

ASCO® LOAD BANKS
7000 SERIES



AVTRON

ASCO®

7000 SERIES LOAD BANKS

ASCO Avtron 7000 SERIES load banks include resistive/reactive (7700, 7800, and 7900), reactive only (7400 and 7410), or capacitive only (7500) models. These units are intended for testing power sources at “other than unity” power factor. Based on rugged, heavy duty construction, the 7000 SERIES are designed for continuous use and are built to withstand the rigors of harsh industrial environments and varying climatic conditions.

All models can be customized for a specific application and are available with a wide voltage and capacity range. Each model in the 7000 SERIES has common design features which results in a proven reliable load bank, at a cost effective price. Remote manual control is standard on the 7000 SERIES. Digital control platforms are available as an option when networking, modbus, or building management system (BMS) interface is required.






Typical 7000 SERIES load bank applications include utilities, mission critical, ship yards, rental, OEM's, and renewable energy.

As well as the 7000 SERIES, an extensive range of other ASCO load bank SERIES are also available.

7000 SERIES MODELS

For more detailed technical specifications, please refer to the relevant model specific technical data sheet.

Model Name	Capacity	Frequencies Available (Hz)	Voltage Range	Ambient Temperature Range	Air Discharge Direction	Control Options	Optional Extras
7410	375-1875 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
7500	60-2000 kVA	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
7800	150-300 kVA	50, 60, 400	480	-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	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

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

TYPICAL CONTROL PLATFORMS



Remote Manual Control Panel shown.

Remote Manual Control: is the most common type of control for 7000 SERIES load banks. Control panel is 19" rack mount style with power on/off selection, master load on/off and individual load step switches. The manual control panel can be provided as a local panel mounted on unit or as a remote panel for installation in switch gear or on a wall (control panel enclosure required).

Pilot Relay/Remote I/O: allows the load bank to interface with existing customer control.

PLC Control: on board PLC will allow control and monitoring of load bank via customer provided programming.

SIGMA PLATFORM



SIGMA is a multi functional embedded load control system specifically designed for ASCO Avtron and ASCO Froment load banks. Flexible, Feature Rich, and Cost Effective it is best-in-class providing a solution for any application.

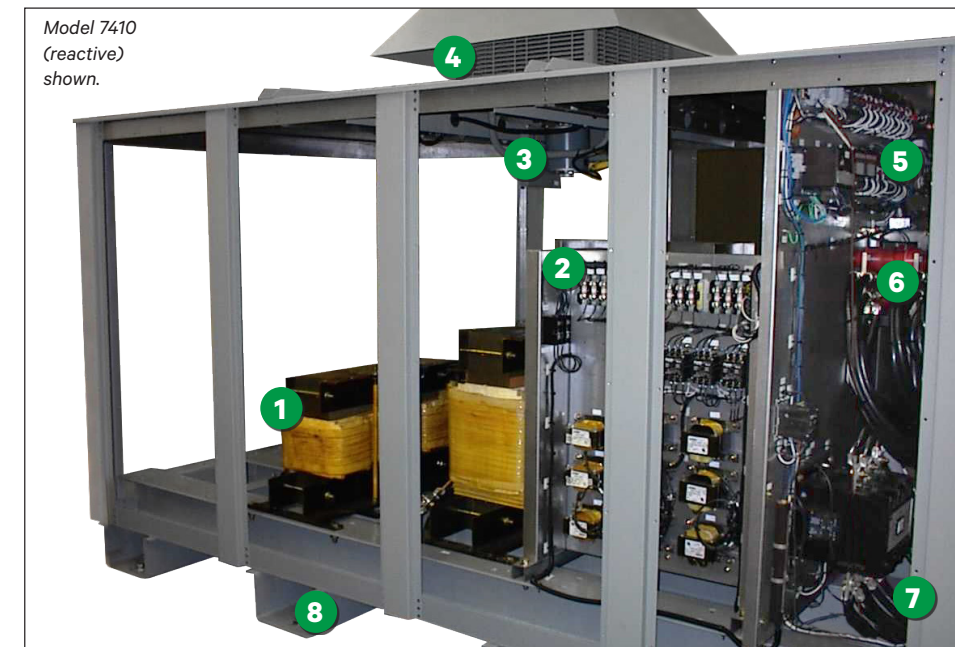
SIGMA gives intelligent, fast, user-friendly, accurate control and instrumentation with outstanding test features and data acquisition capabilities. It brings cost effective solutions to today's power testing requirements which require high level instrumentation, data capture and verification to ISO 8528. SIGMA has the ability to network multiple load banks and control from one hand-held or PC. Alternatively, integrate SIGMA with existing BMS, Modbus, or SCADA systems for unified site control. For more information please see our SIGMA control brochure.



