



# Swegon PARASOL™



Comfort modules that  
cool, heat and ventilate

*New Product!*

PARASOL EX  
for suspended mounting



**Swegon**<sup>®</sup>  
ENERGIZING INDOOR CLIMATE

# PARASOL offers the highest de

## Ground-breaking Comfort Modules

The PARASOL is a ground-breaking comfort module with ventilation, heating and cooling functions and with unique comfort features. The PARASOL can be utilized in most types of buildings regardless of type of activities conducted inside them and regardless of the season. The PARASOL offers 4-way air diffusion that is adjustable on each side. The air volume is also individually adjustable on each side. All in all, this provides an extremely versatile and flexible comfort module for an invigorating indoor climate offering the highest degree of comfort.

## Minimal Maintenance

The PARASOL comfort module creates the best possible indoor climate without the need for fans, filters or drainage. This provides minimal maintenance costs and the level of system-generated sound is low because the PARASOL manages the indoor climate entirely without moving parts.

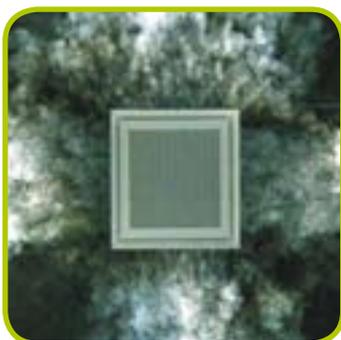
## Design and Function all in One

The PARASOL is available as single and double module units with several different perforation patterns to further blend in together with suspended ceilings, light fittings, etc. The PARASOL has a timeless design with straight and clean lines. The compactness of the modules also makes the task of installing them quicker, cheaper and more efficient. By utilising the heating function in the PARASOL instead of radiators, the hot and cold water pipework can be run to the same place. This simplifies the installation work and offers easier accessibility for possible maintenance. Cover panels are available for concealing control equipment, ductwork and piping of the PARASOL EX (suspended) comfort module.



## 4-way Adjustable Airflow

Here are some examples of the air distribution patterns that can be set with the PARASOL:



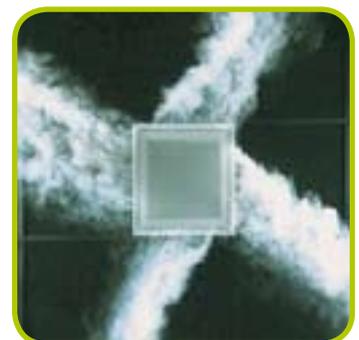
4-way air distribution



Circular air distribution

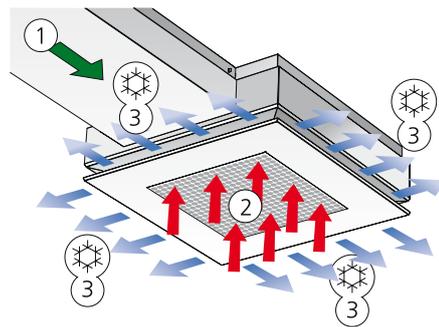


Irregular air distribution



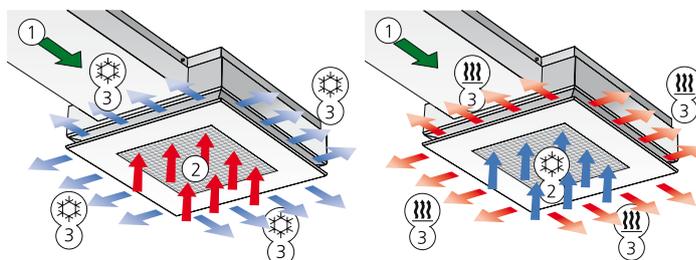
X air distribution

# gree of comfort all year round!



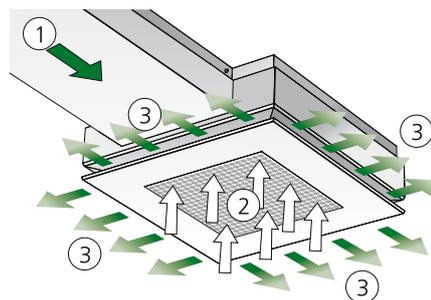
## PARASOL WITH COOLING AND SUPPLY AIR

Primary air (1) is supplied by the air handling unit. If cooling is required, the cooling circuit in the cooling coil is opened to cool the induced air from the room (2). The primary air and the induced air are mixed and are distributed to the premises (3).



