



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.

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





KEY FEATURES

HYBRID LIQUID/AIR LOAD BANK

HEATING SPECIFICATIONS

Liquid Capacity	165kW with 5kW load steps
Air capacity	60kW with 5kW load steps
Liquid Media	DI water / PG25

HYDRAULIC SPECIFICATIONS

Design pressure	90 psi
MAWP	150 psi
Liquid pressure drop	<5 psi

ELECTRICAL AND POWER

Input power	415-460 VAC / 3 Φ / 60Hz
Interface	Two sets of (3) male cam-lock connections plus ground
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
Monitoring	Pressure, flow rate, temperature, power

EQUIPMENT SPECIFICATIONS

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

CERTIFICATIONS

Tanks	ASME U Pressure Vessel
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