

*Protecting The Healthcare Information Infrastructure*  
*Liebert Power And Cooling Solutions For Hospital, Laboratory And Biotech IT*



# More Rewards, More Risk

*The information infrastructure of healthcare is changing dramatically, with information technology impacting every aspect of your operations.*



*Liebert Solutions For The Unique Needs Of The Healthcare Industry:*

Hospitals, clinics, specialty providers, long-term care facilities, research laboratories and other healthcare operations are all taking advantage of innovations in the tools used for medical treatment and the handling of patient information.

From digital diagnostic equipment to computerized patient records and order entry, every aspect of the healthcare market is seeing huge gains in accuracy and efficiency thanks to new electronic technologies.

This investment brings a new set of concerns, however, as increased dependence on IT and digital equipment requires an increased need to assure the continuous operation of these systems. A sudden, unplanned shutdown of any of these electronic tools can leave you in the dark — and your patients' treatment in jeopardy.

## **In The Practice of Healthcare**

Sensitive digital equipment used in diagnostic, treatment, surgical and pathological applications is subject to the same threats faced by IT systems. While the critical nature of these medical electronics may vary, the risk of improper diagnoses, incomplete procedures, compromised testing or lost patient information is present in all these cases. To be effective, practitioners must have the confidence that their medical electronics will work properly every time. There is simply no room for error when identifying patient conditions or performing other tests.

**Protecting Electronic And Digital Medical Systems** — sensitive diagnostic and treatment equipment that is essential to proper patient care.

- Liebert protection solutions range from precision air conditioning for laser-based treatment to specialized fluid chillers for cooling medical imaging equipment such as CT, MRI and PET installations, to uninterruptible power supply (UPS) systems for laboratory analysis equipment including electron microscopes and gas chromatographs.

## **In The Business of Healthcare**

The integration of IT throughout healthcare organizations is growing rapidly. The primary drivers behind this implementation are improved patient safety and vastly increased requirements for the storage, retrieval and security of important patient data. This shift to computer-based records requires data warehousing and other large-scale network and computer systems. At the core of these systems are large data centers and extensive network infrastructures.

**Protecting Infrastructure Technologies** — the network, communications and basic information transfer and sharing elements of your computer systems.

- Liebert solutions include UPS systems, power conditioning, precision cooling, and support system monitoring to protect both centralized servers and individual workstations.

*Offering the right mix of power, cooling and services to protect critical equipment and processes is the first step. Knowing how to apply them in the best possible manner for each situation is the all-important second step.*



**Safeguarding Patient Information** — the creation, transfer and storage of sensitive medical documentation.

- Large data centers and data warehousing operations have a need for facility-wide protection such as Liebert UPS systems, power conditioning, precision cooling, and support system monitoring.

**Maximizing Availability Of Websites/Intranets/Web Applications** — web-based access to information by a broad cross-section of users expands.

- Liebert solutions from Emerson Network Power can protect web servers and related communications systems using UPS systems, power distribution and conditioning, precision cooling designed for high density electronic applications, plus support system monitoring.

### **In Biotech Applications**

From agriculture to pharmaceuticals to zoology, biotechnology is providing products and processes that are revolutionizing the way we live. The cornerstone behind this industry is the time and resources that you are dedicating to the research and testing that will yield even more extraordinary results. But so much of your work depends on accuracy in the discovery, testing and review processes. Many of these procedures depend on the continuous, accurate delivery of electrical power — and maintaining precise, consistent environmental conditions for computers and test equipment within these research and production facilities.

**Protecting Critical Electronics In Biotech Applications** — research protocols have distinct needs for assuring the proper operation of high-performance computer systems, laboratory instruments and other sensitive electronics.

- From delivering proper power to a single piece of digital test equipment to assuring a controlled environment for an entire research facility with a precision cooling system, there is a Liebert solution to fit the needs of your processes.

### *Application Expertise And Real-World Experience:*

#### *Talk To Us First*

Emerson Network Power has been working with hospitals and other healthcare providers for many years. We understand the highly critical and secure nature of the information and processes that we help to protect in these facilities. As digital and information technologies move into literally every aspect of patient care and medical research, we recognize the challenges you face in safeguarding the operation of these systems. Our experience enables us to properly respond to any power or environmental problem scenario with an outstanding staff of research, design, application and service engineers using the latest technological tools.

# Ensuring The High Availability Of Mission-Critical Data And Applications.

As you plan for the deployment of a new generation of digital equipment and information systems in your operations, you must also determine the best way to protect your investment in this technology. No company in the electronic systems protection business has more experience than Emerson Network Power.

Today's healthcare facilities are undergoing an unprecedented amount of change as digitalization expands to all aspects of healthcare operations. Your healthcare facility depends on IT to diagnose, treat and care for patients. Liebert power, cooling and monitoring solutions help ensure critical patient data and sensitive medical equipment is available when your doctors and patients need them most.

<b>Uninterruptible Power Supply Systems</b>	Single and three-phase systems ranging from 300 VA to over 4000 kVA.
<b>Precision Air Conditioning</b>	In capacities from 1 to 65 tons.
<b>Facility-Wide Surge Suppression</b>	Power, data, telecommunications and controls protection.
<b>Monitoring</b>	Monitoring, control and energy management solutions for power and environmental systems.
<b>DC Power Systems</b>	For communications and telecom applications.
<b>Racks and Cabinets</b>	Robust, easy to deploy specialized enclosures for sensitive electronic equipment.
<b>Service</b>	Solutions that are designed to maintain and consistently enhance the performance and energy efficiency of your support equipment.

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