



Mobile AC Dielectric Test Sets

Aerial Lift, Elevated Platform, Insulated Boom Testing

- Lightweight and ruggedly constructed for years of field use
- Units feature easy to read digital instrumentation and clean, efficient controls
- Simple set-up and operation

Model BK130/36



TESTING APPLICATIONS

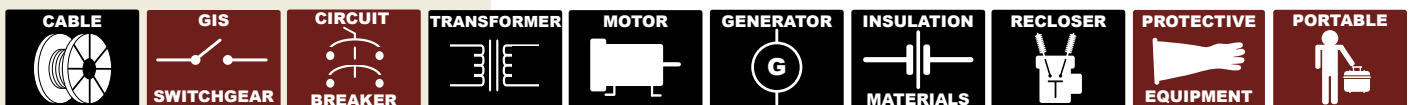
- Ideal for testing aerial lift devices and elevated platforms
- Capable of testing double and horseshoe liners (BK130/36)
- Complies with latest ANSI and IEC standards (A92.2 / IEC 61813)
- Suitable for common dielectric and insulation testing requirements



Model BK60



Model BK180



Specifications are subject to change without notice.

Brochure No. 60208

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 BK line of test equipment starts with the model BK130/36 which has the capability to test booms and liners to the boom only test equipment which is covered by models BK60 and BK180.

The precision digital metering equipped with a guard circuit 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 oil-filled high voltage section is built in a rugged, fiberglass reinforced insulating tank which is light weight and durable for years of field use.

QUICK REFERENCE CAPABILITIES

per ANSI A92.2 standard
(IEC/ISO similar)

Category A&B Devices Periodic Test

| | |
|-----------------------------|-----------------------|
| 46 kV & Below Voltage Class | BK60, BK130/36, BK180 |
| 69 kV Voltage Class | BK60, BK130/36, BK180 |
| 138 kV Voltage Class | BK130/36, BK180 |

Category C Devices Periodic Test

| | |
|-----------------------------|-----------------------|
| 46 kV & Below Voltage Class | BK60, BK130/36, BK180 |
|-----------------------------|-----------------------|

Insulating Aerial Ladders & Insulating Aerial Vertical Towers Periodic Test

| | |
|---------------|-----------------------|
| 46 kV & Below | BK60, BK130/36, BK180 |
| 20 kV & Below | BK60, BK130/36, BK180 |

Category A&B Devices 50/60 Hz Qualification Test

| | |
|-----------------------------|-----------------------|
| 50/60 Hz Qualification Test | |
| 46 kV & Below Voltage Class | BK60, BK130/36, BK180 |
| 69 kV Voltage Class | BK60, BK130/36, BK180 |
| 138 kV Voltage Class | BK130/36, BK180 |

Category A&B Double Rated Voltage Test

| | |
|-----------------------------|-----------------------|
| 46 kV & Below Voltage Class | BK60, BK130/36, BK180 |
| 69 kV Voltage Class | BK130/36, BK180 |
| 138 kV Voltage Class | BK180 |

Category C Qualification Test

| | |
|-----------------------------|-----------------|
| 46 kV & Below Voltage Class | BK130/36, BK180 |
|-----------------------------|-----------------|

Insulating Aerial Ladders & Insulating Aerial Vertical Towers Qualification Test

| | |
|---------------|-----------------------|
| 46 kV & Below | BK130/36, BK180 |
| 20 kV & Below | BK60, BK130/36, BK180 |



SAFETY and DESIGN FEATURES

- Two-piece design
- Circuit breaker protection
- External interlock provision
- High Voltage On/Off pushbuttons with indicator
- Zero Start interlock
- Manual control of output voltage
- Adjustable overload circuit
- Slow and fast-acting transient protection on all meters and relays
- Digital timer with audible alarm
- Digital multi-range metering
- Emergency Off pushbutton with key lockout (excluding model BK60)
- Guard mode for accurate current measurements
- Output overload indicator with reset switch
- All Interconnect control and power cables are included
- Cable storage provision
- Operation/maintenance manual
- BK 130/36 model uses inductive reactive compensation to reduce input power



OPTIONS

Accessory Package

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



Ground Stick

Flashing Light (available for model BK130/36 only)

