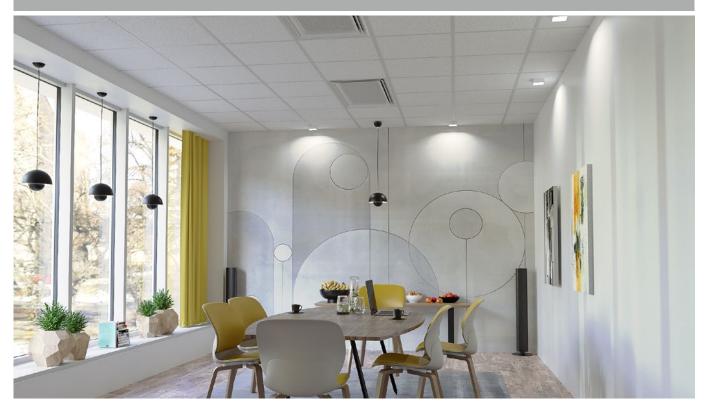
REACT Parasol Zenith

Comfort module with integrated variable flow regulation



QUICK FACTS

- High performance 4-way distribution comfort module with cooling, heating and ventilation
- The product is equipped with an actuator for flow adjustment, terminal block and air connection for flow measurement
- Simple commissioning because the flow measurement is performed directly in the air connection
- O Pressure-independent flow regulation
- Can easily be integrated by a control equipment supplier via Modbus communication
- O Large span between the lowest and highest air flow
- Few variants for easier sizing and variable air flow control
- Optimised for low energy consumption
- O Manages high air flow at low driving pressure
- Easy installation on account of low weight, compact dimensions and optional air connections on short or long sides
- O Hygiene design as an option for hospital applications

Va	riant	S	upply	air	Performa	nce
Size	Air con- nection:	Pa*	l/s	m³/h	Total cooling capacity (W)**	Sound level (dB(A))
600	125	75	20	72	493	26
600	125	75	25	90	564	28
600	125	75	30	108	631	30
600	160	75	25	90	566	27
600	160	75	35	126	697	30
600	160	75	45	162	809	33
1200	125	75	25	90	882	26
1200	125	75	35	126	1077	28
1200	125	75	45	162	1218	30
1200	160	75	30	108	900	23
1200	160	75	60	216	1375	28
1200	160	75	80	288	1591	34
1800	200	75	60	216	1590	30
1800	200	75	80	288	1890	33
1800	200	75	100	360	2135	35

^{*}Total pressure duct (Pa)

^{**}Air: $\Delta T_{j} = 7K$ / Water: $\Delta T_{mk} = 8.5K$, $t_{water} = 14/17^{\circ}C$



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Documentation

The following documentation can be downloaded from our website www.swegon.com.

REACT Parasol Zenith installation instructions

REACT Parasol Zenith Modbus

REACT Parasol Zenith Building Materials Declaration

REACT Parasol Zenith CE Declaration





Benefits of REACT Parasol Zenith

The list below shows a few of the benefits enjoyed by the consultant, architect, installer and user

Planning and design

- Energy efficient product high cooling capacity at low driving pressure
- Few variants with large application area Large span regarding minimum to largest air flow
- Available in three sizes 600, 1200 and 1800
- High comfort irrespective of room placement Easy to adapt to the direction for optimal room comfort both initially and in the event of future changes to the floor plan
- Easy planning through alternative air connections choose short or long side connection

Architecture and design

- Face plate always at the same level as the suspended ceiling, irrespective of operating mode
- Space efficient takes up very little ceiling space
- Numerous options with different colours

Installation

- Simple commissioning directly on the product
- Simplicity in projects where master system is preselected
- Lowest weight on the market simpler and more ergonomic handling
- Compact dimensions can often be installed in existing roof system, without the need of dismantling this
- Possibility of air connection on the short side faster installation with less material usage
- Easily accessible water connections access with press coupling tool if this is used

Use

- Low energy consumption high capacity at low driving pressure
- High comfort double outlet provides improved Coanda effect even at low pressure
- 4-way air distribution ensures very good mixing
- ADC air deflector change the air flow pattern as required for each side
- Low sound levels



Technical description

Comfort module REACT Parasol Zenith

REACT Parasol Zenith is a combination of a Parasol Zenith comfort module and flow regulation (VAV function) in the same unit. Flow measurement is performed in the unit directly by the air connection.

The product is factory-fitted as standard with an air connection for flow measurement, an actuator for flow adjustment and a terminal block. React Parasol Zenith can be controlled with a preselected main control system.

The large cooling capacity also enables a lower duct pressure or a higher cooling water temperature to be used, which saves energy and also improves room comfort further.



Variant A: Supply air and waterborne cooling,

(600, 1200 and 1800)

Variant B: Supply air, waterborne cooling and heating

(600, 1200 and 1800)

Installation: Flush mounting for suspended ceilings



Figure 1. Product image (REACT Parasol Zenith 1200)

Range of application

REACT Parasol Zenith is ideal for use as a standard application in such premises as:

- Offices and conference rooms
- Preschools
- Classrooms
- Hotels
- Restaurants
- Hospitals
- Shops
- Shopping centres

Market-based module dimensions

The order range includes module dimensions to fit the standardised ceiling measurement c-c 600, 625 and 675 mm. In addition, there is a mounting frame for drywall ceilings and ceiling solutions of the clip-in-type, for example, Dampa and FineLine. In order to guarantee a good fit in T-bar systems, we recommend T sections with a width of 24 mm.

Design

The face plate of REACT Parasol Zenith is always flush, i.e. always in line with the suspended ceiling, which gives a stylish and discreet installation. The double outlets means that there is no need to lower the face plate for high air flow rates, maximum capacity (induction) is still achieved.

Colour

The product is painted as standard in our standard colour RAL 9003 signal white, gloss ratio $30 \pm 6\%$. The product can also be ordered in the following colours.

RAL 7037 dusty grey, gloss ratio 30-40%

RAL 9010 pure white, gloss ratio 30-40%

RAL 9005 jet black, gloss ratio 30-40%

RAL 9006 white aluminium, gloss ratio 70-80%

RAL 9007 grey aluminium, gloss ratio 70-80%

Special types

On request, the product can also be obtained with e.g.:

- Optional colour or relief finish paint.
- Face plate with different perforation pattern

For further particulars about special types, get in touch with your nearest Swegon representative.



Function

REACT Parasol Zenith is a 4-way air discharge comfort module with induction function. Exactly as in a climate beam, the supply air is used to operate the cooling and heating function of a central air handling unit and therefore does not include an integrated fan or other moving parts. This gives very quiet operation and minimal maintenance requirements. Unlike a 2-way air discharge climate beam, air distribution to the room occurs from all 4 sides of the unit, which means as large areas of the ceiling as possible are used to spread the air, thus ensuring comfort in the occupied zone.

REACT Parasol Zenith is a combination of comfort module Parasol Zenith and a VAV damper in the same unit. All available versions of REACT Parasol Zenith have flow measurement in the air connection. As a result, commissioning is simple as the person performing the commissioning can read the air flow directly on the product.

