LIQUIDPULSE

# 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 120 units from a single location.

- Modbus TCP/IP and RTU
- SS304 construction materials
- 25-50kW load step resolution
- 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 and ASME U-stamped pressure vessel
- Suitable for use with PG/EG and DI water
- Patent pending 63/801,412



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# KEY FEATURES

## MODEL LP-AC400V-500kW

### HEATING SPECIFICATIONS

| | |
|---|---|
| Capacity | 500kW at 415V, 535kW at 480V |
| Media | Water/PG25 |
| Temperature rise (PG25) | 10°C at 200 gpm |
| Load steps | 25/50kW |

### HYDRAULIC SPECIFICATIONS

| | |
|---|---|
| Max. flow rate | 400 gpm |
| MAWP | 150 psi |
| Pressure drop | < 2 psi at 200 gpm |

### ELECTRICAL AND POWER

| | |
|---|---|
| Input power | 400-480 VAC / 3Φ / 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, (1) RS-485 |

### 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 |
| Process connections | 4" |
| Base | Built-in casters |
| Dimensions | 62"Wx79"Hx39"D |

### CERTIFICATIONS

| | |
|---|---|
| Electrical | UL508A |
| Tanks | ASME U Pressure Vessel |







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