

Office Solution

WATER



Complete package solution
for an invigorating
indoor climate in offices

Swegon

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Als het om lucht gaat.

**AUERHAAN**
KLIMAATTECHNIEK

Correct indoor climate all year round with minimal energy consumption

The most important economic figure for offices is the cost in relation to income from lettable floor area. The use of this area must be flexible, although the greatest comfort is the highest priority. Installations must take up as little space as possible.

Special Demands

Office premises usually have surplus heat from people, computer equipment, lighting, etc. There is a significant need to maintain an even temperature and a good indoor climate, irrespective of the season or outdoor temperature. Moreover, occupants often have a great need for individual variations at room level.

Rooms can be divided flexibly using modules, varying between single offices, double offices, open-plan offices and conference rooms.

Office Solution Water

Cooling and heating production with OMICRON and GOLD air handling system, together with the PARASOL comfort module and the intelligent CONDUCTOR and Super WISE control units, make up the package solution in Swegon Office Solution Water, optimum waterborne solution for a good indoor climate in offices.

The Swegon PACIFIC climate beam is used in conference rooms. Alternatively, the PRIMO perimeter climate system offers the same functionality.

Cooling and heating requirements in each room module are controlled with the aid of temperature sensors and presence detectors in the room. The CONDUCTOR room regulation equipment controls the comfort modules so that they supply cooled or heated air to the room as required. Each room module can be controlled separately for the maximum possible comfort.

OMICRON and the GOLD air handling unit ensure a constant temperature for the supply air, which is dehumidified and the supply and extract air ducts are constant pressure controlled. The airflow is continually optimised via Super WISE in order to save energy and therefore the environment. The water temperature for comfort modules is optimised and distributed demand controlled. Tap water production can be integrated.

OMICRON, GOLD and Super WISE can also supervise and control the entire Office Solution Water via the integrated web interface, via Swegon NESTOR or via an external supervisory system. Remote connection is possible with the help of Swegon Remote Access.



PARASOL is a comfort module for cooling, heating and ventilation via the CONDUCTOR control unit and actuators. Module dimensions 1200x600 or 600x600 mm.



The system includes three to five intelligent control units:

- **CONDUCTOR** controls all room functions.
- **All Year Comfort** optimises the temperature of chilled and hot water by controlling pipework and radiators.
- **Super WISE** optimises pressure regulation in all zones in the building. Super WISE communicates with CONDUCTOR and GOLD, as well as with external supervisory systems.
- **NESTOR** can be used as a common interface for the whole climate installation, with its own web server, central alarm and parameter management.
- **REMOTE ACCESS** can be used for remote connection for supervision and optimisation.

Swegon Bonus

Demand-controlled and flexible

- Air volume as well as cooling and heating energy as required
- Flexible division of office modules and open plan offices
- Adjustable air direction
- Individual room regulator if required

Low energy consumption

- Demand control with presence function (+/- 2 degrees when unoccupied) saves electricity, cooling and heating energy
- Approx. 80% heat recovery and cooling energy recovery
- Pressure and temperature optimisation via Super WISE and All Year Comfort
- High EER/COP for cooling and heating production