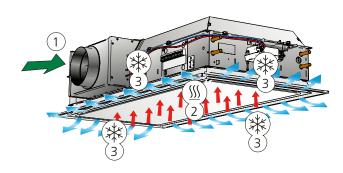


Figure 2. Variant A: Cooling and supply air function

- 1 = Primary air
- 2 = Induced room air
- 3 = Primary air mixed with cooled room air

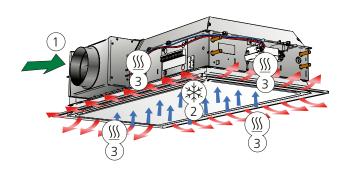


Figure 3. Variant B: Heating and supply air function

- 1 = Primary air
- 2 = Induced room air
- 3 = Primary air mixed with heated room air

Induction principle

Primary air (A) from the air handling unit provides REACT Parasol Zenith with supply air via a supply air duct and builds up positive pressure in the unit's plenary.

The supply air is forced out at high speed through small slots (B). The high speed means that the surrounding air is drawn in and mixed with supply air, which generates negative pressure above the unit's integrated heat exchanger (C). Room air (D) is continuously drawn up from the room through the water-based heat exchanger where, if necessary, it is cooled or heated before it mixes with the supply air.

The mixed air is then distributed to the room via aero-dynamically designed outlets. The outlets are designed to ensure that the distributed air follows the suspended ceiling by utilising the so-called Coanda effect (E). The supplied air is then mixed with additional room air, which further lowers the air velocity and lessening the temperature difference before it reaches the occupied zone.

The proportion of recirculated room air drawn through the heat exchanger is typically about 3-5 times the proportion of primary air, i.e. if 20 l/s supply air comes from the air handling unit, then approximately 60-100 l/s room air will pass through the exchanger and be tempered.

Condensation-free cooling

REACT Parasol Zenith has been developed to work condensation-free and therefore requires no drainage system or filter. Normally inlet temperatures between 14-16 °C are used for the cooling water.

High comfort – today and tomorrow.

A good indoor climate is characterized by good air quality and the correct room temperature without draughts and noise. Different requirements are made on air flow, cooling capacity and heating capacity depending on the type of building in question and how this will be used.

As greater demands are made on being able to offer customised office solutions and to easily change the floor layout for new or existing tenants if changed needs arise, it is important to take this into consideration as early as the design phase. As this will minimise future costs for rebuilding. Regardless of the scenario, the new REACT Parasol Zenith – through its simplicity in terms of air flow range, operation and commissioning – provides all the opportunities to find this flexible and optimal solution.

Control variants

REACT Parasol Zenith provides unique advantages with its slot control and, through this, a large working range on the air side.

REACT Parasol Zenith is a developed version of Parasol Zenith that has been produced to cope with a large air flow range in one and the same product, which provides benefits during dimensioning.

Use room controller LUNA for temperature control of air, heating and cooling, or preselected control equipment.

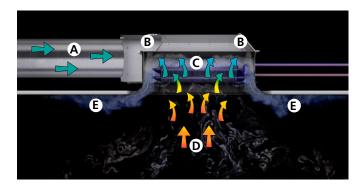


Figure 4. Induction principle in REACT Parasol Zenith

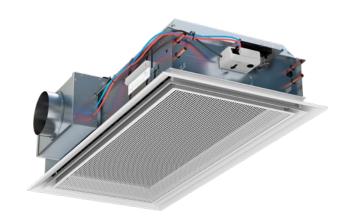


Figure 5. REACT Parasol Zenith.



Large working range

REACT Parasol Zenith controls the internal air flow with slot control instead of nozzles. This maintains the air pressure within the product, which ensures the function even at low air flows. This means that one product can manage a large air flow range, which provides benefits during sizing, rebuilding work and in the event of altered requirements.

The following benefits are provided during installation:

- Fewer variants through large air flow ranges/K-factor areas
- Products with easy k-factor setting on site for quick start of the build
- Simple commissioning

In order to clarify the large working range of REACT Parasol Zenith, we can compare the curves for cooling capacity/air flow with the cooling requirements for seven different types of rooms:

A+B Individual office room (1 person)
C+D Office for customer visits (3 people)
E, F, G, H Conference room (4, 6, 8, 12 people)

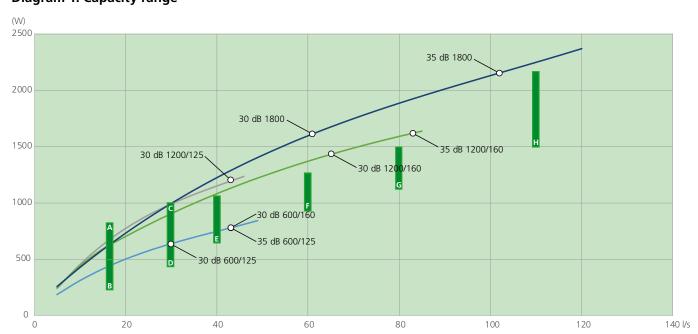
The individual office and the office for customer visits are assumed to be placed at the façade, while the conference room is assumed to be placed on the floor's inner zone.

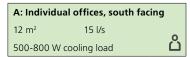
In the diagram, we can see that the product variants can handle all types of rooms. All that is required is to adjust the slot openings as required.

You can also see that the products can give a higher cooling capacity than the demand. This allows several options:

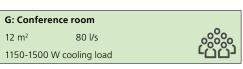
- Use the full capacity to quickly correct the deviations in room temperature
- Lower the driving pressure in the supply air duct and save fan energy
- Increase the supply flow temperature of the cooling water and save energy (chiller)

Total cooling capacity, air and water Diagram 1: Capacity range





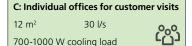




B: Individual office, solar protection					
12 m²	15 l/s	0			
250-500 V	V cooling load	۵			



1500-2200 W cooling requirement	-000-
Prerequisites: Supply air: $\Delta P_i = 75 \text{ Pa}$; $\Delta T_i = 7K$ Cooling water: $t_{in} = 14^{\circ}\text{C}$; $t_{in} = 17^{\circ}\text{C}$ Room: $t_{room} = 24^{\circ}\text{C}$	





110 l/s

H: Conference room

18 m²

Comfort guarantee

As previously described, REACT Parasol Zenith has 4-way air distribution, which gives low air velocities in the occupied zone. Distributing the cooled air over a large ceiling area creates the low air velocity. The comfort module's closed design with a circulation opening for return air in the face plate of the module also contributes to its advantageous mixing performance.

With its aerodynamically designed dual outlets in combination with the integrated damper and the placement of the slot openings, REACT Parasol Zenith distributes the air with very good adhesion to the suspended ceiling (Coanda effect) even at low driving pressure and you do not need to place a commissioning damper in front of the product.

If you still, for example in large conference rooms with up to four products, want to install a VAV damper in front, the duct pressure, dependent on the air flow rate, can be lowered down to 20 Pa.



Figure 6. Double outlets.

All comfort modules contain ADC as standard. ADC stands for Anti Draught Control, which enables you to set the diffusion pattern of the air being distributed to avoid risk of draught.

ADC can also be used to reduce the throw length. By setting ADC to L-shape, the distance between two units can be reduced to a minimum and still ensure good comfort.

A number of ADC sections with nine air deflectors per section are arranged on each side of the unit. Each section is adjustable from a straight setting to 40° air deflection to the right or left in increments of 10°. This provides great flexibility and can be adjusted without having to affect the system as a whole.

