





## **Avtron 4000 SERIES Load Banks**

Avtron 4000 SERIES load banks are outdoor-rated resistive units for testing power supplies at unity power factor.

Featuring rugged, heavy-duty construction, 4000 SERIES load banks are designed for continuous use and are built to withstand the rigors of varying climatic conditions.

Models from 50 to 4000kW are available in a wide range of voltages. Remote manual SIGMA 2 control is standard and other digital controls are available as options when networking, Modbus, or building management systems interface is required. 4000 SERIES load banks are suited for mission-critical, data center, equipment rental, service and generator maintenance, factory testing, and renewable energy applications.



## Product Knowledge

Load Bank
Overview
Brochure



Resistive Only



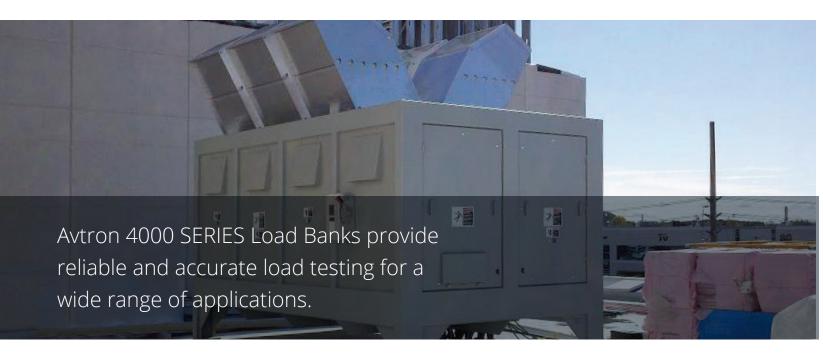
Capacities from 50 to 4000kW



Best-in-class SIGMA controls

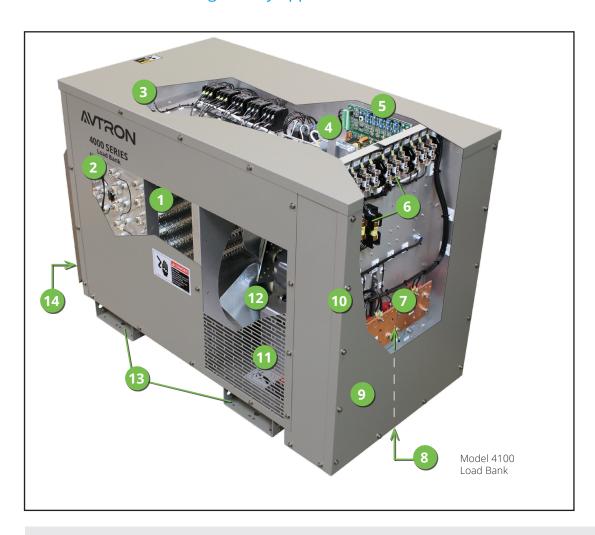


Permanent or Trailer-Mounted Options



## **4000 SERIES Features**

4000 SERIES load banks present unique features that provide reliable and accurate load testing for any applications.



- Avtron designs and manufactures
  Helidyne Resistor Elements to provide
  extended, reliable performance.
  Corrosion-resistant chromium alloy
  provides years of trouble-free service.
- 2 Segmented Ceramic Insulators and Stainless Steel Rods provide unmatched element support. Years of design innovations and field studies have resulted in the most reliable resistive element assembly available.
- Over-Temperature Protection automatically drops applied load if an over-temperature condition is detected.
- Differential Air Pressure Switch protects the unit protection by dropping applied load if cooling airflow is not detected.

- Available Automatic Load Control maintains a minimum load value on power source by monitoring building load. The load controller will automatically adjust load to maintain its target value. A loose current transformer is provided for feedback to the controller.
- Branch Circuit Fuse Protection limits fault current and protects components during phase-to-phase or phase-to-ground shorts
- 7 Input Bus Bars connect incoming power cables.
- 8 Conduit Entry Area provides a removable gland plate for easy stub-up access to input bus bars.
- Aluminized Steel Construction with Powder Coat Paint Finish provides superior heat deflection and corrosion protection.

- Stainless Steel Hardware provides enhanced corrosion protection.
- Screened Cool Air Intakes on both sides of the load bank allows cool airflow and prevents damage from foreign objects.
- Integral Blower Motor and Fan Blades are integral to load bank and engineered to provide proper cooling airflow and motor circuit protection.
- Forklift Pockets provide easy transport and mounting.
- 14 Louvered hot air stream exhaust.

(2)

## **SIGMA 2 Control**

SIGMA is the embedded multifunction control platform for Avtron load banks. It is flexible, feature-rich, and cost-effective. The platform offers intelligent, accurate, and user-friendly control. This provides facilities with best-in-class test and data acquisition capabilities, including:

- ability to network multiple load banks
- control for one or many load banks from a computer or a hand-held device
- communication with building management, Modbus, or SCADA systems for unified site control



SIGMA 2 is a sophisticated load bank control solution that offers advanced instrumentation, ISO8528-compliant data acquisition, and site load correction for any application.

### Product Knowledge

- SIGMA Load
  Control Overview
  Brochure
- SIGMA 2 Brochure
- Benefits of
  Networking
  Load Banks

# **4000 SERIES Specifications**

	odel ame	Capacity (kW)	Frequencies Available (Hz)	Voltage Range (V)	Ambient Temperature Range	Hot Air Discharge Direction	Control Options	Optional Extras
41	00	50-150	50, 60, 50/60	400-600	-20°F to 120°F	Horizontal	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC, SIGMA	Control Power Transformer, Digital Metering, Auto Load Control, Arctic Grade, Fine Resolution
45	00	200-500						
46	00	500-1250						
49	00	1000-2500						
48	00	400-3000	50, 60, 50/60	400-600	-20°F to 120°F	Vertical	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC, SIGMA	Control Power Transformer, Digital Metering, Auto Load Control, Arctic Grade, Fine Resolution
49	50	3000-4000						

## **4000 SERIES Models**

Avtron 4000 SERIES Load Banks are available in the following configurations and can be customized to meet the needs of specific applications.

### SIGMA 2







**4100** | 50-150 kW

4500 | 200-500 kW





**4600** | 500-1250 kW

**4900** | 1000-2500 kW





**4800** | 400-3000 kW

**4950** | 3000-4000 kW

Follow the links to web page for each model.

(4)



### www.avtronpower.com

#### **Avtron Power Solutions**

6255 Halle Drive Cleveland, OH 44125, USA Tel: 216 573 7600 LBsales@ascopower.com Cliffe Road, Easton-on-the-Hill Stamford PE9 3NP, United Kingdom Tel: +44 (0) 1780 480033 LBsalesint@ascopower.com