

Overview

- Rental Duty Portable Load Bank
- 2250kvar Inductive
- Configurable for 480v or 600v
- Digital Load Control
- Capable of Parallel Operation and Control to Form Large Systems
- Use with resistive load bank to obtain 0.8 p.f.

Description

The Simplex Inductive Load Ranger-R is a very large capacity, fully portable, inductive Load Bank System intended for use with the resistive Load Ranger-R or Saturn-R for 0.8 p.f. testing. The Inductive Load Ranger-R is rated 2250kvar and is configurable at the Rental Center for operation at 480v or 600v. The Inductive Load Ranger-R is typically used to test large diesel generators, turbines, paralleled generators and shipboard generators.

With a purpose-built design consisting of rugged, all-welded, monolithic steel frame, heavy gauge steel sides, guarded hinged doors, power-operated ventilation louvers, the Inductive Load Ranger-R is far superior to designs which use refurbished and modified ISO shipping containers. Multi-sided access allows ready service of all components and facilitates the ultra-compact design.

Compact and easily transportable, the Inductive Load Ranger-R is ideal for rental use. With a footprint of only 8 x 10 feet and a height of less than 8 feet, the Inductive Load Ranger-R is easily transportable by drop-deck flat bed trailer. Lifting eyes and forklift channels simplify site movement.

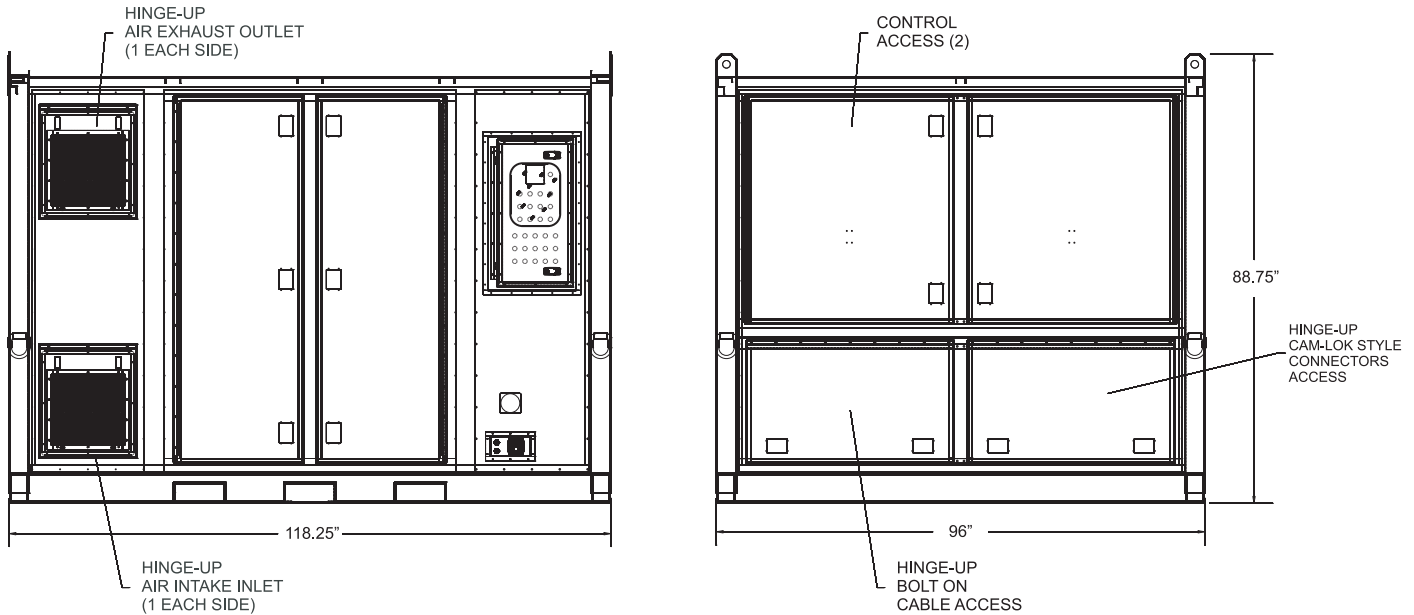
The Inductive Load Ranger-R utilizes digital load control for direct access of load values, block transitions, and user programmable automation. The Inductive Load Ranger-R networks to the resistive Load Ranger-R for single point control.

The Simplex Inductive Load Ranger-R represents the ultimate technology in large generator load testing performance. They can be digitally networked to the resistive Load Rangers for single point control.



CAPACITY:	2250kvar, inductive
VOLTAGE:	Rental Center Configurable: 480v, 600v, 3-phase, 60 Hertz
FREQUENCY:	60 Hertz, 50 Hertz at reduced voltage
LOAD STEPS:	Digital load control, 3.75 kvar resolution
DUTY CYCLE:	Continuous
AMBIENT TEMP.:	125°F
EXHAUST RISE:	60°F
AIRFLOW:	Approx 1,000 cfm
CONTROL POWER:	Internal, derived from power source under load. Rental Center Configurable: 480v, 600v, 3-phase, 60 Hertz. Control circuits at 120v via internal isolation transformer. Control power load: 3.0 kva, 6.25A.

Dimensions and Key Features

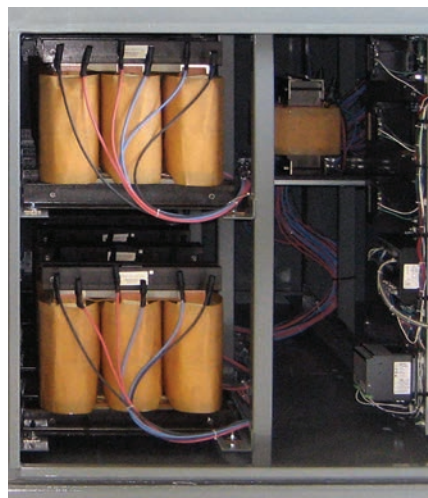


The Load Bank is a completely self-contained, freestanding unit which includes all inductive load elements, load control devices, load element branch circuit fuse protection, main load bus and terminals, cooling system, control power supply, unit controller and malfunction detection system.

System Protection

Sensors, alarms (alarm message on operator interface terminal), lock-outs as appropriate, for the following:

- Fan failure, each of two fans
- High exhaust temperature
- High intake temperature
- High interior temperature
- Louver open/closed



Load Elements

Inductive elements: Non-saturable, air-gap type, iron-core power inductors. 5% tolerance, 1% waveform distortion, 0.05 power factor, 150°C rise, 220°C insulation.

Power Connection

Bolt on bus bar and cam-lock style connectors behind hinge-up access door.

Cooling

Forced air, ducted blowers.

Enclosure

Type 3R control section; Type 3R power section. Epoxy primed, polyurethane finish coating, dark gray and transport, storage D-rings. Lifting eyes, forklift channels, hinged, lockable, access doors with flush latches.