

# Power and Cooling in Healthcare

■ Power and Cooling for  
*Business-Critical Continuity™*

## How to Improve Patient Care, Ensure Productivity and Protect Your IT Investment

Solutions such as Electronic Medical Records (EMRs), Picture Archiving Communication Systems (PACS) and wireless networks are placing new demands on healthcare IT for data availability, network reliability and equipment protection.

In almost all cases, these demands require new power and cooling strategies – because without them, you face:

- Lost revenue and productivity caused by server or network downtime
- Staff dissatisfaction and reluctance to adopt new technologies due to system outages
- IT equipment damage from power fluctuations or insufficient heat removal
- Future budget expenses to address today's overlooked or under planned power requirements

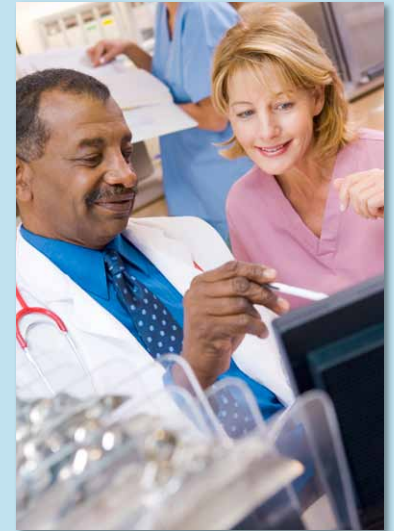
### Knowing Your Risks Is the First Step. Choosing the Right Solution Is the Next.

More than 5800 healthcare providers rely on Liebert® power and cooling solutions from Emerson Network Power. We take great care in understanding healthcare provider needs and providing energy-efficient solutions that not only address current situations, but also offer room to grow.

Liebert is the leading name in data center power and cooling, with a local sales and support team that is unmatched in the industry. Which means that whatever you need – power and cooling solutions for nurse stations, network closets or data centers – we can help.

## IT Is Everywhere

The latest medical technologies depend on the performance and availability of the network.



### Efficiency Without Compromise™

With the right power and cooling strategy, you not only ensure optimal availability, you can reduce costs.

- Switching from multiple UPS units to a centralized UPS can save up to 24 percent in equipment costs. Additional savings are realized through reduced maintenance expenses and longer battery life.
- Adding supplemental cooling in your data center to target rack row hot spots can cut cooling system energy usage by 27 to 32 percent.
- Replacing line-interactive UPS units with on-line UPS units improves reliability and reduces maintenance and battery replacements costs by 43 percent over three years.

## Where Should You Begin to Assess Your Power and Cooling Situation? Start By Asking:

Are you...	Consider...
Uncertain about the condition of your power and cooling infrastructure or experiencing unexplained equipment downtime?	<b>A walkthrough by a Liebert power and cooling expert.</b> Or, a formal <b>Liebert Data Center Audit.</b> You'll then be able to determine the right course of action based on power and cooling best practices and expertise.
Installing new medical technologies, such as PACS, RFIDs or EMRs?	<b>A Liebert UPS and/or Liebert cooling solution</b> to protect the high density servers and storage equipment that will be added to support the new healthcare IT application.
Managing multiple UPSs in your data center or throughout the facility?  Or are you planning to add multiple UPSs?	<b>A room UPS</b> , such as Liebert NX™, to save money and reduce management. For example, the Liebert NX 30kVA costs approximately 24 percent less when compared to adding six Liebert GXT3™ 6kVA UPSs. Long-term cost savings can also be realized from longer battery life and less maintenance.
Experiencing frequent power outages affecting network availability or causing equipment, such as PACS workstations, to reboot?	<b>An on-line UPS</b> , such as Liebert GXT3 or Liebert NX, offers higher reliability and longer backup capabilities to prevent lost data or images.
Trying to resolve excessive heat in network closets due to equipment additions?	<b>Liebert MCR™ or Liebert XDF™ System.</b> These standalone cooling enclosures provide appropriate cooling and optional power management for smaller spaces or rooms not designed for IT equipment.
Dealing with power interruptions from line-interactive UPSs dropping the load when the hospital switches to generator power?	<b>An on-line UPS</b> , such as Liebert GXT3, never has transfer interruptions and can provide a much higher level of power quality.
Having difficulty managing and monitoring large network installations?	<b>Liebert Monitoring Solutions</b> , such as Nform™ and SiteScan®, to centralize monitoring of batteries, UPSs and cooling equipment.

## Talk to a Liebert Solutions Provider Today About IT System Availability, Protection and Energy Savings.

Our solutions are eligible under the American Recovery and Reinvestment Act for healthcare programs.

### Emerson Network Power.

The global leader in enabling *Business-Critical Continuity™*.

- **AC Power**
- **Connectivity**
- **DC Power**
- **Embedded Computing**
- **Embedded Power**
- **Infrastructure Management & Monitoring**
- **Outside Plant**
- **Power Switching & Controls**
- **Precision Cooling**
- **Racks & Integrated Cabinets**
- **Services**
- **Surge Protection**

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Materials sold hereunder cannot be used in the patient vicinity (i.e., cannot be used where UL 60601-1, cUL 60601-1 or IEC 60601-1 is required). Medical applications such as invasive procedures and electrical life support equipment are subject to additional terms and conditions.

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**Emerson Network Power**  
Liebert Corporation  
World Headquarters  
1050 Dearborn Drive  
P.O. Box 29186  
Columbus, Ohio 43229  
800 877 9222 Phone (U.S. & Canada Only)  
614 841 6022 FAX