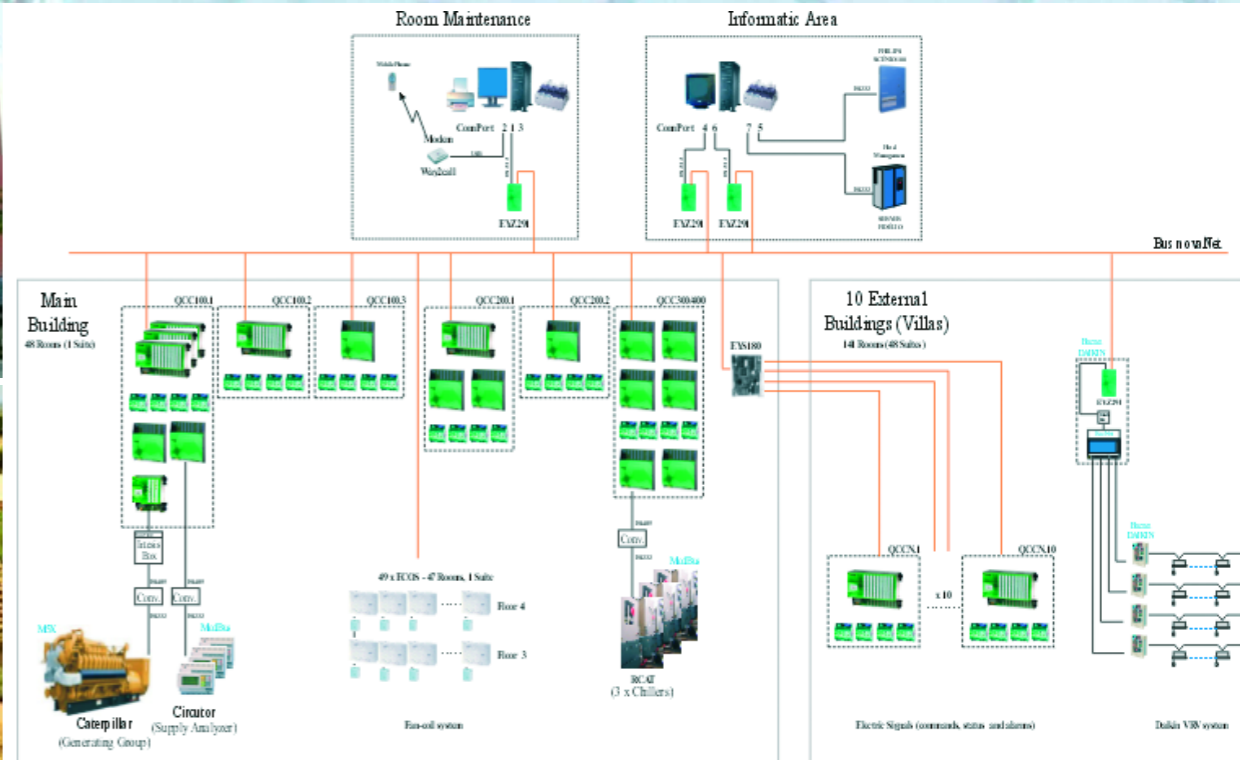


Sauter creates a five-star holiday climate at the Hotel Vila-Sol on Portugal's Algarve coast.

The Algarve in the south of Portugal is one of the country's most-developed tourist regions. Many top luxury hotels are located here, including the Hotel Vila-Sol, which is recognised as one of the most up-to-date in the region. The hotel is also an exceptional example of successful market development by one of our younger subsidiaries, Sauter Ibérica SA (Portugal).



A Sauter EY3600 building management system controls and regulates all eleven buildings in the hotel complex. The main building houses reception and administration areas, a restaurant and bar, four conference rooms, and 47 guest rooms plus a 'presidential suite'. The air-conditioning system uses a four-pipe circulating water system.

141 more rooms, including 48 suites, are distributed among ten other buildings grouped around a 27-hole golf course. A Daikin VRV (variable refrigerant volume) system runs the air-conditioning in these buildings.

Communications network topology with novaNet

The way the buildings are distributed around the site clearly necessitates careful design of the novaNet topology.

Sauter Ibérica used a star-shaped network topology to implement the system with its approximately 2500 data points. It incorporates two computers running novaPro32 software and 82 DDC stations with novaLink modules in a total of 16 motor control centres located around the various buildings.

In addition, a voice alarm system (w-messages) was installed in order to facilitate system support and maintenance via mobile phones.

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Versatile integration of third-party systems

For Sauter Ibérica, an unusual aspect of the Hotel Vila-Sol project was the need to integrate a whole series of third-party systems. These included:-

- A Philips Scenio 100 lighting system
- A Fidelio hotel management system
- A Caterpillar electrical generator unit
- RCAT cooling plant
- Circutor energy meters
- A Daikin VRV system (BACnet)

Integrated subsystems and components:-

- 10 UTA air-handling units with free cooling
- 87 ventilator-convectors
- 35 exhaust-/supply-air ventilators
- 3 RCAT 530 kW cooling plants
- 2 gas heating units with associated primary pumps
- 12 distributor pumps for hot/cold water, with variable flow rates
- Circulation pumps for the hot water supply
- Compressed-air systems
- Signalling installation for motor control centres
- RCF fire/smoke vent control
- Lifts
- Low-voltage electricity and telephone network
- Pumps and temperature regulators for swimming pools
- Lighting
- Control and monitoring of the Daikin VRV air-conditioning system in satellite buildings
- Weather station (temperature, humidity, air pressure, wind direction and speed, sunshine)



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