



## 500 kW liquid-cooled load bank

Aggreko's purpose-built liquid-cooled resistive load bank delivers up to 500 kW of precision load for data center commissioning and testing, seamlessly integrating with existing cooling infrastructure. Built for durability with corrosion-resistant stainless steel components and a sturdy welded frame, it features 5 kW load step resolution, a fully drainable system to prevent cross-contamination, and the ability to network up to 200 units for scalable testing. A built-in flow meter ensures real-time monitoring, making this liquid-cooled load bank a reliable, efficient, and adaptable solution for high-performance load testing.

### GENERAL DESCRIPTION

<b>CAPACITY</b>	500 kW
<b>COOLING SYSTEM</b>	Liquid cooled, stainless steel tanks and piping
<b>AMBIENT TEMPERATURE</b>	120°F (49°C) max
<b>LOAD TYPE</b>	Resistive
<b>ENVIRONMENT</b>	Self-contained portable load bank designed for operation and storage indoors.

### ELECTRICAL SPECIFICATIONS

<b>VOLTAGE</b>	415V or 480V
<b>FREQUENCY</b>	50Hz or 60Hz
<b>LOAD INCREMENTS</b>	Up to 5kW steps
<b>CONTROL POWER</b>	Internal/External (120V, single-phase, 60Hz, 5A)

### CONTROLS

<b>OPERATOR CONTROLS</b>	RxMS Controller, TCP/IP Modbus, Shark Power Meter Local controls via push buttons
<b>MONITORING SYSTEM</b>	Flow, pressure, temperature monitoring with alarms
<b>PORTS</b>	2 x Ethernet

## PERFORMANCE

<b>FLOW</b>	40-300 GPM
<b>PRESSURE RATING</b>	70 PSI working, 105 PSI test
<b>TEMPERATURE LIMITS</b>	180°F max water outlet, 85°F max temp change
<b>PROTECTION FEATURES</b>	Over Pressure, Over Temp, Low Flow Rate, Circuit Fuses

## SAFETY & PROTECTION FEATURES

<b>OVERLOAD PROTECTION</b>	Circuit fuses for short circuit protection
<b>TEMPERATURE MONITORING</b>	Thermocouples trigger shutdown at high readings
<b>PRESSURE MONITORING</b>	Rugged pressure sensors trigger shutdown if pressure is too high
<b>FLOW MONITORING</b>	Magmeter tracks flow rate; shuts down below 40 GPM

## PHYSICAL DATA

<b>DIMENSIONS (L X W X H)</b>	65in x 39.5in x 74.5in (1650mm x 1005mm x 1892mm)
<b>WEIGHT (FULL/EMPTY)</b>	3,328 lbs (Full) / 2,504 lbs (Empty)
<b>FLUID VOLUME</b>	103 gal (389.9 L)
<b>CONSTRUCTION MATERIAL</b>	Aluminized Steel
<b>CORROSION RESISTANCE</b>	Stainless steel piping & tanks
<b>MOBILITY</b>	Heavy-duty casters with floor lock

## OPTIONAL ACCESSORIES

<b>LOAD CABLE SET</b>	20' (6096 mm) Load Cable Set with Connectors
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## FEATURES

- Corrosion resistant stainless steel piping and tanks.
- Up to 5 kW load step resolution.
- Equipped with a controller that integrates both liquid cooled and air-cooled load banks within the same network, managing up to 200 load banks from a single Windows-based interface.
- Quiet operation
- Ability to fully drain system to avoid cross contamination between jobs.
- Steel enclosure, welded frame and heavy duty castors for durability and long working life.
- Alarm indicators/safety controls

## BENEFITS

- Liquid cooling ensures stable temperatures for accurate results. Achieved by using 2 x 45 gallon stainless steel tanks.
- Low resolution allows fine load application, meaning more accurate loading. Handles high power loads in a smaller footprint.
- The new RxMS control system revolutionizes how customers can load test their whole system from one single point of control. This is the first in the industry.
- Efficient heat dissipation for testing time reduction.
- Provides low-noise operation and minimizes heat emissions.
- Tanks can be flushed, preventing cross-contamination of customer sites. Also features an air valve to assist in bleeding air out of the system.
- Rugged enclosure ensures damage-free shipping and accidental damage when in use with the crash frame. Also features a floor lock to safely fix in position when in use.
- The load bank will protect itself from low flow, over-temperature, and over-pressure conditions. This reduces overheating risks and improves site safety.