



# Liebert®

Liqui-tect®

Leak Detection and Reporting

Comprehensive Detection of Water Based Leaks in Critical Spaces



## Water Damage Can Be a Catastrophic Event for Computers and Networks

Your critical computing, communications or process control facility could be exposed to water — and you may not even know about it until it's too late. Water damage puts your facility at risk.

The Liebert® Liqui-tect® solution is the one source that can help you avoid water damage with a complete solution that includes monitoring system, sensors, cables and software.

When a conductive liquid comes in contact with the leak detection cable, the system is able to report the distance to the leak and jointly works with the Interactive map that indicates the location of the leak.

## Liebert Liqui-tect Monitoring System

Liebert brings you the ultimate in leak detection and reporting capabilities. The Liebert Liqui-tect Monitoring System provides monitoring different areas with direct-read at the control unit location, as well as the ability to communicate with Liebert's SiteScan® Web, Nform™, and Trellis™ Site Manager monitoring system or a building management system.

The system determines the location of water on the detection cable and reports the distance from the Liqui-tect Monitoring System, in feet or meters. Within seconds of detection, the

measurement is flashed on the display panel, allowing you to take prompt action to correct the leak and prevent damage. To ensure proper protection, the system continuously monitors operation, signaling system normal, leak detected and cable fault.

### Leaking Roof

Can allow substantial amounts of water to enter the shelter over time.

### Flooding

Water from the outside could flood the inside of the structure.

### Humidifier

Drip pans for humidifier or air conditioning units can overflow if not regularly checked.

### Room Located Below Grade

Areas located below ground level are subject to water seepage from outside as well as leaks from the floor above.

### Unattended Facility

Remote communications shelters require monitoring to protect against damaging water leaks.

### Flat Roof Water Penetration

Standing water can make its way into the critical space, causing water damage.

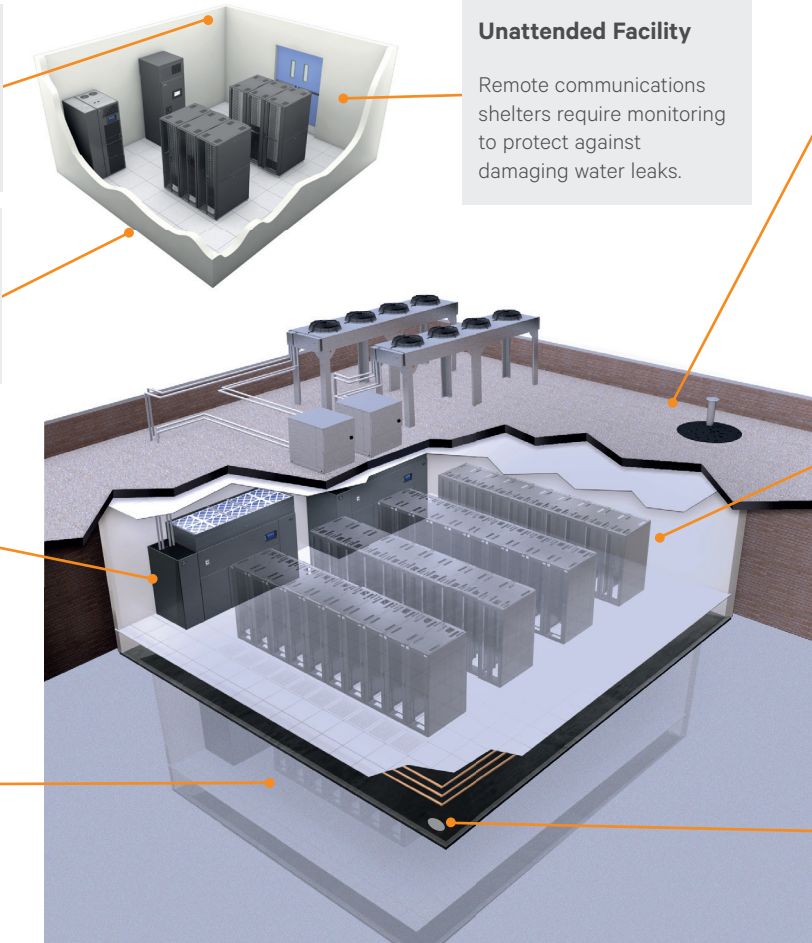
### Plumbing

Any water piping located near critical equipment poses a risk if leaks develop.

