

# ASCO® LOAD BANKS

9000 SERIES



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ASCO Avtron 9000 SERIES load banks are direct connect, medium voltage, outdoor rated resistive units for testing power sources at unity power factor. Based on a rugged, heavy duty construction, 9000 SERIES are intended for continuous use, and are built to withstand the rigors of varying climatic conditions.

All models can be customized for a particular application and are available from 500-7500 kW with a wide voltage test range. Each model in the 9000 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 9000 SERIES. Digital controls are available as an option when networking, modbus, or building management system (BMS) interface is required.

Typical 9000 SERIES load bank applications include utilities, mission critical, data centers, rental, OEM's, and renewable energy.

As well as the 9000 SERIES, an extensive range of other load bank SERIES are also available.



Resistive Only



Capacities from 500 - 7500 kW



Controls: Manual, PLC, Remote I/O



Permanent Medium Voltage Units

## 9000 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 (kV)	Ambient Temperature Range	Hot Air Discharge Direction	Control Options	Optional Extras
9100	3000-7000	50, 60, 50/60	5-15	-20°F to 120°F	Vertical	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC	Control Power Transformer, Digital Metering, Arctic Grade
9200	1000-3500	50, 60, 50/60	5-15	-20°F to 120°F	Vertical	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC	Control Power Transformer, Digital Metering, Arctic Grade
9700	3750-7500	50, 60, 50/60	5-15	-20°F to 120°F	Vertical	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC	Control Power Transformer, Digital Metering, Arctic Grade
9800	500-3000	50, 60, 50/60	5-15	-20°F to 120°F	Vertical	Remote, Local Manual Control, Pilot Relays, Remote I/O, PLC	Control Power Transformer, Digital Metering, Arctic Grade

## TYPICAL CONTROL PLATFORMS



Remote Manual Control Panel shown.

**Remote Manual Control:** is the most common type of control for medium voltage 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.

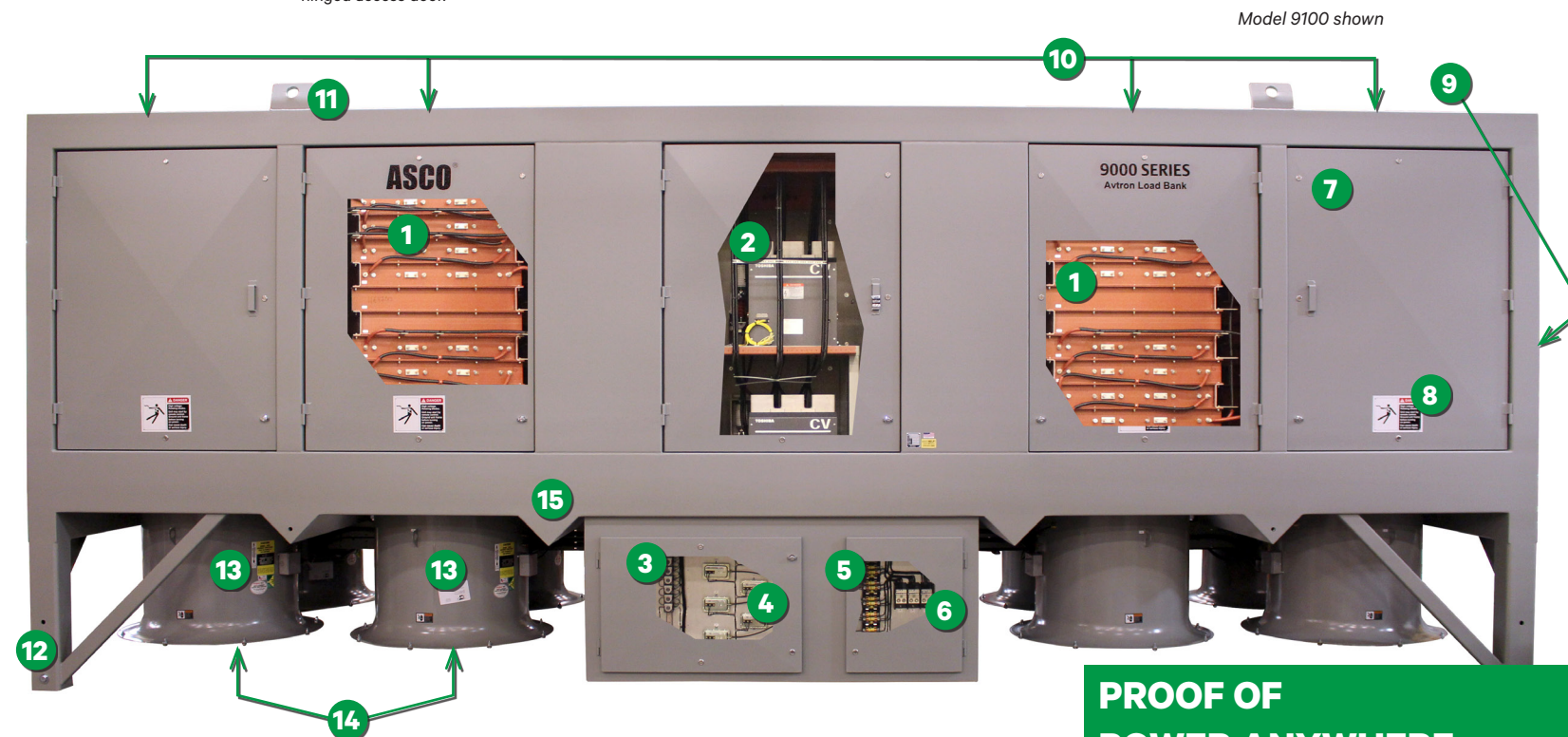


Multiple model 9100 shown.

## TECHNICAL FEATURES

9000 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 Medium Voltage Resistive Assembly resistors are custom designed and spaced for proper medium voltage operation.
- 2 Medium Voltage Contactor Area contains the continuous duty medium voltage contactors.
- 3 Over Temperature Protection will automatically drop applied load if an over temperature condition is detected.
- 4 Differential Air Pressure Switch provides unit protection by dropping applied load if cooling airflow is not detected.
- 5 Blower Motor Circuits are designed with fuse and overload protection
- 6 Blower Power Input Area is located behind hinged access door.
- 7 Hinged and Lockable Access Doors are provided for superior safety and environmental protection.
- 8 Safety & Warning Labels are positioned across the unit to alert user prior to operation.
- 9 Medium Voltage Cable Input allow easy access to input bus bars.
- 10 Exhaust Hoods (not shown) will direct hot air upward and away from personnel.
- 11 Lifting Cleats are provided for easy lifting via customer supplied spreader bars.
- 12 Extension Legs (not shown) are field installed and elevate the load bank upwards for proper airflow.
- 13 Cool Air Intake Blower Motors allows cool air intake and prevents foreign object damage.
- 14 Cool Air Intake Screens prevents foreign objects from being ingested.
- 15 Steel Construction with Industrial Grade Paint Finish is utilized for superior heat deflection and corrosion protection



Model 9100 shown

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