



The Avtron Model LC20 is ideal for data center commissioning and testing while integrating seamlessly with existing cooling infrastructure. They are resistive, AC liquid cooled load banks designed for operation indoors when up to 500 kW of resistive load is required.

- Corrosion resistant stainless steel piping and tanks
- Controller enables networking up to 200 liquid or air cooled load banks
- Up to 5kW resolution
- Ability to fully drain system to avoid cross contamination between jobs
- Steel enclosure, sturdy welded frame, and heavy duty casters for durability and long life
- Built-in flow meter visually displays flow rate and monitors for under or over flow conditions

LOAD BANK RATINGS

Standard capacity rating:

- 500 kW at 415V, 3 PH, 50/60Hz, 5 kW load step. Also available at 480V

Please consult factory for non-standard ratings.

FEATURES

- **Flow:**
40 GPM Min [150 litres]
300 GPM Max [1136 litres]
- **Sensors:**
Over Pressure, Over Temperature, Low Flow Rate (40 GPM Min) Protection
- **Pressure Rating:**
70 PSI [4.8 bar] Working Pressure
105 PSI [7.2 bar] Test Pressure
- **Temperature:**
170°F [77°C] Max. Water Outlet
90°F [32°C] Max. Temperature Change
- **Control Power:** INT/EXT with Switch
- **Inlet/Outlet Connections:**
4" [101.6mm] NPT Thread
- **Mobility:** 6" [152.4mm] Nylon Casters
- **Lock System:** Floor Lock

Control Power

Power is either derived externally from the control power receptacle located on the front of the unit or internally from a control power transformer. If external power is used, 120V, single Phase, 60 Hz, 5 amp power source is required for the control circuits.

Cooling System

The liquid cooled load bank has corrosion resistant stainless steel tanks and piping. The unit has 2 tanks, inlet & outlet piping, and resistors/elements on inside of the tanks. Avtron liquid cooled load banks have the capability to monitor flow, pressure and temp.

Operator Controls

The Avtron RxMS controller 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. It supports TCP/IP Modbus communication, utilizing an Ethernet-based wiring infrastructure for seamless connectivity.

The control panel features power on/off functions, master load on/off management, and alarm indicators for low flow, over-temperature, and over-pressure conditions, and control power internal/external switch, as well as a notification for remote mode and quantity (2) Ethernet connections.

An integrated Shark power meter displays AC 3-phase voltage and current, power (kW), frequency, and power factor.

Construction

The LC20 is constructed using heavy gauge aluminized steel per ASTM A463. It is designed for continuous indoor operation. Sturdy welded frame and heavy-duty casters are provided for easy mobility, durability, and long life.

Finish

The LC20 has a high quality baked polyester powder coated finish with a film thickness of 2.8 +/- 0.4 mils per coat. The standard color is gray (ANSI 61).

Two Year Warranty Included

The equipment is covered by a 24-month parts and labor warranty.

Model LC20 Specifications

Resistor Elements

The heating elements are immersion-type, constructed from Incoloy 800, and feature a stainless steel screw plug mounting for secure installation.

The elements are continuously rated at the specific voltage. Tests at lower voltages, with a corresponding reduction in overall rating, may be carried out.

Sensors

Thermocouples monitor temperature, triggering a resistor elements shutdown if high readings are detected by the iLB software.

Rugged pressure sensors measure pressure, shutting down the resistor elements if high-pressure levels are identified.

A magmeter tracks flow rate and the resistor elements shut down if flow drops below 40 GPM.

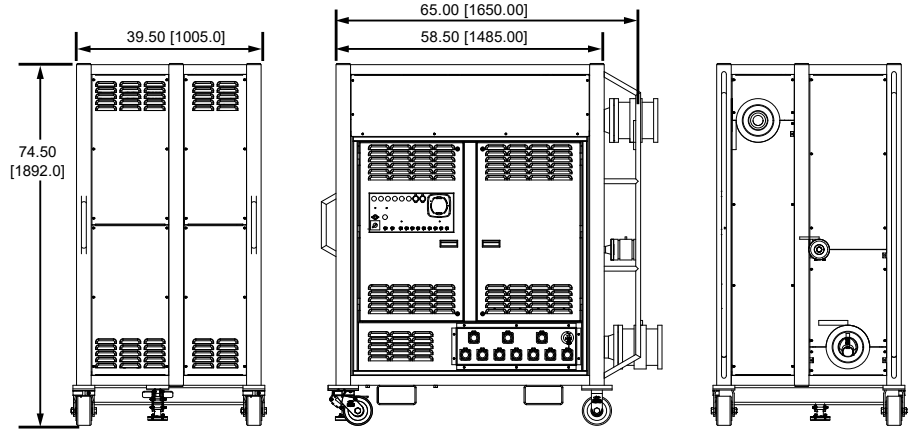
The load bank contains fuses for short circuit protection. The control circuit is protected with a 10 amp fuse while the individual load steps have branch circuit fuse protection.

Ambient Temperature

The LC20 load bank is designed for continuous duty cycle with no limitations. The ambient temperatures max is 120°F (49°C).

Environment

The LC20 is self-contained portable load bank designed for operation and storage indoors.



All dimensions are in inches [millimeters]. Specifications subject to change without notice.

Power Terminals

Input connections are quick connect style receptacles mounted on the load bank.

Optional Accessories

- 20' [6096] Load Cable Set with Connectors

Documentation - Operating Manual

A comprehensive operator's manual is supplied electronically via a USB drive.

Sections include: Safety, Installation, Operation, Maintenance, and Troubleshooting.

Testing and Standards

Avtron load banks comply with NEMA, NEC, and ANSI standards.

Dimensions (approx. in/mm)

Length	Width	Height
65/1650	39.5/1005	74.5/1892