AVTRON LOADBANK, INC.
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REACTIVE LOAD BANK

375 - 1875 KVAR

- Suitable for Indoor or Outdoor Installation
- Designed for Continuous Operation
- Reactive KVAR Matches Resistive KW at 0.8 Power Factor
- Remote Operator Controls
- Non-Saturating Single Phase and 3-Phase Iron Core Reactors

MODEL K841B

QUALITY SYSTEM CERTIFIED TO ISO 9001

The Avtron Model K841B is designed to be used in combination with resistive load banks to provide loading of AC power sources at less than unity power factor. Made available with a wide range of load capacities, the K841B can accommodate a variety of testing requirements.

Application: An inductive/reactive load bank is intended to be used in conjunction with a resistive load bank to test a generator or power source at 0.8 power factor (lagging). To achieve a 0.8 power factor, the reactive load bank should be sized at 75% of the resistive load bank KW rating. The resistive and reactive load banks are connected and operated in parallel.

The load bank contains single phase and three phase iron core reactors and a blower motor housed in a rigid structure of formed heavy gauge steel. Designed for indoor or outdoor installation, the K841B is equipped with inlet screens between the structural members in the bottom of the unit. Channels provided in the base structure facilitate handling by fork lift truck from all four directions.

Units are available in standard sizes of 375, 450, 600, 750, 900, 1125, 1500, and 1875 KVAR with load steps ranging from 3.75 to 375 KVAR. Standard voltage ratings are 480 Volts, 3-phase, 60 Hz and dual voltage units of 240/480 Volts.

K841B units designed for 480 Volts, 60 Hz operation may be operated at 380-415 Volts, 50 Hz, with load steps derated at approximately 86% of the rated KVAR load steps.

A standard 19" rack mounted control panel is provided and is available with an optional enclosure. The control circuit and cooling fan power is 120 Volts, single phase, 60 Hz.

The K841B is used to test diesel generator sets, Uninterruptible Power Supplies (UPS), and other AC power sources that require testing at less than 1.0 power factor.

Avtron's extensive line of Load Bank and Industrial Resistor Products are solid performers used throughout the world.

For total technical support or additional information, please contact Avtron at (216) 573-7600 or LBsales@avtron.com.

K841B LOAD CAPACITY RATINGS

Capacity Available	375 to 1875 KVAR
Voltages (AC)	480 or 240/480 Volt AC, 3 Phase, 60 Hz
Frequency	50/60 Hz (Reduced Voltage and Capacity at 50 Hz)
Load Step Resolution	0-3.75, 3.75, 37.5, or 375 KVAR

Note: Designs for International 50/60 Hertz Design Voltages are also available.

K841B SPECIFICATIONS

CONSTRUCTION: Heavy-gauge steel enclosure provides a rigid structure with removable aluminized steel panels for interior access. The base of the unit features fork lift channels for simplified handling.

COOLING: The K841B contains a cooling fan to aid the convection cooled reactors. The cooling fan requires a power source of 120 volts, single phase, 60 hertz.

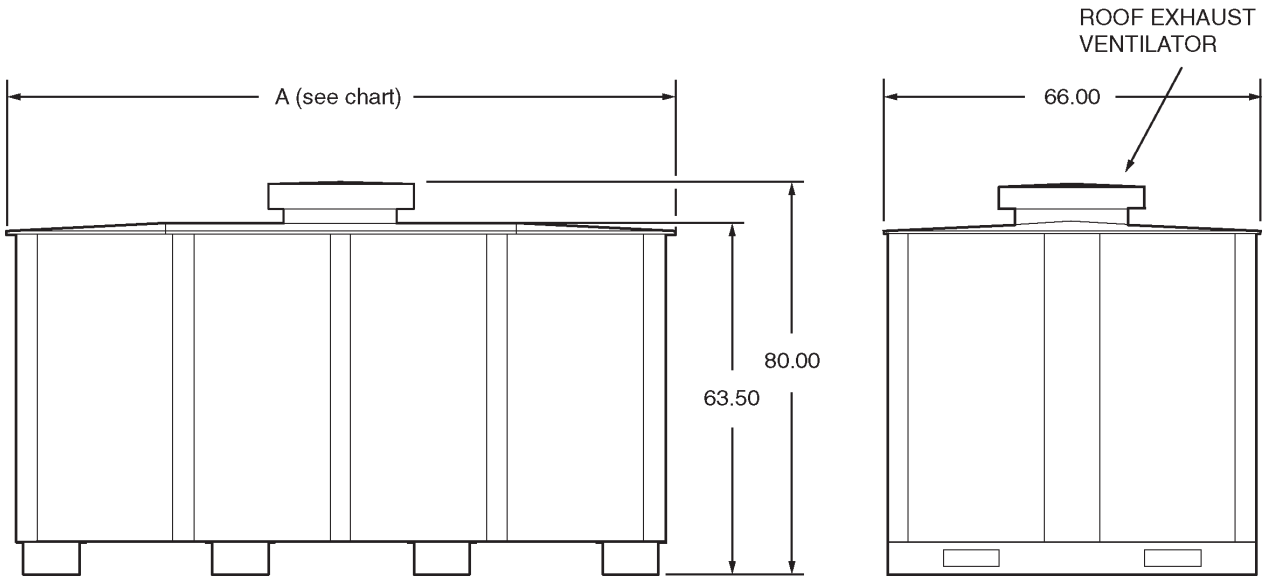
CONTROLS: The K841B control circuit requires 120 volts, single phase, 60 hertz power. The standard 19" rack mount control panel includes a POWER ON-OFF switch, BLOWER ON-OFF switch, a POWER ON light, a MASTER LOAD ON-OFF switch, a VOLTAGE SELECTOR switch (if applicable), and individual load step toggle switches.

REACTORS: Single and 3-phase iron core reactors are designed for 130°C rise in a 50°C environment with a maximum of 5% waveform distortion and 0.05 power factor.

PROTECTION: Each load step is fused using UL class T fuses with 200,000 AIC rating. Each 3-phase reactor contains a normally closed thermal switch in each coil. The load bank enclosure is equipped with thermal switches. All thermal switches are interconnected with the load application control circuit.

OPTIONS:

- 480 or 240/480 to 120 Volt Control Transformer
- Under-Frequency Protection
- Over-Voltage Protection
- Remote Control Panel Enclosure (NEMA 12)
- Control Panel Mounted on Load Bank



KVAR	"A"	Approximate Weight
375-750 (Single Voltage)	89.00	7500 lbs
375-750 (Dual Voltage)	116.00	8500 lbs
900-1125	116.00	9000 lbs
1500-1875	144.00	10000 lbs

All dimensions are in inches.
Specifications subject to change without notice.
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