NESTOR

The brain of the complete climate management system

Swegon

NESTOR controls the whole indoor climate!

Buildings today are more and more complex with many sub-systems and advanced optimisation functionality.

In order to have a full overview, building owners or facility management increasingly need to have remote access to their buildings.

NESTOR is the new groundbreaking access point to the complete Swegon climate management system.

NESTOR connects all intelligent Swegon products in the building to one single point.

NESTOR uses the full intelligence of all connected products, creates common alarm lists, performs heating and cooling priority and helps to continuously optimise heating and cooling temperatures for up to 8 sub-systems in the building.

NESTOR can also be used for a virtual internal network between up to eight buildings to centrally control ventilation and indoor climate.

Highest Comfort and energy efficiency

The optimisation functions in the connected products guarantees the highest energy efficiency. Examples of optimisation functions are those in GOLD for air production and Smart Link functionality for heating and cooling production. Further functions include All Year Comfort (AYC)* for demand controlled waterborne heating, cooling and distribution and SuperWISE for airborne heating, cooling and air distribution. This guarantees the highest comfort and energy efficiency.

Heating and cooling production distribution are demand controlled both by flow and temperature. Cooling will always be done as warm as possible and heating as cold as possible. This also leads to a system with more open valves and lower pressure drops, which saves energy and money.

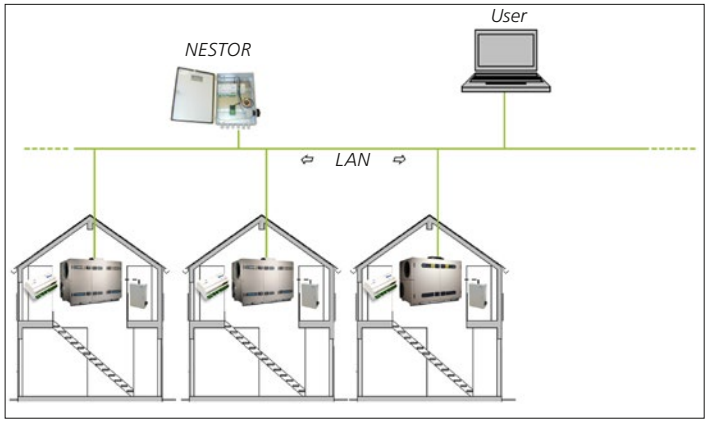
Easy to design and install

The Swegon Climate Management system is extremely easy to design and install due to its logical hierarchical network with node ID's for all levels. The room and zone network is connected to SuperWISE where it is easily mapped up. All SuperWISE and GOLD have their own web pages that automatically become sub-web pages in NESTOR by assigning IP addresses. Each All Year Comfort (AYC)* regulator is connected to it's own GOLD. NESTOR communicates through the SMART Link functionality with a Swegon chiller or a heat pump and creates a web page for them.

In this way handling of the whole climate system becomes extremely time and cost efficient.

Accessories

- **SD-card** (Can be used to store project specific information)