## PARASOL WITH COOLING, HEATING AND SUPPLY AIR

Primary air (1) is supplied by the air handling unit. If cooling is required, the cooling circuit in the cooling coil is opened to cool the induced air from the room (2, left-hand image). If heating is required, the heating circuit in the heating coil is opened to heat the induced air from the room (2, right-hand image). The primary air and the induced air are mixed and are distributed to the premises (3).

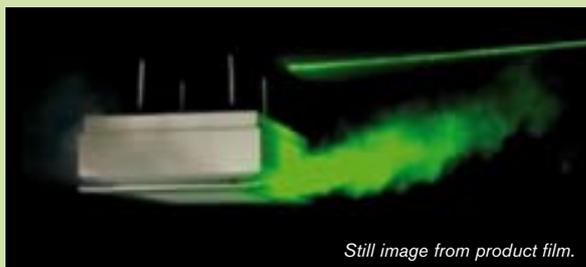


## PARASOL WITH SUPPLY AIR

Primary air (1) is supplied by the air handling unit. Induced room air is mixed with the primary air and is distributed to the premises (2+3).

### Special advantages of the PARASOL with supply air:

1. The pressure rise in the supply air module is the same as that in the other comfort modules. Therefore it is unnecessary to use a damper to throttle the duct pressure.
2. Low primary temperatures are easily managed without having to reheat the air. This can be required in a conventional system when the comfort modules are installed with grilles and diffusers
3. The built-in induction controls reduce the degree of induction to the same level as that of the other comfort modules. This makes it possible to control the throw and optimize comfort in the room.



Still image from product film.

PARASOL EX with upward airflow offers maximum comfort within the occupied zone and its cooling function is not dependent on the Coanda effect.

# Quick Facts

## Design

PARASOL - for flush mounting in a suspended ceiling.  
 PARASOL EX – suspended from hangers or mounted directly against the ceiling.

## Sizes

PARASOL – Single module unit - 600x600 mm, height: 230 mm.  
 Double module unit - 1200x600 mm, height: 230 mm.  
 PARASOL EX – Single module unit - 690x690 mm, height: 230 mm.  
 Double module unit - 1290x690 mm, height 230 mm.

## Function Alternatives

Cooling and supply air.  
 Cooling, heating and supply air.  
 Supply air only (for larger air volumes where cooling and heating are not required in all the comfort modules).

## Airflow Alternatives

Single module unit – Medium flow.  
 Double module unit – Low flow, Medium flow, High flow.

## Control System

LUNA – Complete room control system with valves, thermo-electrical actuators and digital room controllers.

## Accessories

Fitting parts  
 Mounting frame for plaster ceilings  
 Connection pieces for water and air.  
 Adjustment damper.  
 Cover panels for ductwork, pipes and control equipment.



PARASOL single and double module unit.

PARASOL EX single and double module unit.

LUNA Room control system

## Survey of the Capacity Ranges

Exact sizing can be carried out in the ProUnit air handling unit selection program. Visit Swegon's website under Software.

	Airflow, l/s <sup>1</sup>		Cooling capacity, W <sup>2</sup>		Heating capacity, W <sup>3</sup>	
	From	To	From	To	From	To
<b>PARASOL</b>						
600x600	7	34	350	960	600	1170
1200x600	6,5	27	460	1100	900	1940
1200x600	9	38	660	1280	1140	2170
1200x600	13	62	670	1620	1290	2330
<b>PARASOL EX</b>						
690x690	7	34	340	930	570	1110
1290x690	9	38	510	1190	1040	1970
1290x690	13	62	640	1530	1170	2120

<sup>1</sup>)For nozzle pressures from 50 to 150 Pa. <sup>2</sup>)For  $\Delta T_f=8K$  and  $\Delta T_{mk}=9K$ . <sup>3</sup>)For  $\Delta T_{mv}=30K$ .