

Hospital Build 2011: Siemens Innovations for Efficient Hospitals

At Hospital Build 2011 in Nuremberg, Siemens presented its concepts and innovations for safe, efficient, and environmentally friendly hospital operations under the motto “Increasesafety, maximise efficiency.”

In modern laboratories, safety and energy efficiency are number one priorities. When handling hazardous substances, it is not only necessary to avoid room air contamination or the formation of explosive concentrations, but also to optimise energy consumption. The Siemens Building Technologies Division meets these two requirements with its new laboratory solution which combines the Desigo building automation system and other disciplines with innovative control mechanisms for directed air flow and extraction in fume hoods.

This integrated approach results in a complete single-source solution that provides automation and control of Heating, Ventilation and Air Conditioning systems, lighting, video surveillance and access control, as well as fire safety and power distribution systems. The autonomous fume hood controllers communicate via standardised LON interfaces with the room controllers, which determine the required supply and exhaust air volumes in the room in quasi real time and rapidly adjust them if needed.

The Siemens laboratory solution can be used for fume hoods of any type and from any manufacturer and was successfully certified according to SN EN 14175, Part 6.

Green+ Hospitals for sustainability in hospitals

In today's healthcare climate, hospitals are faced with numerous challenges. Doctors and hospitals are expected to continuously improve the medical care of patients while also lowering costs and reducing their impact on the environment. To help the healthcare sector meet these challenges, Siemens has developed the Green+ Hospitals programme. The “plus” in the name symbolises that sustainability in the healthcare industry goes beyond environmental protection. It has far more to do with increasing the efficiency of workflows, improving the economic sustainability of hospitals and medical offices, and optimising the quality of medical care—without ignoring environmental aspects.

The Green+ Hospitals programme combines all Siemens solutions that help hospitals meet these criteria. Hospitals benefit from the Green+ Hospitals programme by optimising their workflows and streamlining processes for improved efficiency. Innovative medical systems and high-tech building infrastructures help reduce costs and improve medical care. Patients, in turn, benefit from shorter wait times as well as new diagnostic and treatment methods that place less strain on the body and increase the quality of care.

As part of its Green+ Hospitals programme, Siemens also provides consulting services to its customers in the areas of building automation, energy management, instrumentation and control, as well as IT and communications infrastructure.

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