

**ASCO® LOAD BANKS**  
1000 SERIES



**AVTRON**

**ASCO®**






# 1000 SERIES LOAD BANKS

ASCO Avtron 1000 SERIES load banks are radiator style resistive units for supplemental loading at unity power factor. Based on a rugged, heavy duty construction, 1000 SERIES are intended for continuous use and are built to withstand the rigors of varying installation conditions.

All models can be customized for a particular application and are available from 10-1500 kW with a wide voltage test range. Each model in the 1000 SERIES range has common design features which results in a proven reliable load bank at a cost effective price. Remote manual control is standard on the 1000 SERIES. Digital controls are available as an option when networking, modbus, or building management system (BMS) interface is required. Critical Power Management System (CPMS) interface is also available.

Typical 1000 SERIES load bank applications include mission critical, data centers, power generation, generator sets, and OEM's.

As well as the 1000 SERIES, an extensive range of other load bank SERIES are also available.

-  Resistive Only
-  Capacities from 10 - 1500 kW
-  Controls: Manual, Automatic Load Control, CPMS
-  Radiator, Duct-Mount

## 1000 SERIES MODELS

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

Model Name	Capacity (kW)	Frequencies Available (Hz)	Voltage Range (V)	Ambient Temperature Range	Hot Air Discharge Direction	Control Options	Optional Extras
1100	10-900	50, 60	208-600	-20°F to 120°F	Horizontal	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC, CPMS	Control Power Transformer, Digital Metering, Auto Load Control
1500	10-600	60	208-600	-20°F to 120°F	Horizontal	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC, CPMS	Control Power Transformer, Digital Metering, Auto Load Control
1900	1000-1500	50, 60	400-600	-20°F to 120°F	Horizontal	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC, CPMS	Control Power Transformer, Digital Metering, Auto Load Control

## TYPICAL CONTROL PLATFORMS



Remote Manual Control Panel shown.

**Remote Manual Control:** is the most common type of control for radiator style 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).

**Automatic Load Control (ALS):** is a common option that will automatically monitor a minimum load on the generator set. Options includes a loose current transformer (used to monitor facility load) and controller which is mounted in load bank.

**Critical Power Management System Interface (CPMS):** is available as an option. When selected, this option will allow the load bank to interface with ASCO® switchgear control and will provide full functionality and monitoring of the load bank.



Model 1900 shown.

## TECHNICAL FEATURES

1000 SERIES load banks are designed and manufactured with a number of unique technical features to provide reliable and accurate load testing for any application.

- 1** ASCO Avtron Helidyne Resistor Elements are designed and manufactured in house. They provide extended, reliable performance. These elements utilize a proprietary corrosion resistant chromium alloy and will provide years of trouble free service.
- 2** Control Circuits 120V, 1 Phase, 60 Hz required for load bank operation
- 3** Load Contactors are properly engineered to match the required load step value.
- 4** 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.
- 5** Load Cable Input Block are the main landing area for incoming power cables.
- 6** Ground Stud wired to the chassis.
- 7** Aluminized Steel Construction with Powder Coat Paint Finish are utilized for superior heat deflection and corrosion protection
- 8** Safety & Warning Labels are positioned across the unit to alert user prior to operation.
- 9** Outdoor Louver Exhaust (outdoor units only) will direct hot air downward and away from personnel.
- 10** Lifting Eyes are integral to load bank frame. Allows for quick installation on generator set radiator.



Model 1100 shown

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