



LIQUID-COOLED LOAD BANKS

For testing and commissioning of data center's cooling systems. Simulate IT heat loads for stress or integrated system test among other applications.

Designed to be modular and scalable, the units can work in tandem to achieve a great number of heating capacities and temperature rise.

With virtually no moving pieces, the load banks require minimal maintenance and have a quiet operation.

Built with stainless steel materials as well as being subjected to high-level cleaning before delivery, the units ensure there is no contamination or debris into the cooling distribution lines.

Provided with PLC/HMI control and available to interconnect using a cluster controller (separate unit) to monitor and operate up to 60 units from a single location.

- Modbus TCP/IP and RTU.
- 25-50W load step resolution.
- SS304 construction materials.
- Field-adjustable alarms and faults.
- Modular deployments; individual and synchronized control.
- PLC controller and 10" touchscreen HMI.
- Power, temperature, flow, pressure and level monitoring.
- Suitable for use with PG/EG and DI water.
- UL508A and ASME U-stamped pressure vessel.
- Patent pending 63/801,412.





KEY FEATURES

MODEL LP-AC400V-500kW

HEATING SPECIFICATIONS

Capacity	500kW at 415V, 670kW at 480V
Media	Water/PG25
Temperature rise (PG25)	10°C at 200 gpm
Load steps	25/50kW

HYDRAULIC SPECIFICATIONS

Max. flow rate	400 gpm
Design pressure	90 psi
MAWP	175 psi
Pressure drop	< 2 psi at 200 gpm

ELECTRICAL AND POWER

Input power	400-480 VAC / 3 Φ / 60Hz
Power consumption	697A @ 415VAC
Protection	Circuit breaker short-circuit protection
Control power	Built-in 24 VDC

CONTROL AND COMMUNICATIONS

Control type	PLC
Interface	10" Touchscreen HMI
Communication protocols	Modbus RTU, Modbus TCP/IP, SNMP
Communication ports	(2) RJ-45, (2) RS-485

ALARMS AND MONITORING

Alarms	High/Low pressure, High/Low temperature, Low level, Low flow, Instrumentation failure, Leakage alarm, Heater fault, E-Stop
Monitoring	Pressure, flow rate, temperature, power, ambient temperature and relative humidity

EQUIPMENT SPECIFICATIONS

Piping material	304SS
Process connections	4"
Base	Built-in casters
Dimensions	62"Wx79"Hx39"D

CERTIFICATIONS

Electrical	UL508A
Tanks	ASME U Pressure Vessel

