

# 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
  - **Traceable Calibration** to **NRC** (National Research Council Canada)
  - **Fully automated** with **data acquisition**
  - **ISO17025 Calibration & Uncertainty Analysis** available
  - **Simple set-up** and **operation**



Model BK130/36



Model BK130/36-B



## 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. Convenience features such as built-in timer and audible alarm are standard on all Phenix BK series units.

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

## Safety and Design Features

- Main power circuit breaker
- External interlock provision
- High Voltage On/Off pushbuttons with indicator
- Zero Start interlock
- Slow and fast-acting transient protection on all meters and relays
- Emergency Off pushbutton with key lockout
- Digital timer with audible alarm
- Warning Circuit for external devices such as light and horns
- Uses reactive compensation to reduce input power
- Overload circuit adjustable from 10% to 110% of rated current
- Output overload indicator with reset switch
- Guard Current Mode for precision Boom Leakage current measurement
- Operation/maintenance manual

### Models BK130/36

- Manual control of output voltage
- Adjustable overload circuit
- Digital multi-range metering
- Cable storage provision

### Models BK130/36-B and BK300

- Motorized control of output voltage
- Adjustable ramp rate of rise in V/s
- Full-color Touch-screen display
- Auto voltage
- Breakdown Memory Voltmeter
- Maximum Voltage Reached Memory Indicator
- TCP/IP Protocol for Data Acquisition

## 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
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### 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
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### Insulating Aerial Ladders & Insulating Aerial Vertical Towers Qualification Test

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

## Environmental Operating Conditions

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

	MODEL	BK130/36	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	5 min ON/30 min OFF, 60 mA
		1 hr ON/1 hr OFF, 33.3 mA/120 mA	
		Continuous, 25 mA/90 mA	
DIGITAL METERING	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	Available Upon Request



**Model BK130/36**



**Model BK130/36-B**

## 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

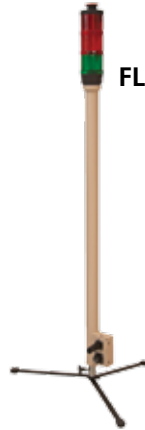
- FL-1 Flashing Light, Mounted, Telescoping Pole
- FL-2 Flashing Light only with magnetic base
- FL-3 Red/Green Light, Folding Base, Security Circuit, E-stop, 20' Cable
- FL-4 Flashing Light with Security Circuit, magnetic base



FL-1



FL-2/FL-4



FL-3

### ➤ Foot Switch with 20' lead



### ➤ PD Test Certification

### ➤ Calibration Data, NRC

### ➤ ISO17025 calibration

### ➤ Low Voltage Line Filters



### ➤ Vinyl Cover



### ➤ Ground Stick



### For Model BK130/36 Only

- Upgrade to Heavy-duty Cart
- Aluminum Transformer Cover



### ➤ Lift Kit for HV Tank



### For Model BK300 Only

- Casters



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ISO  
9001:2008  
Compliant

