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# REACTIVE LOAD BANK

375 TO 1500 KVAR

- Suitable for Indoor or Outdoor Installation
- Designed for Continuous Operation
- Load Step Resolution Sized to Match Resistive Load Bank Steps to Obtain 0.8 Power Factor
- Remote Control Panel with Optional Enclosure
- Non-Saturating Single Phase and 3-Phase Iron Core Reactors

## MODEL K841B



**ISO9001**  
QUALITY SYSTEM CERTIFIED

**T**he 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.

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, and 1500 KVAR with load steps ranging from 3.75 to 375 KVAR. Standard voltage ratings are 480 volts, 3-phase, 60 hertz and dual voltage units of 240/480 volts.

K841B units designed for 480 volts, 60 hertz operation may be operated at 380-415 volts, 50 hertz, with load steps derated at approximately 86 percent 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 hertz.

***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.***

***For complete assistance in selecting a load bank – resistive, reactive, AC, DC, portable or fixed mount – please contact your Avtron sales representative at (216) 641-8310.***

## K841B LOAD CAPACITY RATINGS

<b>Capacity Available</b>	375 to 1500 KVAR
<b>Voltages (AC)</b>	480 or 240/480 (Other Voltages and Frequencies Available – Consult Factory)
<b>Frequency</b>	50/60 Hertz (Reduced Voltage and Capacity at 50 Hertz)
<b>Load Step Resolution</b>	0-3.75, 3.75, 37.5, 375 KVAR (Depending on Capacity)

### 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.

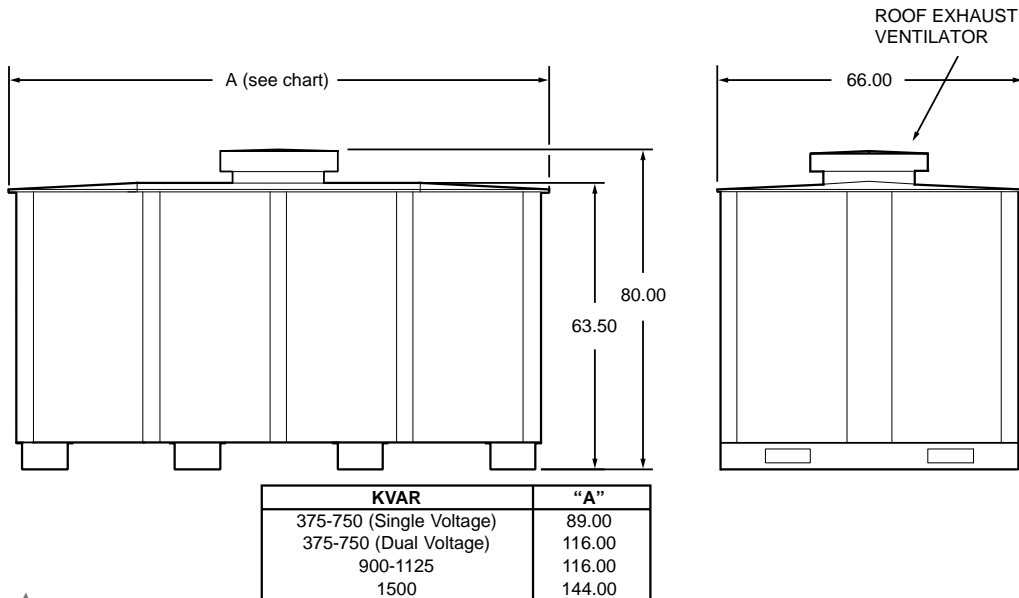
**REACTORS:** Single and 3-phase iron core reactors are designed for 130°C rise in a 50°C environment with a

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



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