

# ASCO® Avtron 2100 Load Bank

**The ASCO Model 2100 (formerly Avtron K490) Load Bank is designed for operation indoors when up to 10 kW of resistive load is required.**



The ASCO Avtron 2100 load bank (part of the 2000 series portable product range) features the most comprehensive innovations in both design and technology.

## Load Bank Ratings

Standard capacity ratings of 10 kW.

Standard load step resolution of 1 kW.

Select from standard single phase voltage ratings of:

- 120-60Hz
- 120/240-60Hz

Please consult factory for non-standard ratings.

## Cooling Fan Control

An external 120V, 1 Phase, 60 Hz supply is required for blower control circuit operation (model dependent).

## Cooling System

Approximately 400 CFM cooling is provided by integral cooling fans.

The cooling fans are protected by main input fuse.

## Operator Controls

The standard load control for the 2100 is a manual local panel. Controls include: Power On/Off switch, Master Load On/Off switch, and Individual Load Step switches. Visual indicators include: Overtemperature/Over-voltage.

## Metering

Typical metering is analog volt and ammeter (model dependent). Banana plugs are provided for external monitoring from customer supplied multimeter.

## Construction

The 2100 is constructed using heavy gauge aluminized steel per ASTM A463. It is designed for continuous indoor operation. Carrying handle mounted to top of unit for lifting.

All exterior fasteners are stainless steel.

The main input terminals, load step switches, and metering are located on the main enclosure.

## Finish

The 2100 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.

**For more information on the 2100 or any other 2000 series load bank please contact a member of our sales team at [customer@ascopower.com](mailto:customer@ascopower.com) or 216-573-7600.**

### Resistor Elements

The ASCO Avtron brand load banks use helically wound chromium alloy Helidyne elements. Elements are supported by ceramic insulators on internal frame supports. 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 2100 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

Overvoltage protection protects load bank when an overvoltage condition is detected.

Overtemperature protection protects load bank when an overtemperature condition is detected.

The load bank control circuit is fuse protected.

### Ambient Temperature and Humidity

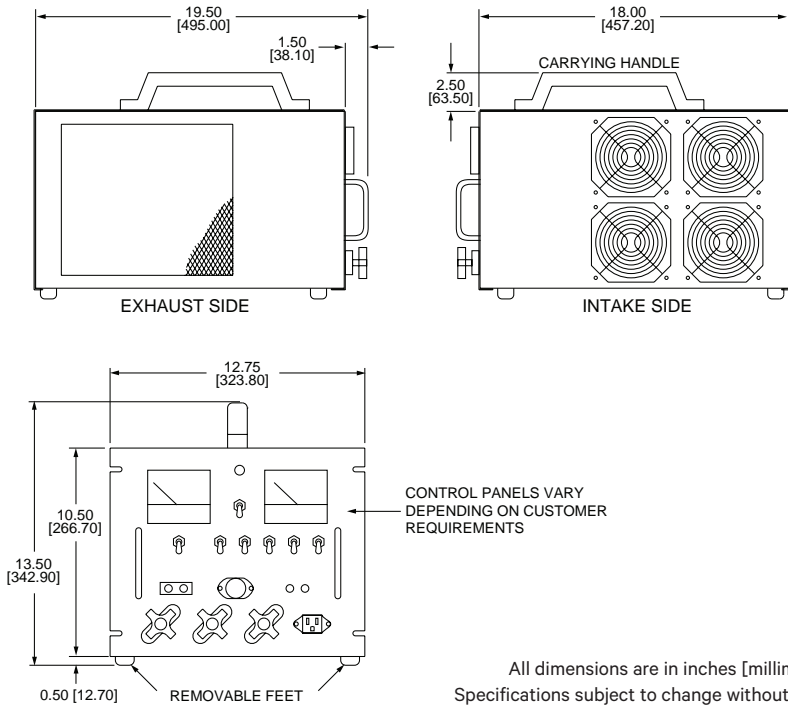
The 2100 load bank is designed for continuous duty cycle with no limitations. The ambient temperatures range is -20°F to 120°F (-28°C to 50°C).

### Environment

The 2100 is self-contained portable load bank designed for operation and storage indoors.

### Power Terminals

Input connections are twist-on terminals mounted on control panel. The terminals are identified as line and neutral.



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

### 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

The ASCO Avtron brand load banks comply with NEMA, NEC, and ANSI standards. Quality control system is certified to ISO9001 standards.

### Weight and Dimensions

Dimensions (approx. in/mm)			Weight (approx. lb/kg)
Length	Width	Height	
19.5/495	12.75/323.8	13.5/342.9	30/13.61