LIQUIDPULSE

LIQUID-COOLED 2 MW LOAD BANKS

Designed for testing and commissioning data center cooling systems, the 2 MW Liquid-Cooled Load Bank simulates real-world IT heat loads for stress testing, integrated system validation, commissioning, and performance verification applications.

Featuring four independently controlled 500 kW heating clusters with advanced IGBT step control, the 2 MW Liquid-Cooled Load Bank delivers precise heat-load simulation while using the facility's cooling water to dissipate generated heat. This approach closely mimics the thermal behavior of high-density IT equipment, making it an ideal solution for data center cooling system commissioning, integrated system testing, and performance validation.

Constructed from stainless steel materials and subjected to rigorous cleaning procedures prior to shipment, the unit helps ensure cooling distribution systems remain free from contaminants and debris during commissioning and operation.



- Modbus TCP/IP and RTU
- SS304 construction materials
- Field-adjustable alarms and faults
- PLC controller and 10" touchscreen HMI
- Modular deployments; individual and synchronized control
- Power, temperature, flow, pressure and level monitoring
- UL508A electrical panel
- Suitable for use with PG/EG and DI water
- Four independent 500 kW heating clusters
- Four IGBT controllers for precise load regulation

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KEY FEATURES

MODEL LP-AC400V-2MW

HEATING SPECIFICATIONS

Capacity	2MW at 415V, 2.4MW at 480V
Media	Water/PG25
Load steps	5kW

HYDRAULIC SPECIFICATIONS

Max. flow rate	Nominal: 800 gpm- Max: 1600
MAWP	150 psi

ELECTRICAL AND POWER

Input power	400-480 VAC / 3Φ / 60Hz
Power consumption	(4) 697VAC Total
Protection	(4) 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

ALARMS AND MONITORING

Alarms	High/Low pressure, High/Low temperature, low level, low flow, instrumentation failure, leakage alarm, heater fault, E-Stop, overcurrent
Monitoring	Pressure, flow rate, temperature, power, ambient temperature and relative humidity

EQUIPMENT SPECIFICATIONS

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

CERTIFICATIONS

Electrical	UL508A

LIQUIDPULSE, LLC
5320 Peachtree Rd.
Balch Springs, TX 75180

(469) 378-0004
www.liquidpulse.com
connect@liquidpulse.com