The direction of the air can be easily adjusted and gives future-proofing, offering a simple measure on location for any change to the furnishings and layout. The ADC does not affect the noise level or static pressure at all.

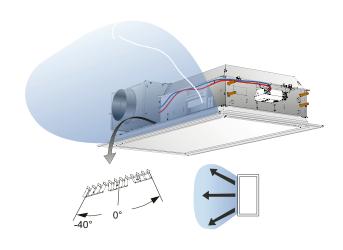


Figure 7. Possible settings for the ADC, Fan-shape

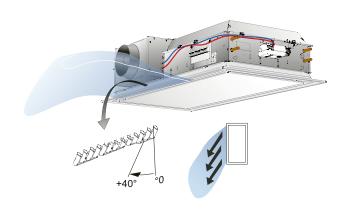


Figure 8. Possible settings for the ADC, X-shape

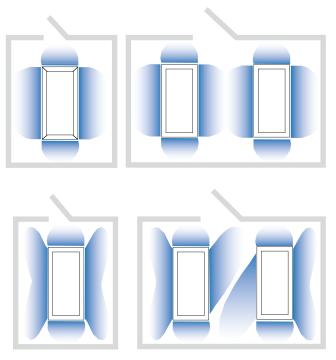


Figure 9. REACT Parasol Zenith with examples of different ADC settings



Easy installation

REACT Parasol Zenith is built on a platform with very compact dimensions. In many cases the design permits installation in the existing T-bar system without the need of dismantling, provided that there is at least 300 mm of space between the suspended ceiling and the joists.

The slim design and low weight result in simpler handling, especially when handling the products on the construction site, which provides less handling damage and a better working environment. REACT Parasol Zenith's compact units fit most common modular dimensions and fit most suspended ceiling systems on the market. As standard the units include four mounting brackets. These are adjustable +/- 20 mm in both directions and in doing so create the adjustment range normally required during installation.



Figure 10. Installation in existing T-bar system

Hygienic design

REACT Parasol Zenith is available as a variant with a foldout coil for easy access to the complete heat exchanger.

A dust-free environment is especially important in rooms with elevated hygiene demands. Over time, large amounts of room air pass through REACT Parasol Zenith's coil (heat exchanger). Dust particles, which fasten on the coil, not only result in less capacity, but also fail to comply with the hygiene requirements that apply to the room. REACT Parasol Zenith has, as an option, the possibility of fold-out coils to meet these requirements.

In addition to normal cleaning, by wiping off dust from the white painted surfaces exactly as you clean other surfaces in the room, the option of more thorough cleaning is now possible.

- 1. It is recommended to vacuum clean the coil several times a year. More frequently in a room with a lot of textiles and a high rate of air change. The face plate is opened or dismantled to gain access to the coil, see figure 11.
- 2. In environments with elevated hygiene demands additional cleaning of the comfort module may be a requirement. The use of flexible connection hoses and the possibility to fold out the coil also permits cleaning of the top of the coil in these instances, see figure 12.



Figure 11. Removing the face plate to access the coil



Figure 12. Removing the face plate and folding out the coil for accurate cleaning in the event of high hygiene requirements. Note! requires the product to be ordered with the accessory, fold-out coil, and that flexible connection hoses are used on the water side.

Alternative air connections

To simplify the duct installation and reduce the number of duct bends gives several advantages. Installation time is shorter and the cost of materials decreases while the pressure drop and noise generation are also reduced.

Installations frequently appear as in figure 13. Straight ducts are of course always preferable.

Depending on the size, you can order REACT Parasol Zenith with air connections on any long or short side, see table and figure 16.

It's also possible to change the air connection side at a later date, see page 12 for more information.

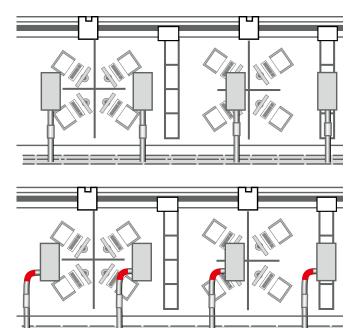


Figure 13. Installation example. Straight air connection, alternative with 90° bend. However, a 90° bend before the product requires 3 diameters of straight section before the product.

Selectable air connection sides

When ordering, depending on the length, it is possible to choose air connection side 1, 2, 3 or 4 as set out in the table below, also see figure 16.

Longth	Air	Air connection side						
Length	1	2	3	4				
600	Yes	No	Yes	No				
1200, 1800	Yes	Yes	Yes	Yes				

Easily accessible water connections

The water pipes are very easily accessible, which facilitates connection, particularly if e.g. press couplings and associated tools are used.

This saves installation time and simplifies a safe water connection.

The pipes are placed in a standardised fashion, which means irrespective of product the cooling and possibly heating pipes are always positioned in the same way, which facilitates installation



Figure 14. Air connection on the product's short side, 1 or 3.

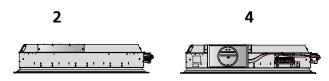


Figure 15. Air connection on the product's long side, 2 or 4.

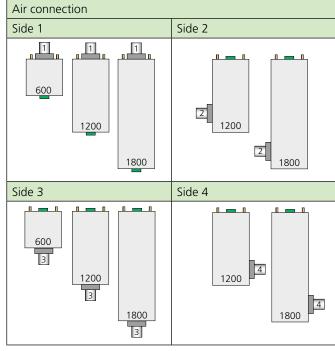
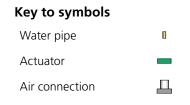


Figure 16. Selectable air connections, (view from above)





Installation - Details

Suspension

REACT Parasol Zenith has four mounting brackets for suspension and is installed using one threaded rod in each mounting bracket (Figure 18). A double threaded rod with a thread lock should be used if there is substantial distance between the overhead slab and the unit. A 200 mm threaded drop rod is used for surface mounting. Threaded drop rods and assembly fitting SYST MS M8 (Figure 17) are ordered separately.

For installation in an existing T-bar system, the product is stabilised by the T-bar system and in this case it is sufficient to suspend the product from two brackets (diagonal).



For an even more efficient and time-saving installation, we have developed a kit for easier installation. PARASOL Z QUICK SUSPENSION KIT, consisting of 2 fixed brackets.

The fixed brackets are fastened to the ceiling. The product can then be pushed into place without the use of tools. The brackets also feature an integrated fine adjustment of approx. 50 mm in height. (Figure 19).

Centring kit

The centring kit can ideally be used on the ceiling system such as FOCUS E, FOCUS D and similar ceilings with concealed T-bar system or shadow line.

The kit consists of 6 centring rails that are used to centre the product in specific suspended ceiling systems. (Figure 20).

