

ULB RESISTIVE/REACTIVE LOAD BANK

The ULB RL Series

is a state-of-the-art, high-capacity Resistive/Reactive load bank system intended for testing and routine maintenance of stand-by generators, UPS, or other AC power sources. Designed for outdoor installation, the load bank features vertical hot-air discharge. Both the resistive and reactive sections are housed in the same cabinet (in separate sections), eliminating the need for installing completely separate resistive and reactive load banks. The load bank is digitally controlled via an on-board PLC with color touchscreen display and includes standard digital monitoring with test data capture to a USB drive.

Resistive/Reactive load banks are specified when 0.80 power factor testing is required. Typical ratings are:

1500 KVA at 0.80 pf, 1200 KW RESISTIVE, 900 KVAR REACTIVE
1250 KVA at 0.80 pf, 1000 KW RESISTIVE, 750 KVAR REACTIVE
625 KVA at 0.80 pf, 500 KW RESISTIVE, 375 KVAR REACTIVE

The load bank enclosure is rated NEMA-3R and is suitable for permanent outdoor installation. The cabinet is constructed of heavy gauge steel with a durable polyester powder coat finish. The cabinet has hinged access doors with lockable latches. Cooling air is drawn in from the screened intake sides and the hot air exhaust is directed vertically upward through a stainless steel screen on top. Forklift channels are included in the base for easy positioning and placement. The load bank incoming power connections are made inside the main cabinet directly to copper bus bars.

ULB's proprietary resistor load elements provide the necessary power loading for each individual resistive load step. The resistors are constructed from precision nickel-chromium resistance alloy and are fully supported within the air stream by stainless steel rods which are insulated with high-temperature refractory ceramics. The load bank reactor elements are ULB non-saturating, VPI type, iron core reactors, designed for 150°C rise, 220°C insulation with a maximum of 2% waveform distortion. Heavy-duty, PLC controlled magnetic contactors provide load application of both the resistive and reactive load steps.

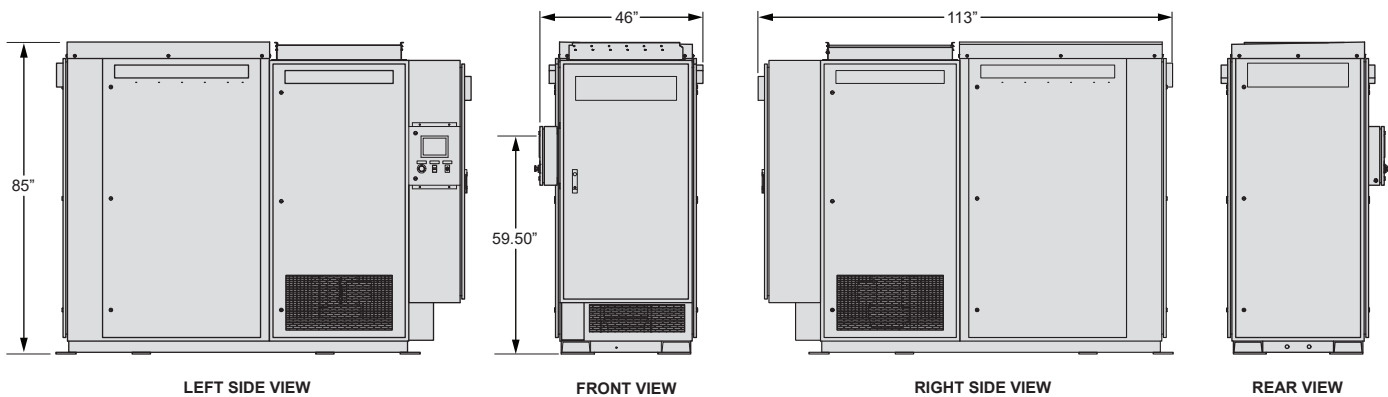


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DIMENSIONS



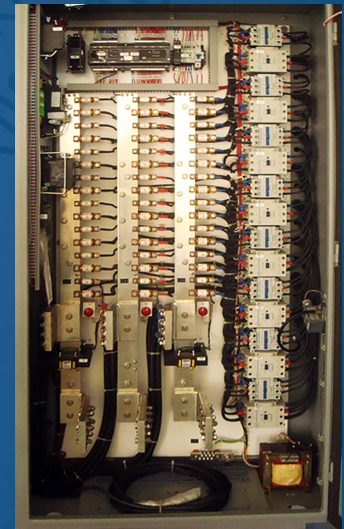
The load bank resistor elements are forced-air cooled with a heavy-duty, three-phase, TEFC electric blower motor with a high-performance direct-drive fan blade. The blower motor can be powered from the main input load bus (test source) or optionally from an external three-phase supply source. Motor starter circuit is fuse protected and includes an overload relay. The reactors have supplemental cooling by internal 120 VAC blowers powered from the main control circuit.

STANDARD DIGITAL LOAD CONTROLS

The load bank is digitally controlled via an on-board PLC with color touchscreen display and includes standard data monitoring (Voltage, Current, KW, KVAR, Power Factor and Frequency) with test data capture to a USB drive. Multiple load banks can be daisy-chained together and run from a single controller for higher capacity testing. The digital controller includes a wide range of safety circuits including cooling-air loss, over-temp, over-voltage/under-voltage, and load dump. All load is automatically removed and locked-out in the event of a safety circuit trip. A hard-wired Emergency Stop switch is also included.

This model is the new industry standard for high-capacity Resistive/Reactive permanently mounted load banks and is backed by years of expertise in load banks.

Since 1969, ULB Management and technical team have been manufacturing test equipment for the aerospace, airline, aircraft MRO, military, industrial, agricultural, and automotive industries. Established in 2016 as the load bank division of a leading test equipment company, ULB offers a complete line of load banks for the commercial market.



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