Built-in control equipment with communication

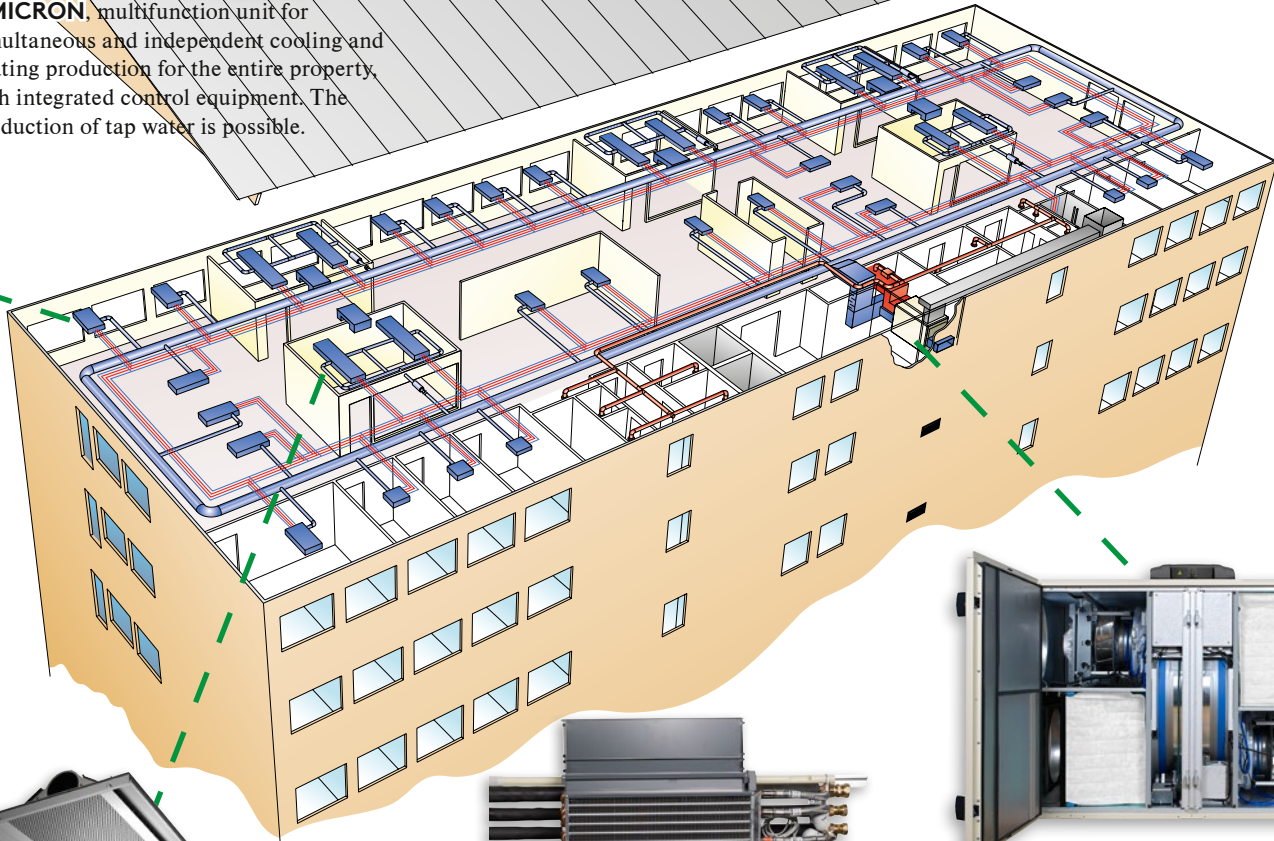
- Jointly developed control equipment for optimum functionality
- Supervision via web interface makes external supervision systems cheaper or superfluous.
- Possibility to log and optimisation of operations

Quiet, draught-free and simple maintenance

- No fan or motor in the room
- Optimum mixing without draughts
- Simple to clean
- Dry system without drainage
- Automatic maintenance functions in GOLD and OMICRON



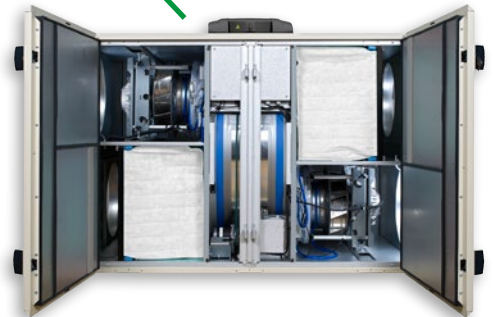
OMICRON, multifunction unit for simultaneous and independent cooling and heating production for the entire property, with integrated control equipment. The production of tap water is possible.



PACIFIC is a climate beam with a large cooling capacity that can be used e.g. in conference rooms.



PRIMO perimeter climate system is an alternative to comfort modules in non-standard building constructions or when there is limited space in the suspended ceiling.