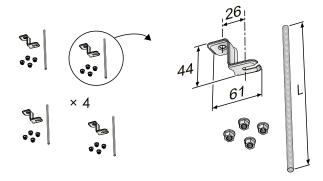


Figure 17. Assembly fitting SYST MS M8-1, ceiling mount and threaded rod

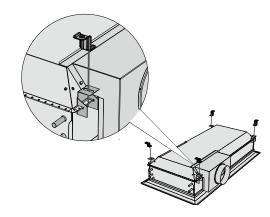


Figure 18. Suspension in four brackets with SYST MS M8

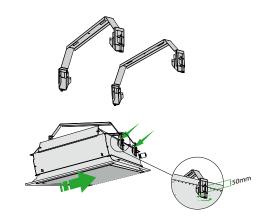
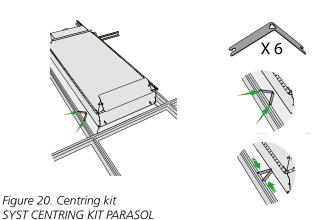


Figure 19. Installation with quick bracket PARASOL Z QUICK SUSPENSION KIT





Connections

Connection dimensions

Water

Unit	Cooling	Heating		
(mm)	Supply and return	Supply and return		
600, 1200	plain pipe ends	plain pipe ends		
600, 1200	(Cu) Ø 12 x 1.0 mm	(Cu) Ø 12 x 1.0 mm		
1800	plain pipe ends	plain pipe ends		
1800	(Cu) Ø 15 x 1.0 mm	(Cu) Ø 12 x 1.0 mm		

Alternative to factory-fitted valves

Unit	Cooling	Heating
(mm)	Return	Return
600, 1200	DN15 male thread	DN15 male thread
1800	DN20 male thread	DN15 male thread

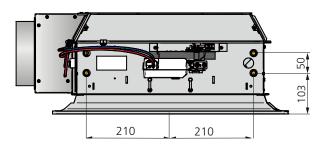


Figure 21. Dimensions, water connection length 600, 1200, 1800



Figure 22. Water connection - Length 600, 1200 and 1800*

A1 = Inlet, cooling water $Ø12 \times 1.0 \text{ mm}$ (Cu)

A1 = Inlet, cooling water $\emptyset15 \times 1.0 \text{ mm}$ (Cu) *(Size 1800)

A2 = Return, cooling water $\emptyset 12 \times 1.0 \text{ mm}$ (Cu)

A2 = Return, cooling water $\emptyset 15 \times 1.0 \text{ mm}$ (Cu) *(Size 1800)

B1 = Inlet, heating water $\emptyset 12 \times 1.0 \text{ mm}$ (Cu)

B2 = Return, heating water $\emptyset 12 \times 1.0 \text{ mm}$ (Cu)

Connecting water

The water pipes are always placed on the product's short side, regardless of the air connection side of the product.

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 flatend pipes and valves, and can be ordered separately.

Air

Unit	Air connection, diameter Ø					
(mm)	Ø 125 Ø 160 Ø 200					
600, 1200	Yes	Yes	No			
1800	No	No	Yes			

To connect the air

REACT Parasol Zenith comes with open air connection on the selected side 1, 2, 3 or 4.

On delivery the sleeve faces inwards. During installation, the sleeve is turned outwards and is secured with the enclosed screws to then be connected to the primary air duct.

If you subsequently want to change the air connection side than that ordered, you can change the positions of the cover and connection sleeve as set out below.

Possibility to change the connection side

- From side 1 to side 2 or 4. (Does not apply to length 600)
- From side 2 to side 3 or 4.
- From side 3 to side 2 or 4. (Does not apply to length 600)
- From side 4 to side 2 or 3.

K-factor

At the air connection, there is a label showing the K-factor for the product with air connection ø125/160/200.

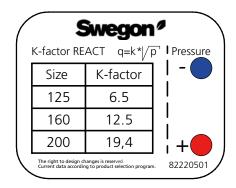


Figure 23. Label with the K-factor values.

Modbus

For Modbus settings, see:

REACT Parasol Zenith Modbus



Technical data

Recommended limit values

Pressure levels

Coil working pressure, max. 1600 kPa *
Coil test pressure, max. 2400 kPa *
* Applicable without control equipment mounted

Nozzle pres- 20-200 Pa

sure

Recommended lowest nozzle pressure, cooling

Air flow (l/s)
pressure (pa)

<10 50
10-30 25
>30 20

Recommended lowest nozzle pressure 70 Pa if coil heat is used.

Water flow

Ensures evacuation of any air pockets in the system.

Cooling water, min.

0.030 l/s

Heating water (1200), min.

0.013 l/s

Temperature differentials

Cooling water, temperature increase 2-5 KHeating water, drop in temperature 4-10 K

Temperature differences are always expressed in Kelvin (K).

Supply flow temperature

Cooling water **
Heating water, max. 60 °C

** Cooling water must always be kept at a level that ensures that no condensation is formed.

Table 1. Cooling capacity for natural convection

Unit	Cooling capacity (W) at temperature difference, room - water ΔT_{mk} (K)							
(mm)	6	6 7 8 9 10 11 12						
600	28	33	56	62				
1200	69	83	97	111	125	141	155	
1800	89	106	123	143	160	179	199	

Table 2. Pressure drop constant – water, K_{pk}

	Function, k _{pk} cooling					
Unit (mm)	A2	B2				
600*	0.0218	0.0246				
1200*	0.0161	0.0180				
1800**	0.0320	0.0341				

A2 = Cooling and supply air, serial connected double row coil

B2 = Cooling, heating and supply air, serial connected double row coil

* K_{pk} values for the water flow 0.05 l/s.

