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## TRAILER MOUNTED RESISTIVE LOAD BANK

1000 TO 1250 KW

### MODEL K580



Shown with optional cable storage reels and quick connect receptacles.

QUALITY SYSTEM CERTIFIED TO  
**ISO 9001**

- High Capacity in a Compact Package
- Heavy Duty Dual Axle Trailer
- Low Profile Design
- Optional Cable Reels or Cable Storage Box
- Convenient Operator Controls with Digital Metering and Data Logging Software Included
- Load Bank is Available Loose as a "Trailer-Ready" Version
- Legendary Avtron Quality

**T**he Avtron Model K580 load bank contains resistive elements and a blower motor in a rigid structure of formed heavy gauge aluminum steel. Designed for outdoor operation and storage, the K580 utilizes a screened air inlet and exhaust to protect the motor and resistive assemblies.

Carefully engineered and manufactured Helidyne™ resistor elements are designed to operate at a fraction of their maximum temperature rating. This ensures more stable loading, extends element operating life, and eliminates the need for a cool down period after each loading session.

The new standard in Digital Metering includes the Avtron Advanced Digital Monitoring System (ADMS™). The ADMS meter provides faceplate Digital display of Volts, Amps, Frequency, and Power measurements. The Communicator EXT™ Data Logging Software allows Real Time Data Acquisition and trending of all meter parameters from your Laptop PC or PDA. An Infrared/USB interface cable is included for "Plug and Play" convenience.

Legendary Avtron Quality combined with simple operation and maintenance provide years of trouble free service.

*The Model K580 trailer mounted load bank is ideal for high power mobile testing of AC generating systems at multiple sites.*

*Avtron's extensive line of Load Bank and Industrial Resistor Products are solid performers used throughout the world.*

*For total technical support or additional information, please contact Avtron at (216) 573-7600 or [LBsales@avtron.com](mailto:LBsales@avtron.com).*

# K580 LOAD CAPACITY RATINGS

Part Number	Load Capacity KW	Minimum Load Step Resolution
K580 – 1250	1250KW @ 480VAC, 800KW @ 240VAC, 600KW @ 208VAC	5KW @ 240 or 480VAC
K580 – 1000	1000KW @ 480VAC, 1000KW @ 240VAC, 750KW @ 208VAC	5KW @ 240 or 480VAC

## K580 SPECIFICATIONS

**CONSTRUCTION:** The load bank enclosure is made of heavy gauge aluminized steel with a powder coat paint finish. Side panels are gasketed to protect contactors from the weather. Horizontal airflow provides a low profile and maximum reliability in an outdoor environment. The trailer features heavy duty welded construction with steel deck, dual axles, radial tires, 7000 lbs. GVW, DOT and ICC road legal. Electric brakes, 3" adjustable lunette eye, and stabilizer jacks are provided.

**RESISTOR ELEMENTS:** The resistive elements are designed by Avtron and manufactured of a corrosion resistant chromium alloy wire. Resistive elements are fully supported over their entire length for maximum reliability.

**CONTROLS:** The controls and digital metering are housed in a single NEMA enclosure including a POWER ON-OFF switch, a POWER ON light, BLOWER ON-OFF push buttons with a BLOWER FAILURE light, OVERTEMPERATURE light, MASTER LOAD ON-OFF switch, and load step switches.

**DIGITAL METERING:** Avtron Advanced Digital Monitoring System (ADMS™) is provided for display of Volts, Amps, Frequency, and KW. ADMS™ also includes Communicator EXT™ Data Logging Software.

**COOLING:** The resistive elements are air cooled by a self-contained 15 HP blower rated 208/230 or 460 volts, 3-phase, 60 Hz power. No additional cooling period is required when load is removed.

**PROTECTION:** The K580 differential pressure air switch is electrically interlocked to remove the load if the air flow is not sufficient to produce proper cooling. Overtemperature protection and branch circuit fusing is also provided.

**WEIGHT:** Approximately 3500 pounds [1590 kg] (Load Bank and Trailer without cables).  
Approximately 2000 pounds [910 kg] (Load Bank only).

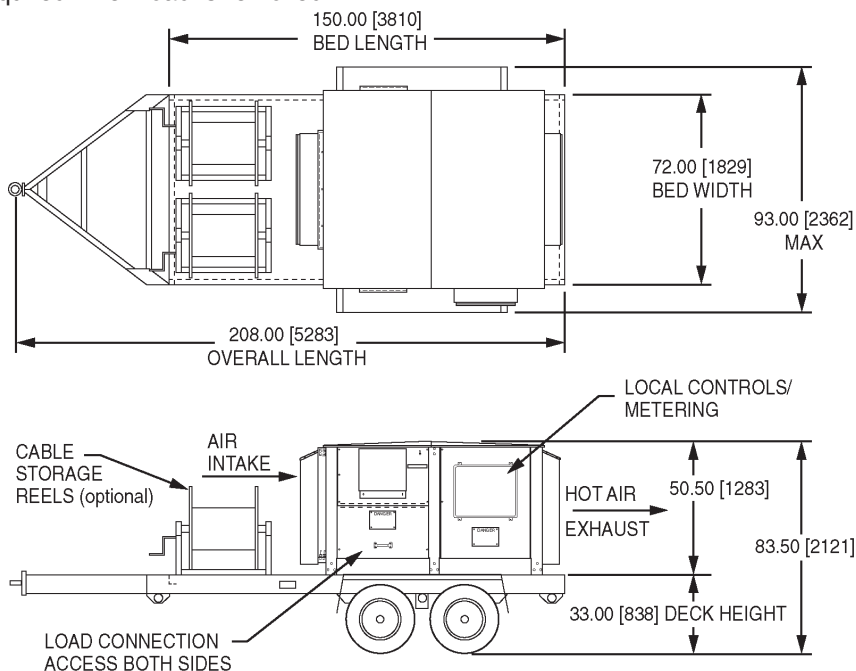
### STANDARD FEATURES:

- Local Meter and Control Panel Enclosure
- Dual Voltage Blower Rated 208/230 or 460 Volts, 3-Phase, 60 Hz
- Control Power Transformer Rated 240/480 Volts to 120 Volts, 1-Phase, 60 Hz

### OPTIONAL FEATURES:

- Cable Reels or Cable Storage Box
- Load Cable (1800 lbs. max.)
- Quick Connect Cable Receptacles
- Hydraulic Surge Brakes

**NOTE:** Refer to Operation and Maintenance Manual for safe towing instructions.



ADMS™ and Helidyne™ are trademarks of Avtron.  
Communicator EXT™ is a trademark of Electro Industries/GaugeTech.

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