GOLD is one of the most energy efficient air handling units on the market. The integrated control equipment has every function imaginable for air handling and is ready for communication with most existing supervisory systems.

This is how it works

A central multifunction unit, **OMICRON**, supplies the entire property with cold and hot water. One **GOLD** air handling unit per building structure (central ventilation) or per storey (decentralised ventilation) provides the system with supply air and extract air.

The supply air maintains a constant temperature. **GOLD** is equipped with an air cooler for cooling and dehumidification, as well as an air heater for reheating the supply air.

The air flow in the supply air and extract air ducts is pressure controlled: the air flow and pressure are constantly optimised at the lowest possible level by the Super WISE control unit. The All Year Comfort control unit optimises the temperature and floor on the secondary cooling and heating liquid circuits.

Demand-controlled room regulation takes place via the **CONDUCTOR** room control unit that is installed in each **PARASOL**.

Airflow control can also take place in three stages (vacancy flow, occupancy flow, boost flow) via damper control in the supply air duct.

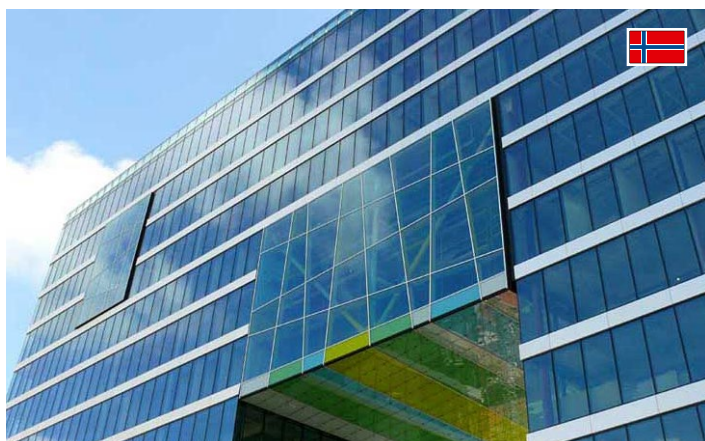
The extract air is evacuated centrally via the air transfer grille. Supply and extract air are kept in balance via **WISE** zone dampers.

Room temperature and airflow can be controlled via:

- Room thermostat
- Presence detector
- CO₂- control (conference rooms)
- Timer
- Supervisory system (BMS)
- Manual unit in the room

Swegon also offers suitable air diffusers as well as grilles, dampers and sound attenuators.

Offices with indoor climate from Swegon



PWC, Oslo



The Ministry of Finance, Vienna



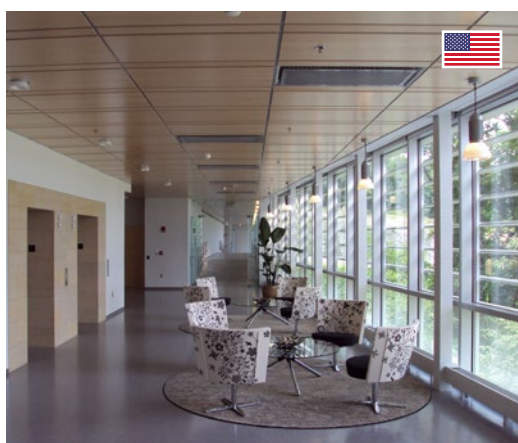
Siege de Etde, Saint Herblain



PAF, Åland



Green Hall, Vilnius



Astra Zeneca, Boston

- München Bryggeriet, Stockholm, Sweden
- Russian Railways, Yekaterinburg, Russia
- Tour Elithis, Dijon, France
- Crédit Agricole, Rennes, France
- Natura Towers; Lisbon, Portugal
- Versatel offices, Flensburg, Germany
- AOK Insurances, Wiesbaden, Germany
- Swedish Companies Registration Office, Sundsvall, Sweden
- Procter & Gamble HUB, Geneva, Switzerland
- Lukoil Offices, Perm, Russia
- Kungsbron, Stockholm, Sweden
- and many more