



Product Datasheet

# LIQUID LOAD BANKS

**THERMON POSEIDON™ & THERMON PONTUS™**

## OVERVIEW

The **Thermon Poseidon™** and **Pontus™** Liquid Load Banks are advanced systems designed to simulate real-world cooling and electrical demand in data centers and other High Performance Computing (HPC) environments. Custom designed and optimized by process heating/heat transfer experts, but standardized for quicker lead times and more value, **Poseidon** and **Pontus** Load Banks are built-for-purpose to support the data center commissioning and start-up market, including Integrated Systems Testing.





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### FEATURES

- 9" Siemens SIMATIC HMI (KTP900) with simple and easy controls
- Temperature Indication, equipped with a temperature readout displayed on HMI
- Compatible with all of the industry-leading providers of CDUs and PDUs
- Mushroom E-stop, pilot light, and on/off power switch
- Audible alarm system for high temp, low flow, or low water conditions
- KW limiting switches for each stage with toggle control
- Equipped with Quick Connection Camlock Power connectors
- Stainless Steel Construction for all wetted parts
- Forklift pockets, lifting shackle provisions, and heavy-duty casters
- Integrated air vent and drain valve
- Mechanical guarding around HMI panel, door operators and inlet/outlet flange connection points
- Cover for electrical camlock connectors when not in use
- Equipped with butterfly valves on inlet and outlet nozzle connection points
- Rigid painted steel frame with extended handles and grab bars
- Fiberglass insulation blanket for heat retention and operator safety

### RELIABILITY

- Step Control and SCR modulation control for Heat Duty regulation to extend the life of heating elements and contractors
- Vessel insulation prevents over-radiation of heat to neighboring Control Enclosures and touch surfaces to improve operator protection
- Individually replaceable elements support easy maintenance
- 90A rated fuse connections to mitigate failure
- Top-mounted heating elements to prevent build-up of solids on heating element surface
- Magnetic contactors rated for over 1,000k cycles
- Global support from responsive Thermon engineering and site services teams





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To meet global demand, **Thermon's Poseidon™** and **Pontus™** Liquid Load Banks are designed to comply with regional certifications and standards, giving you peace of mind no matter where your operations are located.

### CERTIFICATION & COMPLIANCE

- **For US Markets:** Poseidon™ Liquid Load Bank meets stringent US standards and certifications, including ASME, NEC, ANSI, and UL. Poseidon incorporates standard systems and controls specifically tailored to the regulatory needs of the US market.
- **For Non-US Markets:** Pontus Liquid Load Bank meets key international standards and certifications such as CRN, CE-mark, PED, and ASME. Pontus Liquid Load Banks can also be custom engineered to meet additional regional certification and standard requirements, ensuring seamless integration into any global operation.

### SMALLER FOOTPRINT

- Compact design: 62" x 40" x 74"
- Weight (dry): 2,200Lbs (1,000 Kg)
- Dedicated power cabinet with space-saving buss bar arrangement
- Tighter element pitch and higher heat duties for maximum performance
- Capacity rating up to 600kW at 480V (dual voltage rating down to 415V)
- Designed for modular, mobile testing in HPC and data center environments

### THERMON POSEIDON™ & THERMON PONTUS™

Dry Weight	2250 lbs.
Dimensions	40" W x 67" L x 72" H
Inlet & Outlet Connection	4" 150# ASME Flange, c/w butterfly valves
Voltage	Dual or Single Voltage Options (415V, 480V)
kW Output Range	500kW at 415V, 600kW (+) at 480V
kW Load Step	Customizable, starting as low as 5kW. Final stage with SCR Modulation
Pressure Rating	160 psi (11 bar), 195 °F (90.5 °C)
Control Platform	Siemens S7 (optional CodeSys Ready Controller)
HMI	9" Siemens
Mechanical Design Code	ASME Section VIII
MATL Construction Wetted Parts	SS304 (Vessel, Piping, Valves)
Mobility	Casters, Fork Lift Pockets, Provision on top frame structure to add lifting shackles, and grab bars for operator maneuverability.
Electrical Design Code	NEC/NFPA, UL 834
Heating Element	Incoloy 800 Sheath, NiCr Wire, MGO Insulation
Heating Element Watt Density	104 W/in <sup>2</sup> at 480V
Electrical Enclosure Rating	NEMA12 (IP54)
Power Terminals	Quick connect Camlock Connectors
Certifications and Approvals	ANSI
	NEMA
	NEC
	ASME with CSD-1

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