LIQUIDPULSE

HYBRID LOAD BANKS

For testing and commissioning of data center's cooling systems.
Simulate both liquid and air heat loads in integrated system tests.

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

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 coolant distribution lines.

Provided with PLC/HMI control and available to interconnect using a cluster controller (separate unit) to integrate its use with
Liquid Load Banks and other Hybrid Load Banks
for up to (120) connected machines.



- 5kW load steps
- PLC controller and 7" HMI
- Modbus TCP/IP communication
- Integration with Liquid Load Banks
- ASME U-stamped pressure vessels
- Variable air-load fan speed control
- Modular deployment and operation
- Suitable for use within the white space
- Field-adjustable alarms and set points

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KEY FEATURES

HYBRID LIQUID/AIR LOAD BANK

HEATING SPECIFICATIONS

Liquid Capacity	165kW with 1kW load steps
Air capacity	60kW with 1kW load steps
Liquid Media	DI water / PG25

HYDRAULIC SPECIFICATIONS

MAWP	150 psi
Liquid pressure drop	<5 psi

ELECTRICAL AND POWER

Input power	415-460 VAC / 3Φ / 60Hz
Interface	Two sets, each including (3) male cam-locks, (1) air connection, (1) liquid connection, and (1) ground connection.
Protection	Circuit breakers

CONTROL AND COMMUNICATIONS

Control type	PLC
Interface	7" HMI
Communication protocols	Modbus TCP/IP
Communication ports	(2) RJ45

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

EQUIPMENT SPECIFICATIONS

Piping material	304SS
Process connections	2" FD83 connections
Base	Metal frame with built-in casters and forklift slots
Dimensions	800Wx1400Dx2200H mm

CERTIFICATIONS

Tanks	ASME U Pressure Vessel





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

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