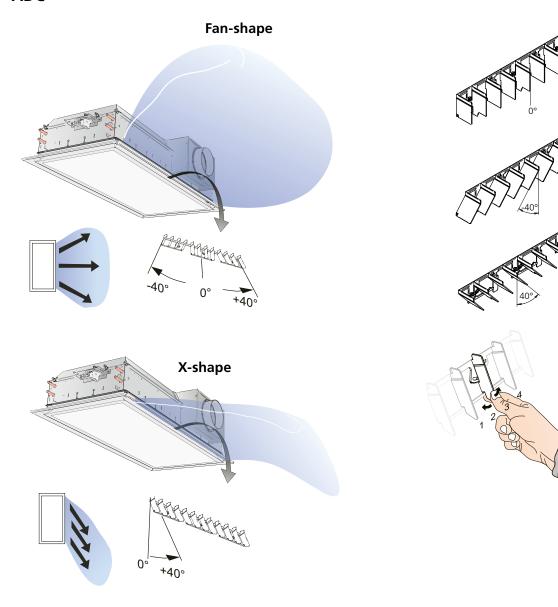
$$p_{i} [Pa]$$

$$q [l/s]$$

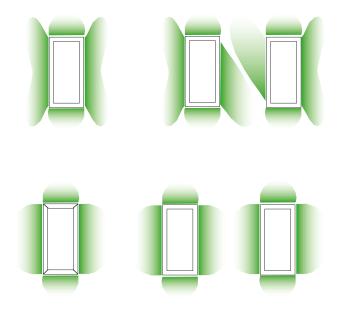
$$k = k\text{-factor}$$



ADC



Examples of ADC settings



Maintenance

