

Mobile AC Dielectric Test Sets

Aerial Lift, Elevated Platform, Insulated Boom Testing



Testing Applications

- Ideal for testing aerial lift devices and elevated platforms
- Capable of testing double and horseshoe liners (BK130/36)
- Complies with latest ANSI and IEC standards (A92.2-2015 / IEC 61057)
- Suitable for common dielectric and insulation testing requirements

Models Available

- BK130/36
 - BK130/36-B
 - BK300
- **Lightweight** and **ruggedly constructed** for years of field use
 - **Simple set-up** and **operation**
 - **Traceable Calibration** to **NRC** (National Research Council Canada)
 - Models available with **easy to read digital meters** or a **full-color touch screen** with data acquisition
 - **ISO17025 Calibration & Uncertainty Analysis** available



Model BK130/36



Model BK300



Specifications are subject to change without notice.

Brochure No. **60210**

Description

Phenix Technologies offers a rugged, portable line of AC high voltage equipment for dielectric testing of aerial lift platforms and trucks. These units provide a complete testing solution in one convenient package. The standard safety features combined with advanced metering make the Phenix line of aerial lift high voltage test systems the premium choice for testing single trucks to maintaining a whole fleet.

The precision metering equipped with guard circuits to eliminate stray leakage currents ensures only boom

leakage is measured. Standard safety features include a zero start interlock, adjustable output overload circuit and short and long term thermal magnetic protection. The unit uses reactive compensation to reduce input power.

The oil-filled high voltage section is built in a rugged, fiber-glass reinforced sealed vessel which is light weight and durable for years of field use.



Model BK130/36



Model BK130/36-B

BK130/36 – Design & Safety Features

- Main power circuit breaker switch (with indicator)
- External warning circuit provision for safety devices such as flashing light
- High Voltage ON/OFF pushbuttons with indicators
- Emergency Off pushbutton (Locking)
- Manual control of output voltage
- Zero Start interlock
- External interlock provision
- Overload circuit adjustable from 10% to 110% of rated current
- Output overload indicator with reset button
- Slow and fast acting transient protection on all meters and relays
- Digital, LCD, multi-range metering
- Digital timer with audible alarm
- Guard mode for accurate current measurements

ACCESSORIES INCLUDED

- User guide
- Calibration Certificate

Environmental Operating Conditions

- 10-40°C, indoor/outdoor in fair weather
- Humidity <95% non-condensing
- Altitude <3300 ft (1000 meters)

“B” Models – Design & Safety Features

- Main power circuit breaker switch
- External warning circuit provision for safety devices such as flashing light
- High Voltage ON/OFF buttons with indicators
- Emergency Off pushbutton (Locking)
- Automatic voltage control or manual voltage control via infinity dial
- USB port for data acquisition via USB drive
- Ethernet port for accessing the control from PC, Model BK300 only (Requires optional software)
- WiFi control from PC, Model BK130/36-B (Requires optional software)
- Auto-ranging meters for total current and return current
- 7” Full-color touch-screen display

HMI displays metering, various controls, and system messages

- Breakdown memory voltmeter
- Maximum voltage reached memory voltmeter
- Duration and Dwell timers
- Zero Start interlock
- Adjustable rate of rise in Volts/seconds
- Adjustable overcurrent trip point
- Output overload indication with reset

| | MODEL | BK130/36 or BK130/36-B | BK300 |
|--------------------------------|-----------------------|---|--|
| INPUT | Voltage/Current | 110-120 V, 30 A 220-240 V, 15 A | 208-240 V, 60 A |
| | Frequency | 50/60 Hz | 50/60 Hz |
| OUTPUT | Voltage/Current | ≈ 0-36 kV, 180 mA ≈ 0-130 kV, 50 mA | 0-300 kV, 60 mA |
| DUTY CYCLES | | 5 min ON/15 min OFF, 50 mA/180 mA 1 hr ON/1 hr OFF, 33.3 mA/120 mA | 5 min ON/30 min OFF, 60 mA |
| | | Continuous, 25 mA/90 mA | |
| | | | |
| METERING | Accuracy | 0.8% Reading + 0.2% of range | 0.8% Reading + 0.2% of range |
| | Voltmeter Range(s) | 36/130 kV | 0-300.0kV |
| | Currentmeter Range(s) | 0-200 μA/2 mA/ 20 mA/200 mA | 0-60 mA, 0-300 μA |
| PD | | <3 pC at 100 kV (optional measurement) | <15 pC at 300 kV |
| CABLES INCLUDED | Input Power | 30' (9 m) | Optional |
| | Power Interconnect | 20' (6 m) | Optional |
| | Meter Interconnect | 20' (6 m) | 20' (6 m) |
| | Ground | 20' (6 m) (qty. 2) | 30' (9 m) |
| | Return | 20' (6 m) | 30' (9 m) |
| DIMENSIONS/ WEIGHT (approx) | CONTROLS | 21.5" L x 17" W x 14" H, 49 lbs 546 x 432 x 356 mm, 22 kgs | 32" L x 23" W x 68" H, 550 lbs 813 x 584 x 1727 mm, 250 kgs |
| | HV TANK | 16" D x 30" H, 178 lbs 406 x 762 mm, 81 kgs | 30" D x 89" H, 1800 lbs. 762 x 2260 mm, 816 kgs |
| | CART | 22.5" L x 29.25" W x 50" H, 70 lbs 572 x 743 x 1270 mm, 32 kgs | N/A |
| | SHIPPING SIZE | 33" L x 26" W x 55" H, 344 lbs 864 x 686 x 1422 mm, 157 kgs | Consult Factory |