** K_{pk} values for the water flow 0.1 l/s.

Cooling

Table 3 – Data – Cooling. Sizing Guide for REACT Parasol Zenith at 75 Pa

Unit	Air	flow	Noise level	Coolin		of prima (K)	ry air for	Cod	oling capa	city of wat	ter for ∆T _m	_k (K)	Pressure drop con stant, air
mm	l/s	m³/h	dB(A)	6	8	10	12	6	7	8	9	10	k _{pl}
600 A Ø125	10	36	21	72	96	120	144	167	194	222	250	278	1.16
	20	72	26	144	192	240	288	227	265	303	341	379	2.34
	30	108	30	216	288	360	432	266	311	355	399	444	3.56
	40	144	33	288	384	480	576	290	339	387	435	484	4.86
	46	166	36	331	442	552	662	295	344	393	442	491	5.7
600 A Ø160	10	36	20	72	96	120	144	167	194	222	250	278	1.16
	20	72	25	144	192	240	288	229	267	305	343	381	2.32
	30	108	29	216	288	360	432	269	313	358	403	448	3.49
	40	144	32	288	384	480	576	296	345	394	443	493	4.69
	49	176	34	353	470	588	706	305	355	406	457	508	5.8
600 B Ø125	10	36	21	72	96	120	144	152	178	203	228	254	1.16
	20	72	26	144	192	240	288	202	235	269	303	336	2.34
	30	108	30	216	288	360	432	236	276	315	354	394	3.56
	40	144	33	288	384	480	576	254	296	338	380	423	4.86
	46	166	36	331	442	552	662	260	304	347	390	434	5.7
600 B Ø160	10	36	20	72	96	120	144	152	178	203	228	254	1.16
-55 5 5 100	20	72	25	144	192	240	288	203	236	270	304	338	2.32
	30	108	29	216	288	360	432	238	277	317	357	396	3.49
	40	144	32	288	384	480	576	259	302	345	388	431	4.69
	49	176	34	353	470	588	706	271	316	361	406	451	5.8
1200 A Ø125	10	36		72	96	120	144	273	319	364	410	455	1.16
1200 A Ø125			<20										
	20	72	25	144	192	240	288	415	484	553	622	691	2.34
	30	108	27	216	288	360	432	510	595	680	765	850	3.57
	40	144	29	288	384	480	576	571	666	761	856	951	4.89
1200 1 0100	45	162	30	324	432	540	648	590	688	786	884	983	5.59
1200 A Ø160	10	36	<20	72	96	120	144	275	321	367	413	459	1.16
	25	90	23	180	240	300	360	419	489	559	629	699	2.90
	40	144	25	288	384	480	576	518	605	691	777	864	4.69
	60	216	28	432	576	720	864	616	718	821	924	1026	7.19
	86	310	36	619	826	1032	1238	654	763	872	981	1090	10.76
1200 B Ø125	10	36	<20	72	96	120	144	260	303	346	389	433	1.16
	20	72	25	144	192	240	288	380	444	507	570	634	2.34
	30	108	27	216	288	360	432	456	532	608	684	760	3.57
	40	144	29	288	384	480	576	509	594	679	764	849	4.89
	45	162	30	324	432	540	648	531	620	708	797	885	5.59
1200 B Ø160	10	36	<20	72	96	120	144	239	278	318	358	398	1.16
	25	90	23	180	240	300	360	389	453	518	583	648	2.90
	40	144	25	288	384	480	576	480	560	640	720	800	4.69
	60	216	28	432	576	720	864	566	661	755	849	944	7.19
	86	310	36	619	826	1032	1238	611	713	815	917	1019	10.76
1800 B Ø200	10	36	21	72	96	120	144	235	274	313	352	391	1.16
	40	144	29	288	384	480	576	609	711	812	914	1015	4.65
	60	216	30	432	576	720	864	761	888	1015	1142	1269	7.03
	80	288	33	576	768	960	1152	854	996	1138	1280	1423	9.48
	100	360	35	720	960	1200	1440	907	1058	1209	1360	1511	12.03
1800 B Ø200	10	36	21	72	96	120	144	229	267	305	343	381	1.16
	40	144	29	288	384	480	576	581	678	775	872	969	4.65
	60	216	30	432	576	720	864	710	828	946	1064	1183	7.03
	80	288	33	576	768	960	1152	790	921	1053	1185	1316	9.48
	100	360	35	720	960	1200	1440	844	984	1125	1266	1406	12.03

Locked ΔI 3K on the water side, temperature inlet flow +14°C, return flow +17°C.

The specified sound level applies to straight connection without damper or with fully open damper. Room attenuation = 4 dB



Heating

Heating function

As the comfort module is able to quickly mix the primary air with the room air, REACT Parasol Zenith is ideal for managing both cooling and heating. Heating spaces with air heated above room temperature discharged from the ceiling is a good alternative to conventional radiator heating solutions. The benefits achieved include lower installation costs, simpler installation and perimeter walls free from piping and radiators.

Supplying heated air from the ceiling can result in some stratification of the air, even if the Coanda effect mixes the conditioned air with the existing room air. With a maximum supply flow temperature of 40°C, the stratification is non-existent, while at 60°C it can be around 4 K in the occupied zone. This only applies during the warming-up phase, when the room is unused and there is no internal load. When the room is being used and lighting and people are present, the stratification is reduced or disappears depending on the heating requirement.

Laboratory studies, computer simulations and reference projects all show that a good indoor climate will be achieved by means of the REACT Parasol Zenith comfort module whatever the time of year.

Table 4. Pressure drop constant – water, K_{nv}

	Function, K _{pv} heating*					
Unit (mm)	A2	B2				
600	-	0.0389				
1200	-	0.0287				
1800	-	0.0243				

B2 = Cooling, heating and supply air, serial connected double row coil



^{*}K_{py}values for the water flow 0.03 l/s.

Table 5 - data - heating. Sizing Guide for REACT Parasol Zenith at 75 Pa

Unit	Air	flow	Noise level		Heatir	ng capacity,	water for Δ	T _{mv} (K)		Pressure drop constant air
mm	l/s	m³/h	dB(A)	10*	15	20	25	30	35	k _{pl}
600 B Ø125	10	36	21	145*	242*	345*	454*	567*	685*	1.16
	20	72	26	184*	304*	435*	518	649	786	2.34
	30	108	30	203*	339*	486*	582	732	888	3.56
	40	144	33	213*	357*	513*	616	775	942	4.86
	46	166	36	215*	361*	519*	624	787	956	5.7
600 B Ø160	10	36	20	145*	240*	345*	573*	568*	686*	1.16
	20	72	25	184*	305*	435*	520	650	787	2.32
	30	108	29	205*	340*	489*	584	735	890	3.49
	40	144	32	217*	362*	519*	622	783	950	4.69
	49	176	34	220*	369*	530*	636	802	974	5.8
1200 B Ø125	10	36	<20	346*	429*	637*	856*	1056*	1260*	1.16
	20	72	25	350*	498	755	1034	1342	1648	2.34
	30	108	27	408*	587	891	1220	1587	1905	3.57
	40	144	29	438*	629	947	1292	1665	1996	4.89
	45	162	30	453*	654	987	1379	1728	2074	5.59
1200 B Ø160	10	36	<20	165*	289*	422*	550*	683*	819*	1.16
	25	90	23	364*	520	780	1059	1389	1668	2.90
	40	144	25	440*	628	934	1265	1619	1941	4.69
	60	216	28	500*	716	1060	1457	1805	2162	7.19
	86	310	36	516*	743	1104	1512	1876	2251	10.76
1800 B Ø200	10	36	29	140*	235*	334*	374*	545*	655*	1.16
	40	144	30	560*	950	1372	1815	2135	2770	4.65
	60	216	31	654*	1105	1590	2100	2420	3200	7.03
	80	288	33	707*	1200	1730	2295	2610	3500	9.48
	100	360	35	773*	1297	1860	2460	2760	3730	12.03

Locked ΔT 10K on the water side, temperature room +20°C.

The specified sound level applies to straight connection without damper or with fully open damper. Room attenuation = 4 dB



^{*)} ΔT 5K on the water side

Natural attenuation and end reflection

Natural attenuation ΔL (dB) including end reflection.

Table 6. Natural attenuation △L (dB) REACT Parasol Zenith 600 Ø125

		Octave band (Hz)									
K-factor	63	125	250	500	1k	2k	4k	8k			
0	20	19	16	16	13	15	20	26			
1	19	16	8	6	7	8	12	19			
3	19	15	7	6	6	7	10	16			
4	19	14	7	6	6	6	9	15			
5.8	17	14	7	5	6	5	9	14			

Table 10. Natural attenuation ΔL (dB) REACT Parasol Zenith 1800 \varnothing 200

		Octave band (Hz)								
K-factor	63	125	250	500	1k	2k	4k	8k		
0	19	15	11	7	7	9	15	19		
3	18	14	10	6	6	6	13	17		
7	18	14	10	5	5	5	1	16		
11	18	14	10	5	5	5	9	15		
14.6	18	14	9	5	4	4	9	13		

Table 7. Natural attenuation △L (dB) REACT Parasol Zenith 600 Ø160

		Octave band (Hz)								
K-factor	63	125	250	500	1k	2k	4k	8k		
0	21	21	20	16	13	16	23	24		
1	21	18	9	8	8	9	15	20		
3	18	16	9	5	6	6	11	15		
4	19	14	9	6	5	5	10	13		
5.8	15	11	6	4	5	5	10	13		

