



ENSURING DATA CENTER RESILIENCE

THERMON'S COMPREHENSIVE SOLUTIONS



Visit: <https://thermon.com/data-centers-interest/>

For those designing and managing critical data center infrastructure, ensuring uninterrupted operation and achieving the lowest **Power Usage Effectiveness (PUE)** is paramount.

Start with absolute confidence by validating your systems with the **Therman Poseidon™ and Pontus™** Liquid Load Bank.

Simulating real-world thermal and electrical demands, the Poseidon™ and Pontus™ Load Banks provide mission-critical test validation for your data center and High-Performance Computing (HPC) environments.

Beyond this crucial testing, Therman delivers a comprehensive suite of solutions

for data centers: engineered to safeguard vital fluid transport, cooling circuits, and storage vessels, proactively preventing costly interruptions and achieving the lowest Power Usage Effectiveness (PUE).

Therman has everything you need including smart-connected controllers, self-regulating heat trace, tank immersion heaters, Powerblanket™ removable heating blanket, and full line of engineered accessories including end of circuit lights for easy operational indication. We also provide the design expertise, installation, commissioning and maintenance services required to do the job right.

THERMON PRODUCTS

Liquid Load Bank

Therman Pontus and Poseidon are equipped with internal heating elements designed to replicate the thermal output of active servers. This enables comprehensive testing of the facility's cooling infrastructure—including CPUs, GPUs, CDUs, chillers, and pumps—under realistic operating conditions.

In addition to thermal simulation, the units draw electrical power directly from the facility. This allows for validation of critical electrical systems such as PDUs, UPSs, and switchgear, ensuring they perform reliably under expected load conditions.

FEATURES

Performance Validation: Accurately test and verify the cooling capabilities of thermal management systems.

Heat Transfer Assessment: Ensure the system can efficiently transfer and dissipate heat under controlled conditions.

Parameter Tuning: Adjust key variables such as fluid flow rate, pump flow rates and temperature stability for optimal performance.

Safe, Repeatable Testing: Conduct consistent and risk-free evaluations without exposing actual hardware to stress.

System Optimization: Simulate various load scenarios to fine-tune cooling system performance and efficiency.



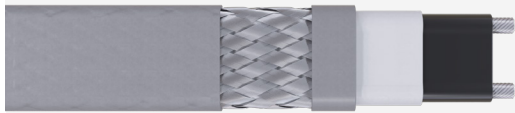
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Self-Regulating Heat Tracing Cables

These heating cables maintains the temperature of critical piping and equipment like cooling tower lines, glycol tank lines, HVAC piping, roofs, downspouts, and gutters, ensuring smooth operation in harsh freezing conditions.



Advanced Controls & Monitoring

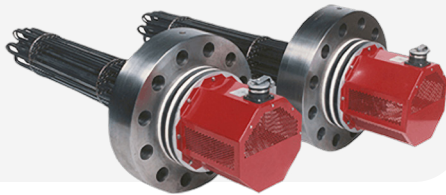
Control panels: Our range of controls, from on/off freeze protection to the advanced Genesis Controller, offer real-time visibility, trending, critical alarm features, and intuitive ease-of-use.

Genesis Network: Optimizes your heat trace system for maximum uptime and minimized maintenance costs.



Thermon Immersion Heaters

Designed for tanks and fluid systems, immersion heaters keep essential liquids like dielectric and propylene glycol water cooling fluids above their freeze points, enabling reliable storage and transfer.



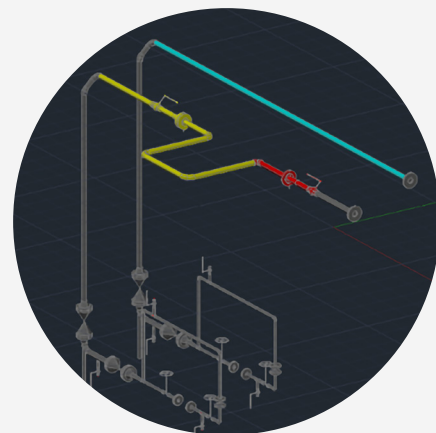
Powerblanket Removable Blankets

Offering flexible and removable heating, these blankets are ideal for various data center equipment including valves and cooling towers.



Engineering Deliverables

Design drawings which provide visibility into every cable, component and associated electrical loads and panel assignments. Our engineering center is available to provide you with custom designs, and with our software automation you can be certain that our solutions will be coordinated and efficient.



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