



# GeneratorJoe

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## RESISTIVE REACTIVE LOAD BANK

3750-6250 KVA

### MODEL LCV



Remote Hand Held Controller

QUALITY SYSTEM CERTIFIED TO  
**ISO 9001**

- Highest Capacity in the Industry
- Provides Resistive & Reactive Loading
- Rugged ISO Style Container
- PLC Based Load Control
- Local and Remote Load Control
- Easy Interconnection and Operation

**T**he Avtron Model LCV load bank is designed to provide high capacity resistive and reactive loading of AC power systems such as diesel generator sets, turbines, or Uninterruptible Power Supplies (UPS). Many specifications and local codes demand that such testing be performed at less than unity power factor, typically 0.8 p.f. lagging.

To achieve a 0.8 power factor, the LCV load bank combines resistive load (KW) with reactive load (KVAR). This combination provides a true test of the actual generator or UPS nameplate rating (KVA) and simulates a "real-world" load.

The Avtron Model LCV incorporates state-of-the-art load bank design features with the highest capacity in the industry (20' container). The resistor elements, iron-core reactors, blowers, and controls are all manufactured from the highest quality components available.

*The Model LCV load bank is ideal for high power resistive and reactive testing of AC generating systems in factory production lines or in the field after installation.*

*For complete information on all Avtron load banks and assistance in selecting the right load bank for your application, contact your Avtron sales representative at (216) 573-7600.*

## LCV LOAD CAPACITY RATINGS

Total Load KVA @ 0.8 p.f.	Resistive Load KW	Reactive Load KVAR	Minimum Load Step Resolution
3750	3000	2250	25 KW, 18.75 KVAR
5000	4000	3000	25 KW, 18.75 KVAR
6250	5000	3750	25 KW, 18.75 KVAR

Standard voltage is 480 VAC, 3-Phase, 60 Hz. Other voltages and frequencies are available – consult factory.

## LCV LOAD BANK SPECIFICATIONS

**CONSTRUCTION:** The load bank consists of a rugged ISO style container housing the resistive and reactive components, blowers, associated controls, and interconnections. The container features air intakes on the sides of the container with vertical exhaust through the roof.

**RESISTOR ELEMENTS:** The resistive elements are manufactured from corrosion resistant chromium alloy wire and are fully supported on stainless steel rods for long life.

**REACTIVE ELEMENTS:** The reactive elements are of non-saturating single and three-phase iron-core construction impregnated with high dielectric varnish.

**CONTROL POWER:** 120 VAC, 1-Phase, 60 Hz provided by an integral control power transformer.

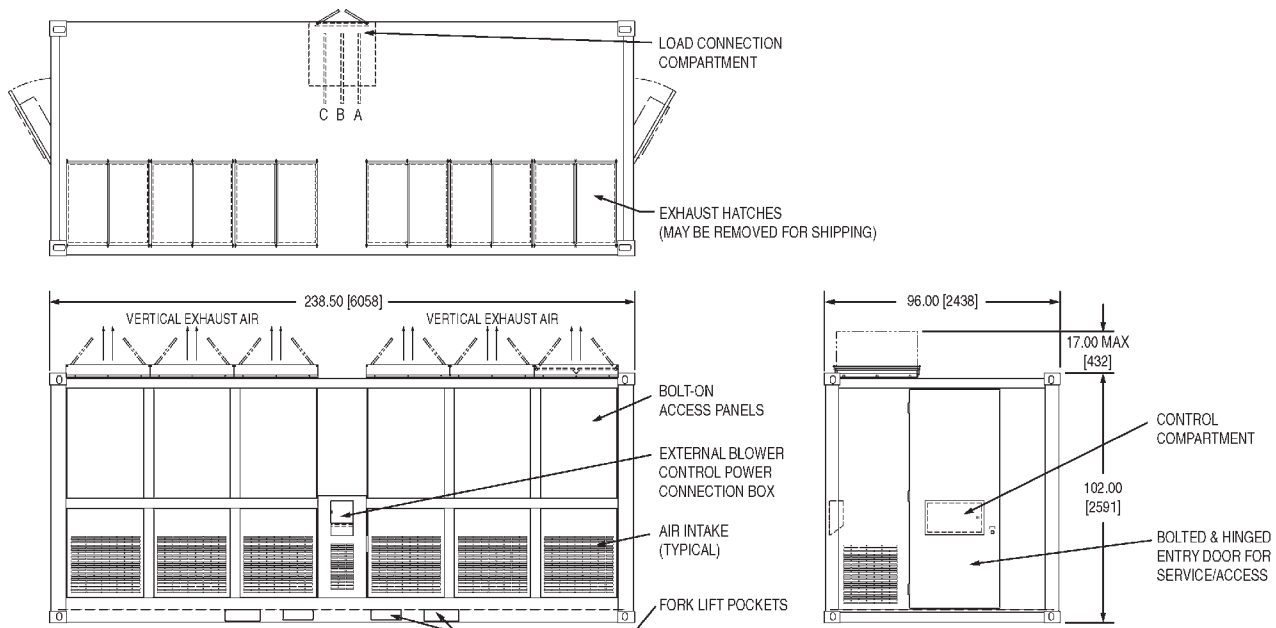
**METERING:** Digital metering with data logging is provided to measure voltage, current, frequency, KW, KVAR, and power factor.

**COOLING:** The resistive elements are cooled by integrally mounted blower motors each rated 10 HP, 460 VAC, 3-Phase, 60 Hz.

**CONTROLS:** The LCV Load Bank features both local and remote load control. The remote hand held controller is rugged and compact (7"x7"x2"). The controller is easy to operate and load values are activated by pressing a membrane style keypad. All resistive and reactive functions are displayed on a LCD display. A hard wired E-Stop push button is also provided. The remote controller communicates with the Load Bank PLC via 200 feet of control cable in (2) 100' increments with MS style connectors.

**PROTECTION:** The LCV Load Bank features branch circuit fusing on all load steps and overtemperature protection. Air switches on the blowers are electrically interlocked to remove load if the airflow is not sufficient to provide proper cooling.

**WEIGHT:** 3750 KVA: 28,600 [13,000 kg]  
5000 KVA: 32,700 [14,800 kg]  
6250 KVA: 36,300 [16,500 kg]



All dimensions are in inches. [millimeters]  
Specifications subject to change without notice.  
Printed in U.S.A. Rev. B



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