- Sprinkler Systems
- Waste Systems
- Condensate Piping
- Chilled Water Piping
- Condenser Water Piping

### Clogged Drain

Drainage systems designed to remove water can become a serious liability if blocked or otherwise closed.



## Liebert® Liqui-tec® LP3000 and LP6000 - Your Best Solution for Leak Detection

Liebert leak detection systems deliver quick and accurate notification at the first sign of trouble. They also offer the ability to interface with your monitoring and building management systems to provide the broadest possible range of communication.

Liebert Liqui-tec leak detection systems provide accurate reporting of leaks below the floor, above the ceiling or at the perimeter of a room in critical facilities. These reliable systems provide immediate warning and precise location, allowing you to find and correct a leak before moisture can damage computers, wiring connections or other sensitive electronics.

Both solutions can:

- Configure up to 32 virtual zones
- Send direct email alarm notification
- Access the device remotely via the robust web interface
- Log an extensive variety of events and alarms



Liebert Liqui-Tec LP3000

### Liebert Liqui-Tec LP3000

The Liqui-tec LP3000 is a complete monitoring system that monitors and notifies the presence of water and other conductive fluids. The LP3000 is an advanced controller that operates in conjunction with Liqui-tec leak detection cable. With the LP3000, the user can establish "virtual zones" allowing the leak detection cable to be segmented by user defined areas.

With the Liebert Liqui-tec LP3000 you can:

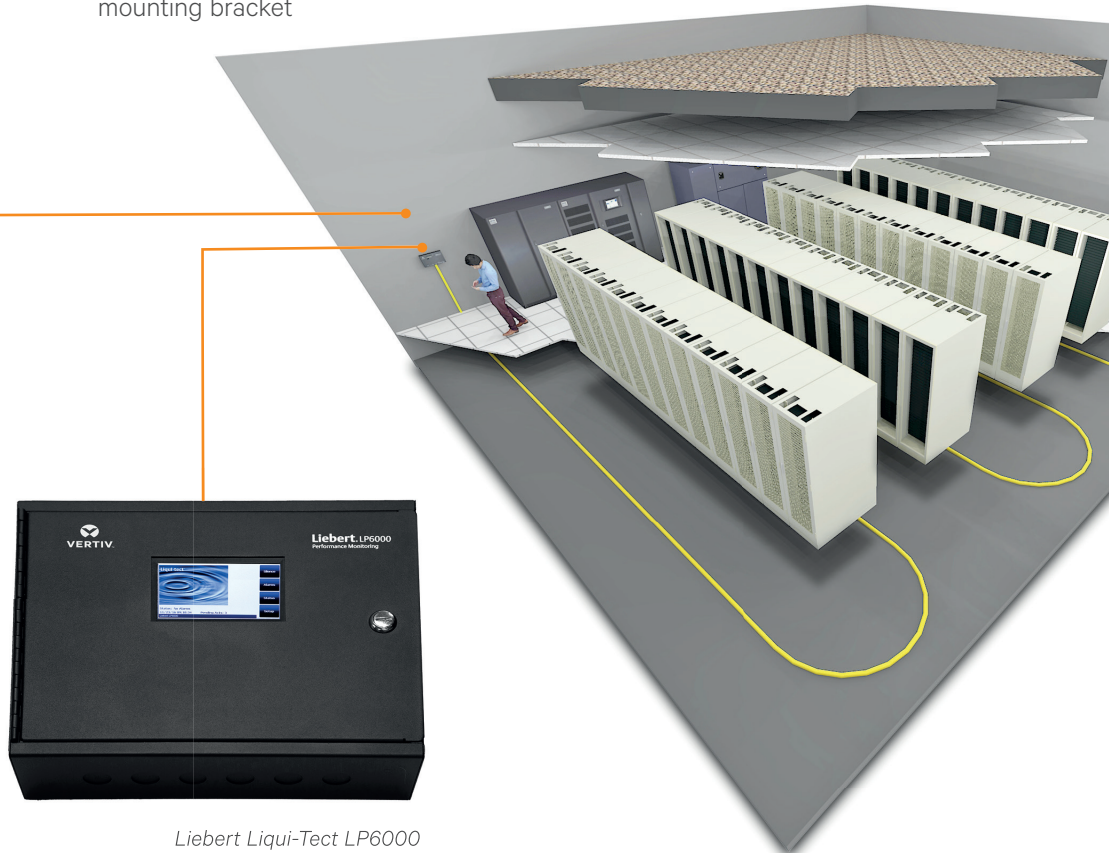
- Monitor up to 5,000 feet of conductive fluid sensing cable
- A single interactive leak detection reference map
- Open protocol support for remote monitoring
- Compact device allows for mounting under a raised floor, wall mount or rack mounted with optional rack mounting bracket