Table 8. Natural attenuation △L (dB) REACT Parasol Zenith 1200 Ø125

		Octave band (Hz)									
K-factor	63	125	250	500	1k	2k	4k	8k			
0	22	18	11	11	11	13	18	24			
2	20	16	7	7	7	7	11	18			
4	19	14	7	6	6	6	9	16			
5.6	20	15	6	6	6	6	9	15			

Table 9. Natural attenuation ΔL (dB) REACT Parasol Zenith 1200 \varnothing 160

		Octave band (Hz)									
K-factor	63	125	250	500	1k	2k	4k	8k			
0	18	16	13	11	12	13	20	22			
2	17	13	8	6	7	7	12	18			
4	16	13	7	5	6	6	10	16			
6	18	13	7	5	5	5	9	15			
8	17	13	7	4	5	4	9	14			
11	15	13	7	4	5	4	9	13			

Optional extras and accessories

Factory-fitted optional extras

The optional extras and accessories below can be ordered factory-fitted on the product, and will then be connected to the terminal block

Actuator, BELIMO VAV-Compact MOD

Volumetric flow regulator VAV-Compact, 5 Nm, AC/DC 24 V, BACnet MS/TP, Modbus RTU, MP-Bus, IP54



Actuator, GRÜNER 327

Volumetric flow regulator VAV-Compact, 5 Nm, AC/DC 24 V, Modbus RTU, IP42



Factory-fitted accessories

Different types of actuators

Do you need a different type of actuator? Swegon has installed a number of different actuators in its products. Get in touch and we will be happy to help you with your particular project.

Valve (Straight)

REACT Parasol Zenith can be ordered with factoryfitted valves for cooling and heating.

The valve is mounted on the product and preset fully open.

For more information about the valve, see the separate product data sheet on www.swegon.com.

Unit	Function	Туре	Dim.	K _v (m³/h)
600, 1200	Cooling/ heating	VDN215	DN15 (½")	0.07-0.89
1800	Heating		,	
1800	Cooling	VDN220	DN20 (¾")	0.22-1.41



Valve actuator, ACTUATORc

REACT Parasol Zenith can be ordered with factory-fitted valve actuators for cooling and heating. 24V AC/DC, NC (Normally Closed).

For more information about the valve actuator, see the separate product data sheet on www.swegon.com.



Condensation sensor CG-IV

CG-IV is a condensation sensor with sensor element, consisting of a circuit board with gold plated conductive paths that react when condensation occurs between the paths.

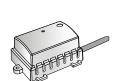
When condensation arises, the cooling valve closes the incoming water flow to the product. The cooling valve is permitted to open again when the condensation on the conductive paths has been wiped off.



Condensation sensor WCD2

The detector operates at the dew point temperature rather than a fixed relative humidity value.

The dew-point is calculated from a temperature compensated RH element and an extremely accurate sensor element that is bound to the metal plate on the detector. Compatible with LUNA.



Fold-out coil

REACT Parasol Zenith can be ordered as a variant with fold-out coil for easy access and cleaning of the complete coil. REACT Parasol Zenith with fold-out coil is well suited for use in rooms where stringent demands are placed on hygiene. The accessory requires the use of flexible hose connections on the water side.





Loose accessories

Controller LUNA RC

Swegon's room controller for air and waterborne indoor climate systems

LUNA RC is a versatile room controller for regulating the temperature in individual rooms and for control applications in respect of variable air volume (VAV)

LUNA RC, available in two variants:

- LUNA RC TEMP-MB room controller in standard version
- LUNA RC CO₂-TEMP-MB room controller with built-in CO₂ sensor

For more information about the LUNA RC control equipment, see the separate product data sheet on www.swegon.com.

Controller LUNA RE

Swegon's room controller LUNA RE MB for air and waterborne indoor climate

LUNA RE MB for regulating the room temperature. Set point value is set on the controller which is mounted on the wall.

For more information about the LUNA RE MB control equipment, see the separate product data sheet on www.swegon.com

Commissioning tool ZTH EU

Commissioning/service tool for e.g. setting the air flows and BUS parameters.

ZTH EU

Cable, ZK1-GEN

Cable for connecting between actuator and commissioning/service tool.

DETECT Occupancy – Occupancy detector

DETECT O V110 – For wall and corner installation DETECT O T360 – For ceiling installation.

For more information about DETECT O, see the separate product data sheet on www.swegon.com.



Assembly fitting, SYST MS M8

For installation use the assembly fitting containing threaded rods, ceiling brackets and nuts to all four mounting brackets. Also available with threaded drop rods and thread locks.

Assembly fitting, PARASOL Z QUICK SUSPENSION KIT

The kit consists of 2 fixed brackets to suspend REACT Parasol Zenith.

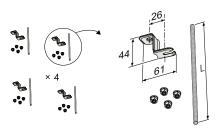
The fixed brackets are fastened to the ceiling, after which the product can be pushed into place without the use of tools. The brackets also feature an integrated fine adjustment of approx. 50 mm in height.

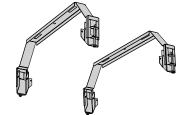














REACT Parasol Zenith

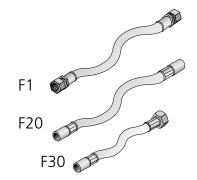
Flexible connection hoses, SYST FH

Flexible hoses are available with quick-fit, push-on couplings as well as clamping ring couplings for quick and simply connection. The hoses are also available in various lengths. Note that compression ring couplings require support sleeves inside the pipes. Example of hoses:

F1 = Flexible hoses with clamping ring couplings

F20 = Flexible hoses with quick-fit couplings (push-on)

F30 = Flexible hose with quick-fit coupling, (push-on) at one end and G20ID sleeve nut at the other end.



Connection piece, air - double nipple, SYST AD1

SYST AD1 is used as a joint between REACT Parasol Zenith and the duct system.

Available in three dimensions: Ø125, Ø160 and Ø200 mm.



Connection piece, air - 90° duct bend, SYST CA

90° duct bend for air connection. Nipple connection with seals at both ends.

Dimensions: Ø125. Ø160 and Ø200 mm



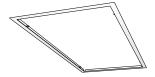
Bleed nipple SYST AR-12

Nipple for venting the water circuit. Equipped with push-on connector adapted for installation with flexible connection hose F20 and F30.



Drywall ceiling frame Parasol c T-FPB

Mounting frame for neat installation of REACT Parasol Zenith in drywall ceilings.



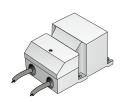
Centring kit, SYST CENTRING KIT PARASOL

The kit consists of 6 centring rails that can be used to centre the product in specific suspended ceiling systems.



Transformer SYST TS-1 72 VA

Double-insulated protective transformer 230 V AC/24 V AC See the separate product data sheet on www.swegon.com.



Transformer 30 VA

Transformer for the voltage supply of products.

Protective transformer with Euro plug or WAGO, Input voltage 230 V 50-60 Hz,
Output voltage 24 V AC, Power 30 VA, Double insulation, Enclosure IP33



Transformer, Power Adapt 20 VA

Double insulated protective transformer with plug type F.