Aluminum Transformer Cover (available for model BK130/36 only)

Vinyl Cover (available for model BK130/36 only)

Hand Cart (option for model BK60)



| | MODEL | BK60 | BK130/36 | BK180 |
|------------------|-----------------------|-----------------------------------|--|------------------------------------|
| INPUT | Voltage/Current | 110-120 V, 10 A 208-240 V, 6 A | 110-120 V, 30 A 208-240 V, 15 A | 110-120 V, 30 A 220-240 V, 15 A |
| | Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| OUTPUT | Voltage/Current | ≈ 0-60 kV, 10 mA | ≈ 0-36 kV, 180 mA ≈ 0-130 kV, 50 mA | ≈ 0-180 kV, 18 mA |
| DUTY CYCLES | 5 min ON/15 min OFF | 10 mA | 50 mA/180 mA | 18 mA |
| | 1 hr ON/1 hr OFF | 7 mA | 33.3 mA/120 mA | 12 mA |
| | Continuous | 5 mA | 25 mA/90 mA | 9 mA |
| DIGITAL METERING | Metering Accuracy | 0.8% Reading + 0.2% Full Scale | 0.8% Reading + 0.2% Full Scale | 0.8% Reading + 0.2% Full Scale |
| | Voltmeter Range(s) | 0-60 kV | 0-36/130kV | 0-180kV |
| | Currentmeter Range(s) | 0-200 μA/2 mA/ 20 mA | 0-200 μA/2 mA/ 20 mA/200 mA | 0-200 μA/2 mA/ 20 mA |

| | MODEL | BK60 | BK130/36 | BK180 |
|-----------------|--------------------|-----------|---------------|-----------|
| CABLES INCLUDED | Input Power | 10' (3 m) | 30' (9 m) | 20' (6 m) |
| | Power Interconnect | 10' (3 m) | 20' (6 m) | 20' (6 m) |
| | Meter Interconnect | 10' (3 m) | 20' (6 m) | 20' (6 m) |
| | Ground | 10' (3 m) | (2) 20' (6 m) | 20' (6 m) |
| | Return | 10' (3 m) | 20' (6 m) | 20' (6 m) |

ENVIRONMENTAL CONDITIONS

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

DIMENSIONS & WEIGHTS

| | | BK60 | BK130/36 | BK180 |
|---------------|--------|-----------------|------------------|------------------|
| CART | Length | optional | 22.5" (572 mm) | attached to tank |
| | Width | | 29.25" (743 mm) | |
| | Height | | 50" (1270 mm) | |
| | Weight | | 70 lbs(32 kgs) | |
| CONTROLS | Length | 16.5" (419 mm) | 21.5" (546 mm) | 22" (559 mm) |
| | Width | 15.25" (387 mm) | 17" (432 mm) | 17" (426 mm) |
| | Height | 11.25" (286 mm) | 14" (356 mm) | 14" (356 mm) |
| | Weight | 35 lbs(16 kgs) | 49 lbs(22 kgs) | 49 lbs(22 kgs) |
| HV TANK | Length | 14" (356 mm) | 16" (406 mm) | 27" (686 mm) |
| | Width | 14" (356 mm) | 16" (406 mm) | 34" (864 mm) |
| | Height | 14" (356 mm) | 30" (762 mm) | 42" (1067 mm) |
| | Weight | 70 lbs(32 kgs) | 178 lbs(81 kgs) | 410 lbs(186 kgs) |
| SHIPPING SIZE | Length | 21" (533 mm) | 33" (864 mm) | 58" (1473 mm) |
| | Width | 21" (533 mm) | 26" (686 mm) | 39" (991 mm) |
| | Height | 16" (406 mm) | 55" (1422 mm) | 52" (1321 mm) |
| | Weight | 38 lbs(17 kgs) | 344 lbs(157 kgs) | 718 lbs(326 kgs) |
| | Length | 20" (508 mm) | | |
| | Width | 20" (508 mm) | | |
| | Height | 20" (508 mm) | | |
| | Weight | 78 lbs(35 kgs) | | |

High Voltage • High Current • High Power Test Systems and Components

ISO 9001
CERTIFIED



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