Quick Reference Capabilities per ANSI A92.2-2015 standard (IEC/ISO similar)

Category A&B Devices Periodic Test

| | |
|-----------------------------|-----------------|
| 46 kV & Below Voltage Class | BK130/36, BK300 |
| 69 kV Voltage Class | BK130/36, BK300 |
| 138 kV Voltage Class | BK130/36, BK300 |
| 230 kV Voltage Class | BK300 |
| 345 kV Voltage Class | BK300 |

Category C, D, & E Devices Periodic Test

| | |
|-----------------------------|-----------------|
| 46 kV & Below Voltage Class | BK130/36, BK300 |
|-----------------------------|-----------------|

Insulating Aerial Ladders & Insulating Aerial Vertical Towers Periodic Test

| | |
|---------------|-----------------|
| 46 kV & Below | BK130/36, BK300 |
| 20 kV & Below | BK130/36, BK300 |

Category A&B Devices 50/60 Hz Qualification Test

| | |
|-----------------------------|-----------------|
| 46 kV & Below Voltage Class | BK130/36, BK300 |
| 69 kV Voltage Class | BK130/36, BK300 |
| 138 kV Voltage Class | BK130/36, BK300 |
| 230 kV Voltage Class | BK130/36, BK300 |
| 345 kV Voltage Class | BK300 |

Category A&B Devices 50/60 Hz 2 Second Withstand Test

| | |
|-----------------------------|-----------------|
| 46 kV & Below Voltage Class | BK130/36, BK300 |
| 69 kV Voltage Class | BK130/36, BK300 |
| 138 kV Voltage Class | BK300 |

Category A&B Double Rated Voltage Test

| | |
|-----------------------------|-----------------|
| 46 kV & Below Voltage Class | BK130/36, BK300 |
| 69 kV Voltage Class | BK130/36, BK300 |
| 138 kV Voltage Class | BK300 |
| 230 kV Voltage Class | BK300 |

Category C Qualification Test

| | |
|-----------------------------|-----------------|
| 46 kV & Below Voltage Class | BK130/36, BK300 |
|-----------------------------|-----------------|

Insulating Aerial Ladders & Insulating Aerial Vertical Towers Qualification Test

| | |
|---------------|-----------------|
| 46 kV & Below | BK130/36, BK300 |
| 20 kV & Below | BK130/36, BK300 |

Options

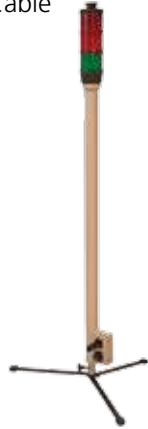
➤ Accessory Package

- 1 HV Output Cable, 50' (15 m)
- 1 Return Cable, 50' (15 m)
- 1 Shielded Return Cable, 50' (15 m)
- 3 Jumper Leads, 5' (1.5 m)
- 1 Foot Switch, 30' (9 m) or 50' (15 m) Lead (Hand Switch also available)
- 8 Insulating Pads 2' x 2' x 3/8" (609 mm x 609 mm x 9.5 mm)
- 1 Copy of A92.2 Standard (latest revision)



➤ Flashing Light, Mounted or Stand-alone

- Flashing Light, Mounted, Telescoping Pole
- Flashing Light with Security Circuit, magnetic base
- Red/Green Light, Folding Base, Security Circuit, E-stop, 20' (6 m) Cable



➤ Safety Foot Switch with 20' (6 m) lead



➤ Safety Hand Switch with 10' (3 m) lead

For Model BK130/36 Only

- Upgrade to Heavy-duty Cart
- Aluminum Transformer Cover



➤ Low Voltage Line Filters



➤ Vinyl Cover



➤ Ground Stick



- PD Test Certification
- Calibration Data, NRC
- ISO17025 calibration

For "B" models Only

- Windows software for connection to PC
- Fiber Optic communications for lab use (Model BK300 only)

➤ Lift Kit for HV Tank



For Model BK300 Only

➤ Casters



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Compliant