Model 7900 installed on a trailer, 5000 kVA, 480V (on left).
Model 7410 installed in production facility, 750 kVA, 480V (above).

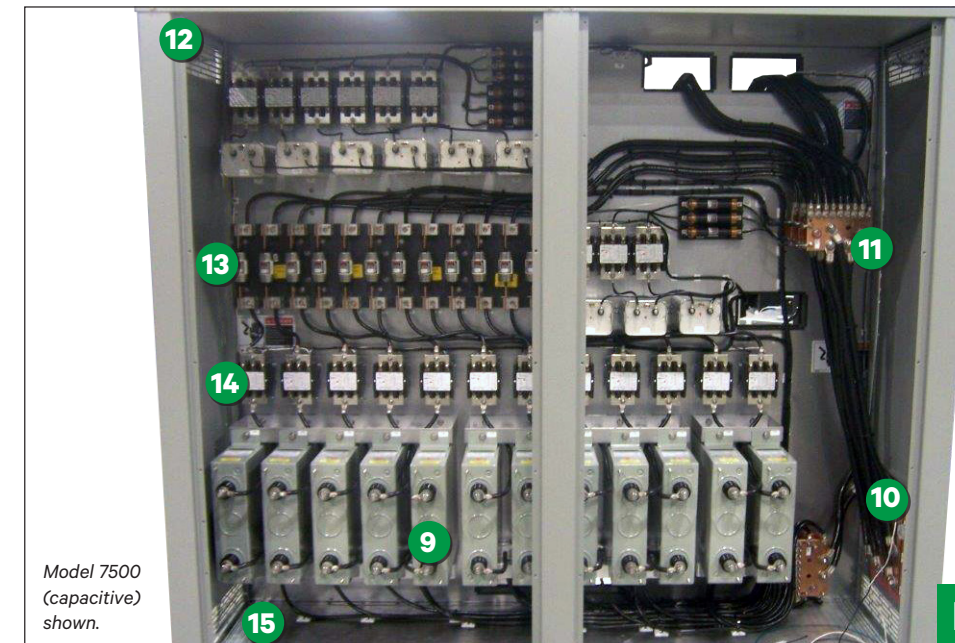
TECHNICAL FEATURES

7000 SERIES load banks are designed and manufactured with a number of unique technical features to provide reliable and accurate load testing for any application.



Model 7410 (reactive) shown.

- 1 Reactors/Inductors are iron core construction for low heat rise and minimum waveform distortion.
- 2 Branch Circuit Fuse Protection is provided to limit fault current and protect components in the unlikely event of a phase to phase or phase to ground short.
- 3 Fan Assembly draws in cool air for circulation within the enclosure.
- 4 Roof Top Discharge Area will direct air upward and outward.
- 5 Load Contactors are properly engineered to match the required load step value.
- 6 Input Bus Bars are the main landing area for incoming power cables.
- 7 Conduit Input Area is provided for easy stub up access to input bus bars.
- 8 Fork Lift Pockets are provided for easy transport and mounting.



Model 7500 (capacitive) shown.

- 9 Capacitors are industrial rated with dry type dielectric capacitors designed for very low capacity losses.
- 10 Load Power Inputs are standard bus bars. Optional quick disconnect receptacles are available.
- 11 Load Bus Bars are the main landing area for internal power cables.
- 12 Exhaust Air Out removes circulated air from enclosure.
- 13 Branch Circuit Fuse Protection is provided to limit fault current and protect components in the unlikely event of a phase to phase or phase to ground short.
- 14 Load Contactors are properly engineered to match the required load step value.
- 15 Cooling Air In draws in cool air for circulation within the enclosure.

**PROOF OF
POWER ANYWHERE**

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