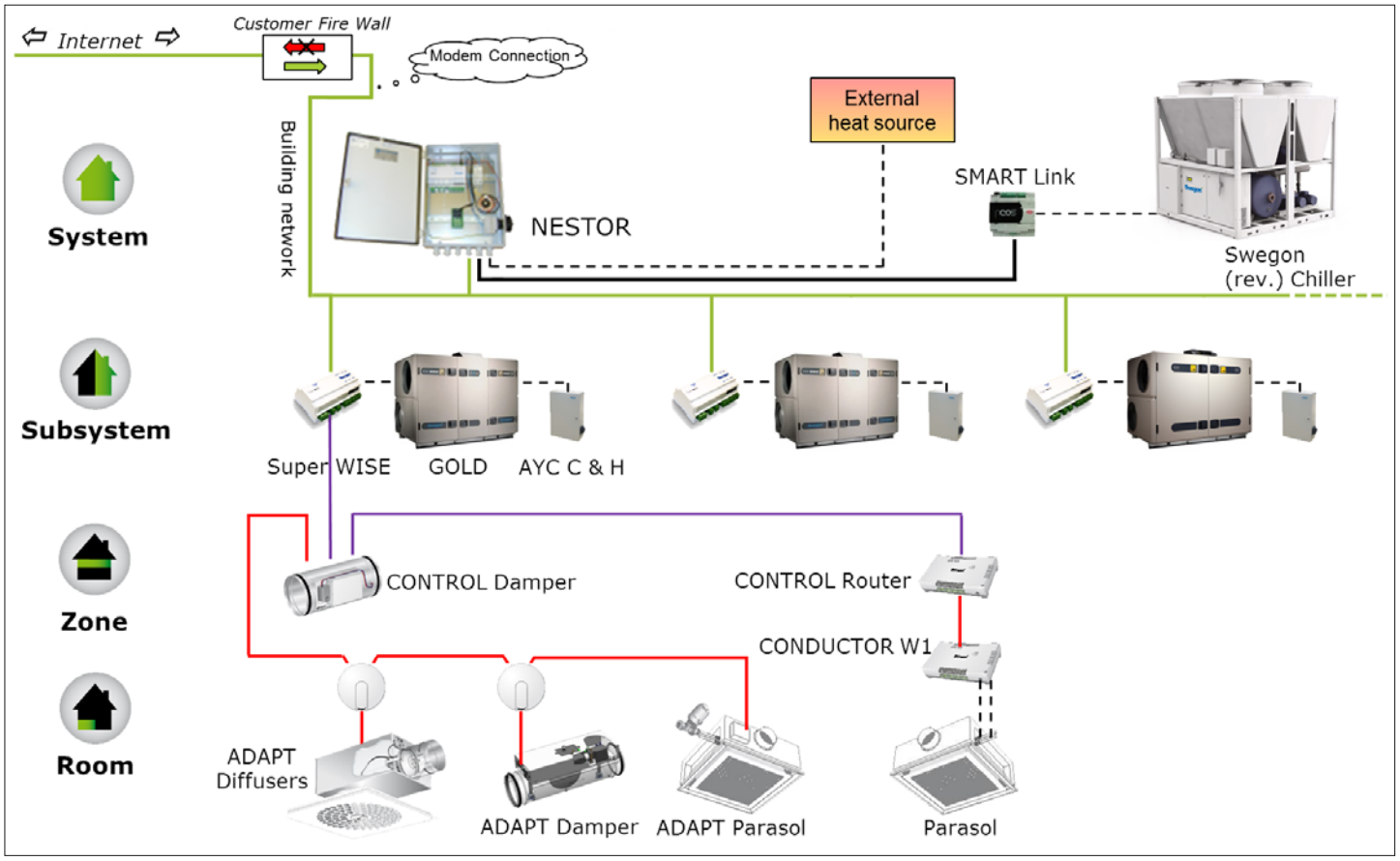
A building owner with a virtual internal network between multiple buildings can use NESTOR to connect up to 8 buildings to the same NESTOR. In this case, GOLD and All Year Comfort (AYC)* control cooling and heating production locally.

**) The All Year Comfort function is designed to regulate the secondary water circuit for cooling and/or heating with climate beams, perimeter climate systems, radiators etc.*