### Liebert Liqui-Tec® LP6000

The LP6000 monitors leaks the same way as the LP3000 and has a LCD touch screen that allows the user to configure, monitor, locate, and acknowledge leaks from the front panel. The LP6000 comes with an easy to read interface that helps users quickly and efficiently respond to leaks to protect valuable assets.

With the Liebert Liqui-tec LP6000 you can:

- Monitor up to 10,000 feet of conductive fluid sensing cable
- Create up to 10 interactive leak detection reference maps
- Single compact package that contains a touch screen LCD display
- Ability to centrally monitor multiple LP3000 controllers.



Liebert Liqui-Tec LP6000

## Outstanding Features And Monitoring Versatility

### Leading Point and Zone Leak Detection Systems

Liebert Liqui-tect zone and point leak detection systems install quickly and work simply for reliable warning of potentially hazardous water leaks.

#### Liebert Liqui-tect 410 point sensor

offers leak detection at critical points under a raised floor. Two corrosion-resistant gold-plated probes detect moisture and immediately signal the monitoring system, allowing fast action to be taken before mission-critical equipment is damaged.

#### Liebert Liqui-tect 410 Point Leak Detection Configuration

Typical installation of a Liebert Liqui-tect 410 leak detection system used to monitor the condensate pan a Liebert DS precision air conditioning unit.



#### Liebert Liqui-tect 460 zone sensor

provides zone detection of leaks up to 100 feet. Designed for use with Liebert LT500Y leak detection cable, the Liqui-tect 460 is the ideal solution for perimeter sensing or serpentine coverage of small areas. Selectable modes of operation provide flexible alarming options and protection for the cable. Selectable alarm delays minimize false-positive conditions.

#### Liebert Liqui-tect 460 Zone Leak Detection Configuration

The Liebert Liqui-tect 460 uses flexible cable for zone monitoring. Here the system is shown connected directly to a Liebert DS precision air conditioning unit. Cable should be placed 2 to 6 feet away from the equipment being monitored.



Liebert Leak Detection Systems can be configured to match the protection needs of any site.

## FEATURES

### Standard Dry-Contact Output

- Sensors are easily monitored by numerous monitoring systems and equipment such as Liebert environmental equipment via local alarm contact. Also compatible with Liebert's SiteScan Web enterprise monitoring system and third party equipment.

### Dual Output Relays

- Two independent outputs provide added flexibility to signal a local alarm panel, a remote building management system or external equipment such as a water shut-off valve.

### Supervised Operation

- Sensors constantly monitor for leaks, internal fault and power failure, warning of any abnormal conditions.

### Easy Installation

- Separate power and signal wires simplify circuitry needs. Mounting brackets allow for sensor height adjustment and leveling (Liqui-tect 410). Convenient kits are available pre-packaged with sensor, cable and hold down clips (Liqui-tect 460).



## Liebert® LT500Y Leak Detection Cable

**The Liebert LT500Y Lead Detection Cable** offers durable design for accurate sensing and the ability to read and report the exact position of the leak. Liebert leak detection cables have a multi-wire design for precise identification of moisture and signaling. Rugged durable materials resist corrosion and abrasion for long cable life. The cable's non-kink design makes it easy to position around equipment. After a leak is corrected, the cable sheds liquid quickly for an easy return to normal conditions.

