



Avtron 7000 SERIES Resistive/Reactive Load Banks



avtronpower.com

AVTRON
POWER SOLUTIONS

Avtron 7000 SERIES Load Banks

Avtron 7000 SERIES load banks are resistive/reactive, reactive-only, or capacitive models for testing power supplies at non-unity power factors.

Featuring rugged, heavy-duty construction, 7000 SERIES load banks are designed for continuous use and are built to withstand the rigors of harsh industrial environments and varying climatic conditions.






All models are customized for each application and are available in a wide range of voltages and capacities. Remote manual control is standard. Digital controls are available when a networking, Modbus, or building management interface is required. 7000 SERIES load banks are suited for utilities, mission-critical, shipyards, equipment rental, factory testing, and renewable energy applications.



Model 7800 Load Bank

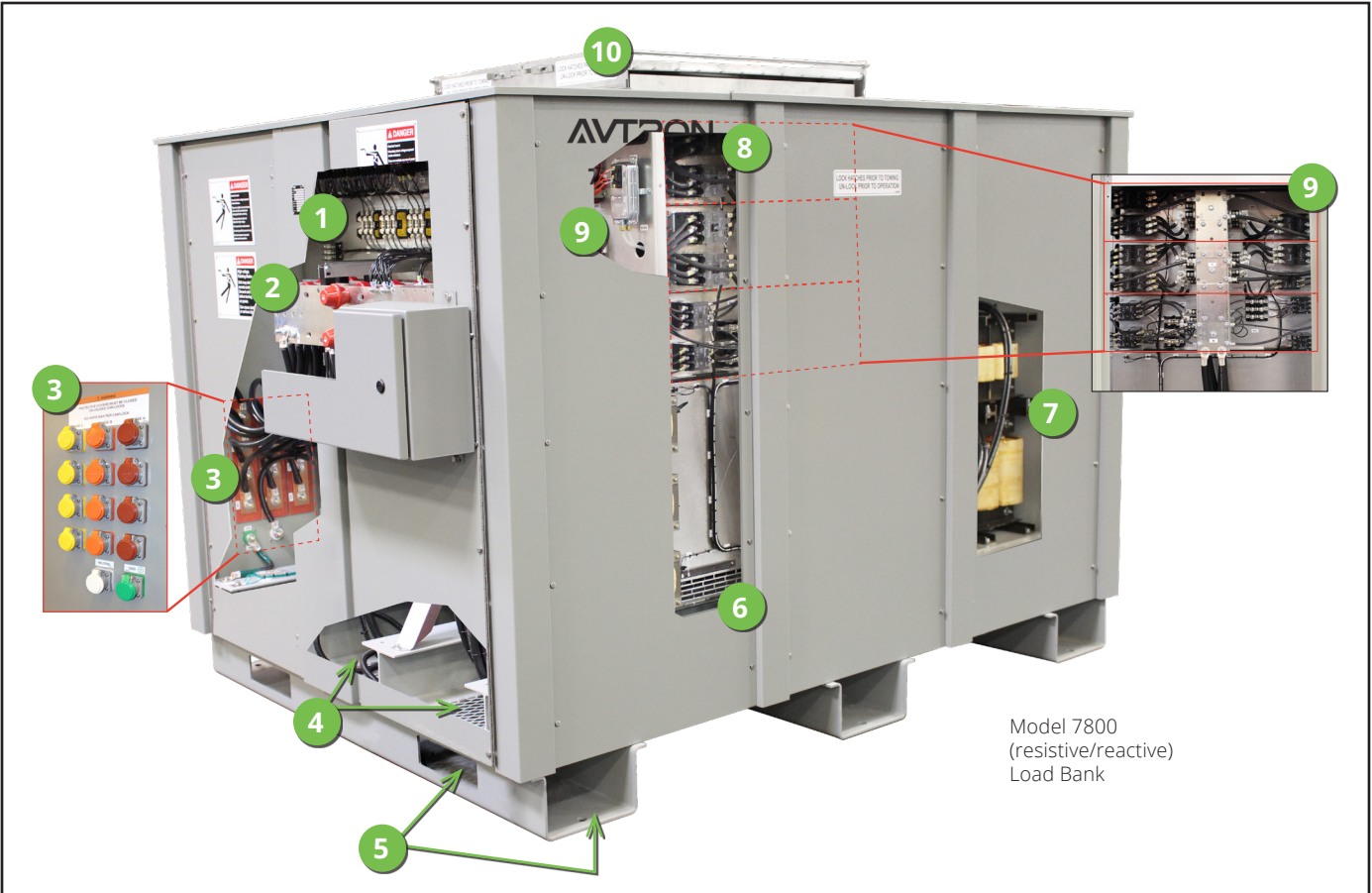
Product Knowledge

[Load Bank Overview Brochure](#)

-  Reactive Only
-  Capacitive Only
-  Combined Resistive/Reactive
-  Capacities from 375 to 6000kVA
-  Manual, PLC, Remote I/O, SIGMA 2 Controls

7000 SERIES Features

7000 SERIES load banks present unique features to provide reliable and accurate load testing for any applications.



Model 7800 (resistive/reactive) Load Bank

- 1** Branch Circuit Fuse Protection limits fault current and protects components during phase-to-phase or phase-to-ground shorts.
- 2** Input Bus Bars are the main landing area for incoming power cables.
- 3** Available Quick Connect Cable Receptacles allow for quick and safe load connection.
- 4** Conduit Input Area provides easy stub-up access to input bus bars.
- 5** Forklift Pockets provide easy transport and mounting.
- 6** Fan Assembly draws in cool air for circulation within the enclosure.
- 7** Reactors/Inductors feature iron core construction for low heat rise and minimum waveform distortion.
- 8** Avtron designs and manufactures Heli-dyne Resistor Elements to provide extended, reliable performance. Corrosion-resistant chromium alloy provides years of trouble-free service.
- 9** Differential Air Pressure Switch protects the unit by dropping applied load if proper cooling airflow is not detected.
- 10** Roof Top Discharge Area directs exhaust upward and outward.



The 7000 SERIES Load Banks test power sources at non-unity power factors.

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](#)

 [Application of Resistive/Reactive Load Banks for kVA Testing](#)

7000 SERIES Specifications

Model Name	Capacity	Frequencies Available (Hz)	Voltage Range	Ambient Temperature Range	Air Discharge Direction	Control Options	Optional Extras
7410	375-1875 kVAr	50, 60	480, 600	-20°F to 120°F	Vertical	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC, SIGMA2	Control Power Transformer, Digital Metering, Arctic Grade
7500	75-2000 kVAr(C)	50, 60	480	-20°F to 120°F	Side	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC, SIGMA2	Control Power Transformer, Digital Metering, Arctic Grade
7700	937.5-3125 kVA	50, 60	480, 600	-20°F to 120°F	Vertical	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC, SIGMA2	Control Power Transformer, Digital Metering, Arctic Grade
7900	2000-6250 kVA						
7800	105-750 kVA	50, 60, 400	115/200, 120/208, 208/416				

7000 SERIES Models

Avtron 7000 SERIES Load Banks are available in the following configurations and can be customized to meet the needs of specific applications.

Reactive



7410 | 315-1875 kVAr

Capacitive



7500 | 75-2000 kVAr(C)

Resistive/Reactive



7700 | 937.5-3125 kVA



7800 | 105-750 kVA



7900 | 2000-6250 kVA

Follow the links to web page for each model.



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