Input voltage: 230 V. Output voltage, 24 V AC

See the separate product data sheet on www.swegon.com





Dimensions and weight

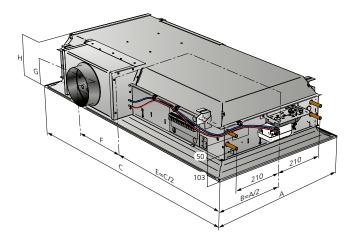


Figure 24. Dimensional drawing - long side connection (the length 1200 with air connection on side 2 is shown in the example).

Table 12. Dimensions

Length 600

	Dimensions (mm)											
А	В	С	C ØD* E 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					

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

Length 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					

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

Length 1800

Dimensions (mm)											
А	B C ØD E F G H										
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				

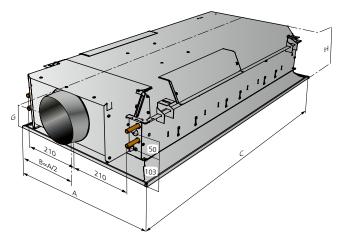


Figure 25. Dimensional drawing - short side connection (the length 1200 with air connection on side 1 is shown in the example).

Table 13. Weight

Length 600

Length	Type	Dim.	Dry weight	Water volume (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

Length 1200

Length	Type	Dim.	Dry weight	Water volume (l)	
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

Lenath 1800

Length	Type	Dim.	Dry weight	Water volume (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).

REACT Parasol Zenith with bend

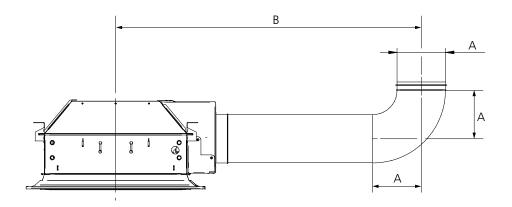


Figure 26. Dimensional drawing, long side connection with bend Ø125/160/200 Note that a 90° bend before the product requires 3 diameters of straight section before the product.

Unit	А	В
600	125	876
1200	125	876
1800		

А	В
160	1020
160	1020

А	В
200	1180

Air connection dimensions	
Unit (mm)	Dimensions Ø
600	Ø125 or Ø160
1200	Ø125 or Ø160
1800	Ø200

Specification

Contractor demarcation

Swegon's delivery ends at the connection points for water and air and the connection of any factory-fitted actuators. (See Figures 21-23 and 24-26.)

- The pipe contractor connects the connections points for water to the plain pipe ends and fills/flushes the system, bleeds it and tests the pressure. When valves are installed at the factory, the cooling and heating water's return line is connected to the valve. 600/1200: (Male thread, DN 15). 1800: Cooling: Male thread, DN 20, heating: Male thread, DN 15
- The ventilation contractor connects the supply air duct to the product air connection sleeves.
- If factory-fitted actuators are chosen, the electrical contractor connects the actuators' pinned cable ends to the room controller 24 V AC/DC.

Table 14. Dimensions, different ceiling types

Ceiling type	Dimensions of the face plate (mm)		
T-bar system	600 module	1200 module	
c-c 600	592x592	1192x592	
c-c 600 SAS130/15	584x584	1184x584	
c-c 625	617x617	1242x617	
c-c 650	642x642	1292x642	
c-c 675	667x667	1342x667	

Clip in/metal cas- sette	600 module	1200 module
c-c 600	598x598	1198x598
c-c 625	623x623	1248x623

The tolerance is ±2 mm.

Available to order

Size

Single-module unit:	Double module unit:
584 x 584 mm	1184 x 584 mm
592 x 592 mm	1192 x 592 mm
598 x 598 mm	1198 x 598 mm
603 x 603 mm	1213 x 603 mm
617 x 617 mm	1242 x 617 mm
623 x 623 mm	1248 x 623 mm
642 x 642 mm	1292 x 642 mm
667 x 667 mm	1342 x 667 mm

Three-module unit: 1784 x 584 mm 1792 x 592 mm 1798 x 598 mm 1823 x 603 mm 1867 x 617 mm 1873 x 623 mm 1942 x 642 mm 2017 x 667 mm

The tolerance is ± 2 mm.

Function The units can be ordered in various functional

A = Cooling and supply air (size 600, 1200)

and 1800)

B = Cooling, heating and supply air

(size 600, 1200 and 1800)

Factory-fitted ADC supplied as standard ADC

Size of connec-Ø125 (sizes 600 and 1200) tion sleeve Ø160 (sizes 600 and 1200)

Ø200 (size 1800)

Positioning of connection sleeves

Connection on the short side

1 = Air and water on the same side

3 = Air and water on the opposite side

Connection on the long side

2=Connection on the right hand side*

4=Connection on the left hand side*



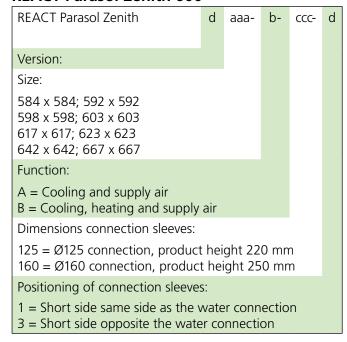
* Seen from the short side with water connections

Colour The units are supplied painted in Swegon's standard shade of white, RAL 9003, gloss

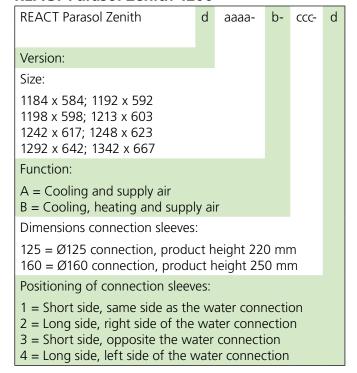
ratio 30 + 6%

Ordering key - Product

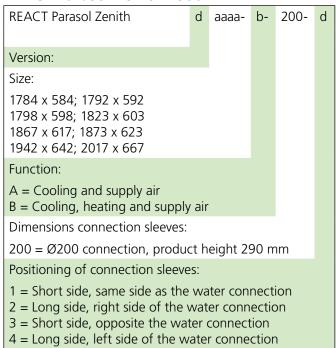
REACT Parasol Zenith 600



REACT Parasol Zenith 1200



REACT Parasol Zenith 1800





Specification text

CODE

VVS AMA PTD.4 0 Product with cooling & heating

AMA-codes XXX Page 1
TEXT QUANTITY

P UNITS; PIPES ETC IN PIPE SYSTEMS OR PIPE NETWORKS

PT ROOM MOUNTED HEATER AND COOLER

PTD ROOM DEVICES FOR HEATING AND COOLING

PTD.4 Duct connected room devices for heating and cooling

XXXX

Make: Swegon

Type: REACT Parasol Zenith d - B

Comfort module with integrated, pressure-independent VAV control.

Waterborne cooling and heating for integrated installation in suspended ceilings.

Double outlets for good adhesion (Coanda effect) against the suspended ceiling at low driving pressure.

4-way air distribution with integrated comfort guarantee (ADC) for setting of the desired direction of the distributed air.

Variably adjustable air flow symmetrically on all four sides via a single adjustment point.

Enclosed design with integrated circulation air opening.

Air connection on the product's short or long side (optional) with the opportunity to move the connection.

