



The Avtron Model 2600 are resistive, AC load banks designed for operation indoors when up to 75 kW of resistive load is required.

LOAD BANK RATINGS

Standard capacity ratings of:
1 Phase/60Hz

Rated kW	120/240 VAC	240 VAC	Load Steps
21.75	✓		.25 kW
25	✓		.5 kW
75		✓	1 kW

Standard capacity ratings of:
3 Phase/60Hz

Rated kW	240/480 VAC	208 VAC	Load Steps
55	✓		5 kW
75		✓	5 kW

NOTE: Above load capacities are unit specific. Please consult factory for non-standard ratings.

Fan and Control Power

The load bank requires a 120V, single phase 60 Hz, 15 amp source for operation of control circuit. A line cord for control power is provided with the load bank.

The fan motor is part of control circuit and receives power from the line cord.

If supply frequency is different from load bank rating, please contact factory prior to operation.

Cooling System

Approximately 1,740 CFM cooling is provided by six (6) fans which provide necessary cooling air for the load elements.

Operator Controls

Digital monitoring via full digital metering (V, A, Hz, kW) with automated data acquisition and real time data logging, software IrDA converter supplied.

Local control panel including: Main Power ON-OFF switch, Power ON indicator, Over-temperature indicator, Load Voltage selector switch for operation at 240 or 480 volts, and Master Load ON-OFF switch. Load selection is provided by individual industrial lever-type toggle switches.

Construction

The 2600 is constructed using heavy gauge aluminized steel per ASTM A463. It is designed for continuous indoor operation. The load bank comes standard with a rugged transport case. The transport case features fixed wheels and telescoping handle.

All exterior fasteners are stainless steel. The load step relays, fuses, and fan/control relays are located in the main enclosure. Quick disconnect receptacles are located on the exterior of the load bank.

Finish

The 2600 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 an industry exclusive 24-month parts and labor warranty.

Model 2600 Specifications

Resistor Elements

Avtron load banks use helically wound chromium alloy Helidyne elements. Elements are fully supported across their entire length by segmented ceramic insulators on stainless steel rods. These elements are designed to operate at approximately 1/2 of their maximum continuous wire rating.

Elements are positioned within the cooling airstream for optimal performance. Changes in resistance due to temperature are minimized by maintaining conservative watt densities.

The overall load tolerance of the load bank is -0, +5%. This ensures that advertised kW is delivered at rated voltage.

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

Safety Features

The load bank contains six (6) fans which provide the necessary cooling air for the load elements. A seventh fan is provided to cool the control panel.

Exhaust temperature sensors are provided to monitor the flow of cooling air. These switches are electrically interlocked with the load application. If one or more of the fans are not working properly, the load steps are disabled.

Air to cool the load elements enters the screened intakes located on one side of the load bank. The air passes over the resistive elements and is then discharged through the screened opening at the other side of the load bank.

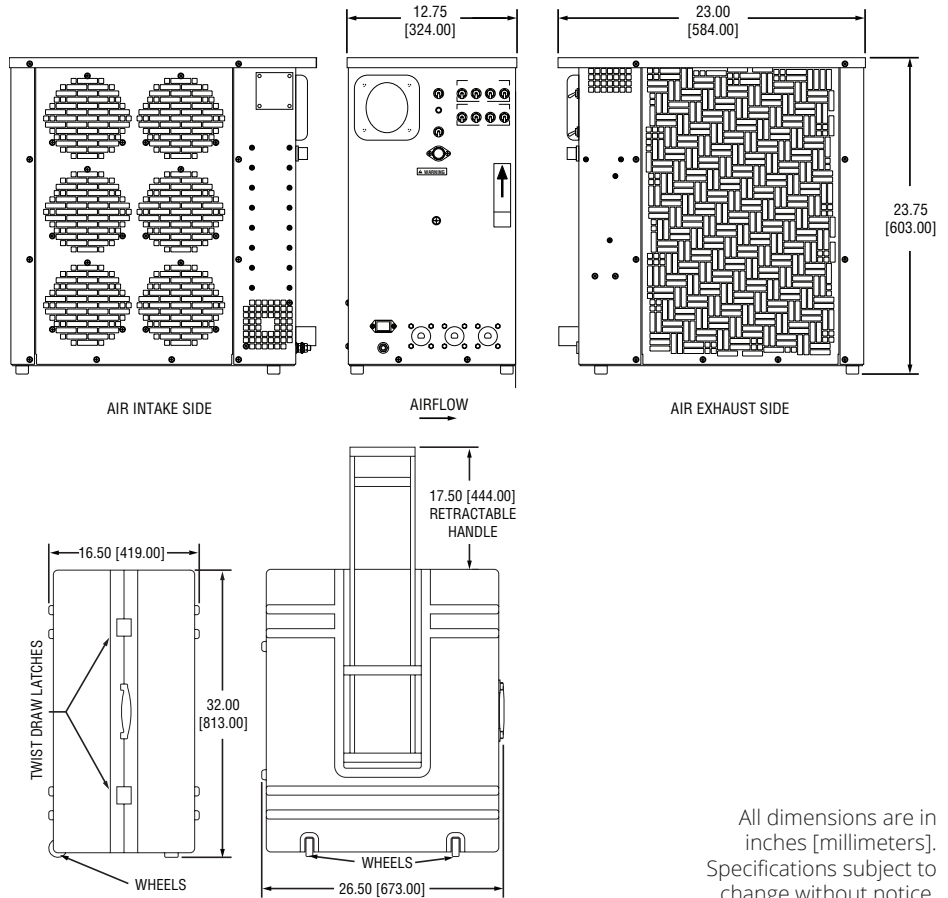
The load bank also contains fuses for short circuit protection. The control circuit is protected with a 5 amp fuse, while the voltage signals to the meter are protected with 1 amp fuses. The load circuit is protected with main line fusing.

The exterior of the load bank has appropriate warning and caution statements on access panels.

Internal access is restricted by screw on exterior panels.

The air intake on the 2600 is designed to prevent objects greater than 0.50" diameter from being ingested into the unit.

Side air discharge can be directed away from personnel.



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

Ambient Temperature

The 2600 load bank is designed for continuous duty cycle with no limitations. The ambient temperatures range is -20°F to 120°F (-28°C to 50°C).

Environment

The 2600 is portable load bank designed for continuous indoor operation.

Load power is connected to the load bank through receptacles located on the front of the load bank.

Optional Accessories

- 20' 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. Quality control system is certified to ISO9001 standards.

Weight and Dimensions

Load Bank Only Dimensions (approx. in/mm)			Weight (approx. lb/kg)
Length	Width	Height	
23/584	12.75/324	23.75/603	70/32