Liebert LT500Y leak detection cable is designed for easy installation and unlike other leak detection cables does not exhibit memory. This means that the installation goes in easier and does not require additional attention to how flat the cable is laying on the floor.

## Leak Detection

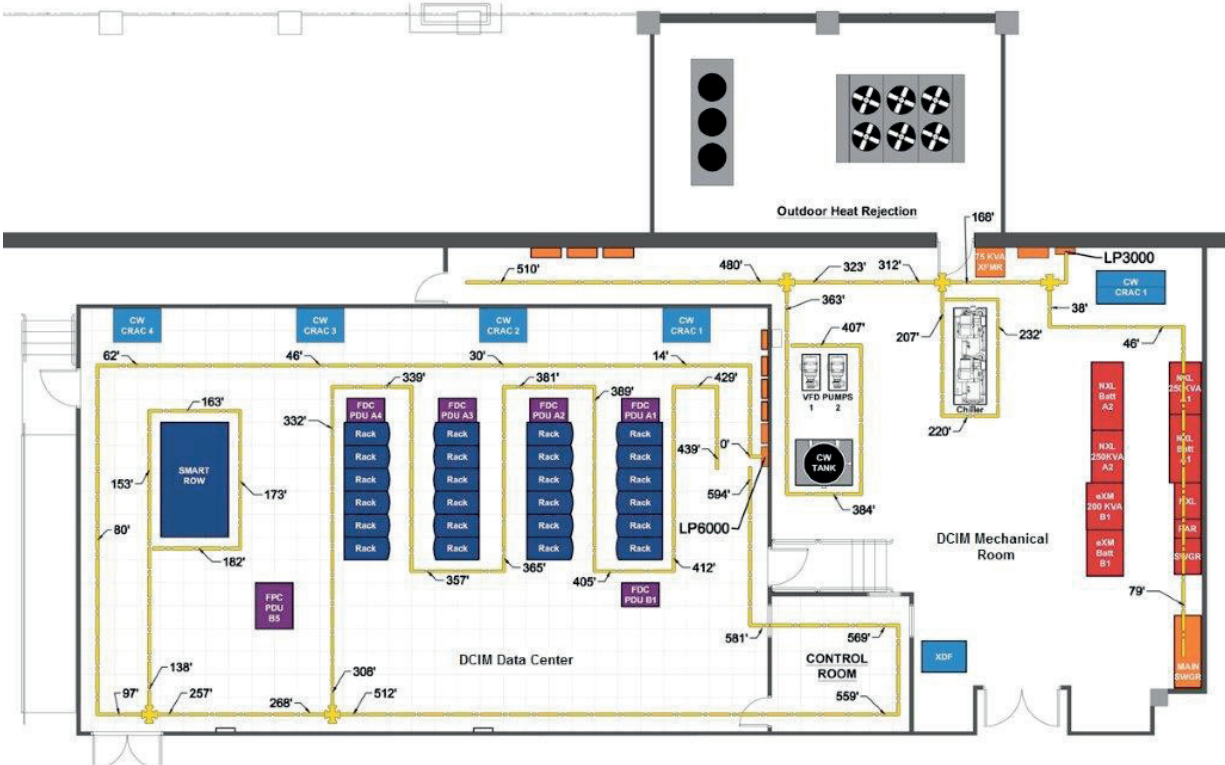
### Pulling It All Together - An Overall Critical Facility Monitoring Solution

Liebert Liqui-TECT® leak detection systems are designed to work seamlessly with The *Trellis™* Platform's Site Manager, Liebert's SiteScan® Web enterprise monitoring system and Liebert Nform™. Each of these solutions are a web-based site monitoring and control solution for computer support equipment and other critical facility applications. The Liebert interface hardware allows connection of the leak detection controls to the enterprise monitoring system.

The *Trellis™* Platform Site Manager provides graphical representation on 2-dimensional and 3-dimensional floor plans as well as centralized alarm management for monitoring and reporting leak alarms.

Liebert's SiteScan Web monitoring system can graphically represent your leak detection layout in 2-dimensional and 3-dimensional floor plans.

Liebert's Nform provides a centralized alarm management for monitoring and reporting leak alarms. Notifications, logging and management of alarm conditions for the entire facility are configured and managed from a central location reducing support time.





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