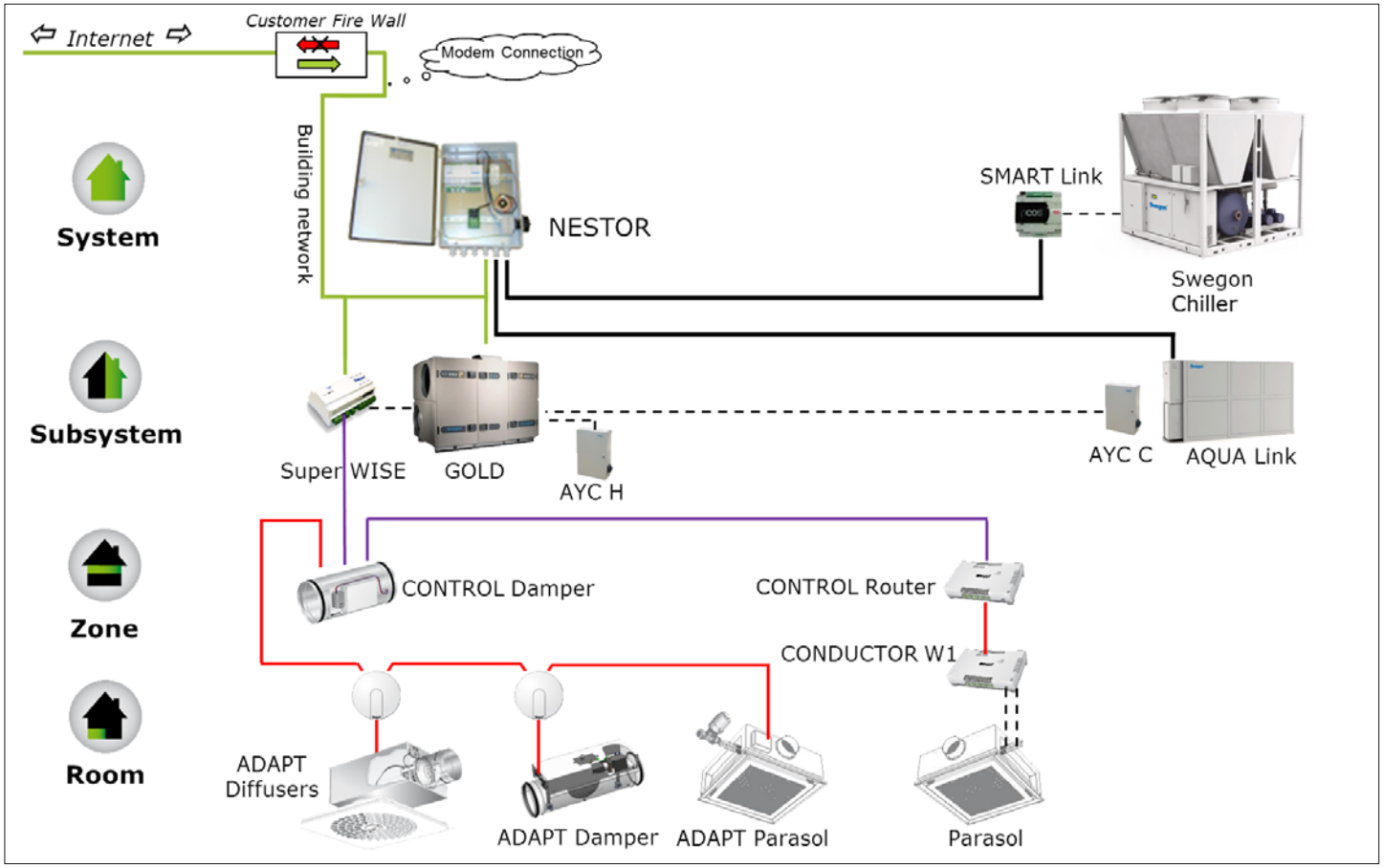
The major benefits

- Single point of access to all climate products by Swegon
- Simplicity and clarity
- Easy, fast design and installation
- Cost effective
- Common alarm handling

Examples of different system possibilities



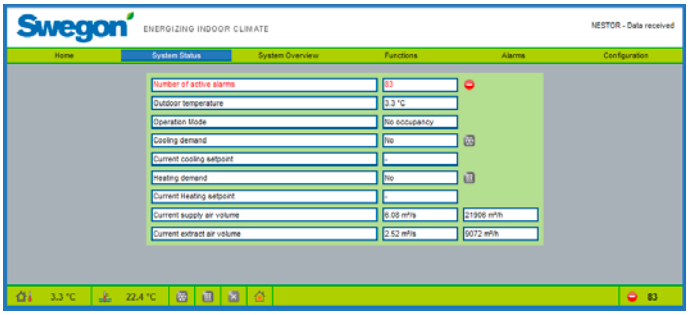
A system with a Chiller and an external heat source can be supplied with heating and cooling simultaneously. Start and stop signals to external heat source are given by NESTOR through a dry contact.



A system with AQUA Link can only contain one GOLD and one Chiller. All Year Comfort (AYC) for cooling is associated with AQUA Link. AYC for heating is separate. AYC always communicates directly with GOLD.*

Technical data and selection help

NESTOR uses the integrated web pages for the GOLD and SuperWISE units as sub-pages. NESTOR also creates a web-interface for the chiller. The NESTOR web-server creates new common pages for overviews, setpoint values, time channels and alarms. The whole system can easily be accessed through this logical hierarchical structure.



Example of NESTOR System Status web page.

Products that can be directly or indirectly connected to NESTOR:

- Up to 8 GOLD units can be connected
- Up to 8 SuperWISE units can be connected (max. 3200 room products)
- One AQUA Link can be connected (with one AYC)*
- Chiller/Heat pump/Reversible chiller
- SMART Link
- All Year Comfort (AYC)*
- CONTROL Damper
- CONTROL Router
- ADAPT Damper
- ADAPT Colibri / Sphere/Free
- ADAPT Parasol
- CONDUCTOR W1 / W3 / W4
- Signals to external heating and cooling source

**) The All Year Comfort function is designed to regulate the secondary water circuit for cooling and/or heating with climate beams, perimeter climate systems, radiators etc.*

Technical data

Supply voltage	230 V AC, max. 10 A
CE-approved to	EN 61000-6-2, EN 61000-6-3
Enclosure	class IP 65
Ambient temperature at relative humidity	-20 to 40 °C 10–95 %
Dimensions (W x H x D)	300 x 400 x 120 mm
Weight	8000 g

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