



**PHENIX**  
TECHNOLOGIES

# 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 / IEC 61813)
- Suitable for common dielectric and insulation testing requirements

### Models Available

- BK60
  - BK130/36
  - BK180
- **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



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.

## 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
- BK130/36 model uses inductive reactive compensation to reduce input power

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

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



## 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)



**Ground Stick** (refer to brochure no. 40402)

**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)

### 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)		

### Environmental Conditions

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



#### WORLD HEADQUARTERS

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