Cleanable air duct.

The product is Eurovent certified (verified cooling capacity according to EN-15116).

Colour: White, RAL 9003, gloss ratio $30 \pm 6 \%$

Length (nominal): 1,200 mm Width (nominal): 600 mm

Height: 220 (Ø125), 250 (Ø160) 290 (Ø200) mm

Tolerances: $\pm 2 \text{ mm}$

Water connection: 600/1200: Plain pipe ends Cu Ø12 x 1.0 mm; Cu Ø12 x 1.0 mm

1800: Plain pipe ends cooling, Cu Ø15; heating, Cu Ø12 x 1.0 mm Option – 600/1200: Male thread DN 15 (applies to factory mounted

valves)

1800: Male thread cooling: DN 20, heating DN 15 (applies to factory

mounted valves)

Air connection: 600/1200: Sleeve Ø125, Ø160, 1800: Ø200 mm

Optional short side or long side

Product: REACT Parasol Zenith d aaaa-B-ccc-d X pcs.



CODE

VVS AMA PTD.4 0 Product with cooling & heating, continued

AMA-codes XXX TEXT		Page 2 QUANTITY
Options/accessorie	es es	
Factory-fitted:	Actuator, BELIMO VAV-Compact MOD	
	Volumetric flow regulator VAV-Compact, 5 Nm, AC/DC 24 V, BACnet MS/TP, Modbus RTU, MP-Bus, IP54	X pcs.
	Actuator, GRÜNER 327	
	Volumetric flow regulator VAV-Compact, 5 Nm, AC/DC 24 V, Modbus RTU, IP42	X pcs.
	Valve	X pcs.
	DN15 (1/2"), Normally-open, Kv value 0.89 (adjustable 0.1-0.89)	
	Thermal actuator, ACTUATORc On/off - 24 V AC/DC Normally closed	X pcs.
	Fold-out coil	X pcs.
	For easy access and cleaning of the complete coil when stringent demands are made on hygiene. Requires flexible pipe connections on the water side.	
Separate	SYST MS M8	X pcs.
	assembly fitting containing threaded rods, ceiling brackets and nuts to all four mounting brackets.	
	PARASOL Z QUICK SUSPENSION KIT	X pcs.
	Kit consisting of 2 fixed brackets to suspend REACT Parasol Zenith	
	SYST AD1	X pcs.
	Double nipple for the connection of the air duct to the product's air connection sleeve.	
	Dimensions: Ø125 and 160 mm	
	SYST CA	X pcs.
	90° duct bend for air connection. Nipple connections with seals. Dimensions: Ø125 and 160 mm CRPc 9	
	Commissioning damper with perforated damper blade. Air tightness class 0	
	Dimensions: Ø125 and 160 mm	
	SYST FH	X pcs.
	Flexible connection hoses (available in various colours)	
	SYST AR-12	X pcs.
	Nipple for venting the water circuit. Push-on connector adapted for installation with flexible connection hose type F20 and F30. Parasol c T-FPB	
	Parasol c T-FPB	
	Drywall ceiling frame to create a neat transition between the product and holes in drywall ceilings.	
	SYST CENTRING KIT PARASOL	X pcs.
	Kit consisting of 6 centring rails that can be used to centre the product in specific suspended ceiling systems.	



VVS AMA PTC.312 Product with cooling

AMA-codes, XXX PAGE 1
TEXT QUANTITY

P UNITS; PIPES ETC. IN PIPE SYSTEMS OR PIPE NETWORKS

PT ROOM MOUNTED HEATER AND COOLER

PTC ROOM CHILLERS

CODE

PTC.3 Chilled beams and convectors

PTC.31 Chilled beams

PTC.312 Duct connected chilled beams

XXXX

Make: Swegon

Type: REACT Parasol Zenith d - A

Comfort module with integrated, pressure-independent VAV control.

Waterborne cooling for integrated installation in suspended ceilings.

Double outlets for good adhesion (Coanda effect) against the suspended ceiling at low driving pressure.

4-way air distribution with integrated comfort guarantee (ADC) for setting of the desired direction of the distributed air.

Variably adjustable air flow symmetrically on all four sides via a single adjustment point

Enclosed design with integrated circulation air opening.

Air connection on the product's short or long side (optional) with the opportunity to move the connection.

Cleanable air duct.

The product is Eurovent certified (verified cooling capacity according to EN-15116).

Colour: White, RAL 9003, gloss ratio $30 \pm 6 \%$

Length (nominal): 600, 1200, 1800 mm

Width (nominal): 600 mm

Height: 220 (Ø125), 250 (Ø160) mm, 290 (Ø200)

Tolerances: ± 2 mm

Water connection: 600/1200: Plain pipe ends Cu Ø12 x 1.0 mm; Cu Ø12 x 1.0 mm

1800: Plain pipe ends cooling, Cu Ø15; heating, Cu Ø12 x 1.0 mm Option – 600/1200: Male thread DN 15 (applies to factory mounted

valves)

1800: Male thread cooling: DN 20, heating: DN 15 (applies to factory

mounted valves)

Air connection: 600/1200: Sleeve Ø125, Ø160, 1800: Ø200 mm

Optional short side or long side

Product: REACT Parasol Zenith d aaaa-A-bbb-c X pcs.



CODE

VVS AMA PTC.312 Product with cooling, continued

AMA-codes, XXX

TEXT	^	QUANTITY
Options/accesso	pries	
Factory-fitted:	Actuator, BELIMO VAV-Compact MOD	
	Volumetric flow regulator VAV-Compact, 5 Nm, AC/DC 24 V, BACnet MS/TP, Modbus RTU, MP-Bus, IP54	X pcs.
	Actuator, GRÜNER 327	
	Volumetric flow regulator VAV-Compact, 5 Nm, AC/DC 24 V, Modbus RTU, IP42	X pcs.
	Valve DN15 (1/2"), Normally open, Kv-value 0.89 (adjustable 0.1-0.89)	X pcs.
	Thermal actuator, ACTUATORc On/off – 24 V AC/DC Normally closed	X pcs.
	Fold-out coil	X pcs.
	For easy access and cleaning of the complete coil when stringent demands are made on hygiene. Requires flexible pipe connections on the water side.	
Separate:	SYST MS M8 assembly fitting containing threaded rods, ceiling brackets and nuts to all four mounting brackets.	X pcs.
	PARASOL Z QUICK SUSPENSION KIT Kit consisting of 2 fixed brackets to suspend REACT Parasol Zenith	X pcs.
	SYST AD1 Double nipple for the connection of the air duct to the product's air connection sleeve.	X pcs.
	Dimensions: Ø125 and 160 mm	
	SYST CA 90° duct bend for air connection.	X pcs.
	Nipple connections with seals. Dimensions: Ø125 and 160 mm	
	SYST FH Flexible connection hoses (available in various colours)	X pcs.
	SYST AR-12 Nipple for venting the water circuit.	X pcs.
	Push-on connector adapted for installation with flexible connection hose type F20 and F30.	
	Parasol c T-FPB Drywall ceiling frame to create a neat transition between the product and holes in drywall ceilings.	X pcs.
	SYST CENTRING KIT PARASOL Kit consisting of 6 centring rails that can be used to centre the product in specific suspended ceiling systems.	X pcs.



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