

# Benchtop AC Dielectric Test Sets

## 5-15 kV

### Testing Applications

- Suitable for AC dielectric and insulation testing up to 15 kV on all types of electrical products such as motors, cables, switchgear, bushings, capacitors, fuses, and arrestors
  - Complies with UL, CSA, OSHA, NEMA, IEC, AEIC, EPCEA, IEEE, ASTM and other applicable testing standards
- **1-piece design**
  - Housed in a **rugged steel enclosure**
  - Models available with **easy to read digital meters** or a **full-color touch screen** display with data acquisition
  - **ISO17025 calibration** upon request



Model 605-2P



Model 615-20P

The Phenix line of 5 kV-15 kV AC Hipots offer a completely integrated, easy-to-use high voltage AC supply. The air insulated high voltage transformer, controls and regulator are housed either in a painted steel benchtop enclosure or for the larger units in a free-standing steel enclosure with casters.

All units are equipped with standard safety features such as circuit breaker protection, adjustable output overloads, external interlock provisions, and zero start interlock. The output voltage is completely adjustable from near zero to 100% of output via a rugged and reliable variable auto-transformer.

These AC dielectric test systems are ideally suited for dielectric testing up to 15kVAC within a wide variety of applications.



	MODEL	605-2P or B	605-5P or B	605-10P or B	610-2P or B	610-5P or B
INPUT	Voltage	115/120 V, 60 Hz or	220/240 V	220/240 V	115/120 V, 60 Hz or	220/240 V 50/60 Hz
	Frequency	220/240 V, 50 Hz	50/60 Hz	50/60 Hz	220/240 V, 50 Hz	
OUTPUT	Voltage	≈ 0-5 kV	≈ 0-5 kV	≈ 0-5 kV	≈ 0-10 kV	≈ 0-10 kV
	Current	0-400 mA	0-1 A	0-2 A	0-200 mA	0-500 mA
DUTY CYCLES	5 min ON/15 min OFF	2 kVA	5 kVA	10 kVA	2 kVA	5 kVA
OPTION BURN	Rating	1 kVA	3 kVA	3 kVA	1 kVA	3 kVA
<b>"P" MODELS Dimensions &amp; Weight (approx.)</b>		20"L x16"W x12"H, 70 lbs 508 x 406 x 305 mm, 32 kgs	24"L x24"W x44"H, 315 lbs 609 x 609 x 1117 mm, 143 kgs	24"L x24"W x44"H, 400 lbs 609 x 609 x 1117 mm, 181 kgs	20"L x16"W x12"H, 80 lbs 508 x 406 x 305 mm, 36 kgs	24"L x24"W x44"H, 320 lbs 609 x 609 x 1117 mm, 145 kgs
<b>"B" MODELS Dimensions &amp; Weight (approx.)</b>		20"L x16"W x12"H, 70 lbs 508 x 406 x 305 mm, 32 kgs	24"L x35"W x70"H, 410 lbs 609 x 889 x 1778 mm, 186 kgs	24"L x35"W x70"H, 510 lbs 609 x 889 x 1778 mm, 231 kgs	20"L x16"W x12"H, 80 lbs 508 x 406 x 305 mm, 36 kgs	24"L x35"W x70"H, 420 lbs 609 x 889 x 1778 mm, 191 kgs
Casters mounted on cabinets		n/a	included	included	n/a	included
Shielded Output Cable		15' (5 m)				
Input Power Cable		6.5' (2 m)	n/a	n/a	6.5' (2 m)	n/a

## "P" Models – 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 meters, 3 ½ digit LCD display
- Digital timer with audible alarm

## "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 controls from PC (requires optional software)
- 7" Full-color touch-screen display

### The HMI displays the metering, various controls, and system messages including:

- 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	610-10P or B	610-20P or B	615-10P or B	615-15P or B	615-20P or B
INPUT	Voltage	220/240 V	220/240 V	220/240 V	220/240 V	220/240 V
	Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
OUTPUT	Voltage	≈ 0-10 kV	≈ 0-10 kV	≈ 0-15 kV	≈ 0-15 kV	≈ 0-15 kV
	Current	0-1 A	0-2 A	0-667 mA	0-1 A	0-1.33 A
DUTY CYCLES	5 min ON/15 min OFF	10 kVA	20 kVA	10 kVA	15 kVA	20 kVA
OPTION BURN	Rating	3 kVA	3 kVA	3 kVA	3 kVA	3 kVA
<b>"P" MODELS Dimensions &amp; Weight (approx.)</b>		24"L x 24"W x 44"H, 400 lbs 609 x 609 x 1117 mm, 181 kgs	24"L x 27"W x 68"H, 650 lbs 609 x 686 x 1727 mm, 295 kgs	24"L x 24"W x 44"H, 460 lbs 609 x 609 x 1117 mm, 209 kgs	24"L x 24"W x 52"H, 600 lbs 609 x 609 x 1321 mm, 272 kgs	24"L x 27"W x 74"H, 670 lbs 609 x 686 x 1880 mm, 304 kgs
<b>"B" MODELS Dimensions &amp; Weight (approx.)</b>		24"L x 35"W x 70"H, 609 x 889 x 1778 mm				
		500 lbs, 227 kgs	760 lbs, 345 kgs	560 lbs, 254 kgs	690 lbs, 313 kgs	780 lbs, 354 kgs
Casters mounted on cabinets		included				
Shielded Output Cable		15' (5 m)				
Input Power Cable		n/a				

## Options

- Custom cable lengths
- Burn Feature  
The Burn Feature is a current limiting device that is connected in series with the primary winding. This feature offers the ability to burn the faults in the test specimen at a controlled current level. The Burn Feature is available with rating listed above.
- PD Test Certification
- ISO17025 calibration
- **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**



- **Ground Stick**



### For "B" models Only

- Windows Software for connection to PC
- Fiber Optic communications for lab use

## Environmental/Operating Conditions

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



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Our 85,000 square-foot headquarters is a modern manufacturing facility. All aspects of electrical, mechanical, and software design and production are performed in this facility. Our engineers offer a unique blend of theoretical knowledge and practical experience. Our Service and Calibration Department assists customers during and after installation to ensure years of trouble free service.

We carry our commitment into the future as we proudly continue to provide the best in **high voltage, high current, high power test systems and components.**



#### HEADQUARTERS

**Phenix Technologies, Inc.**  
75 Speicher Drive  
Accident, MD 21520 USA  
Ph: +1.301.746.8118  
Fx: +1.301.895.5570  
Info@phenixtech.com

#### BRANCH OFFICES

**Doble Global Holding AG**  
Riehenstrasse 62A, 4058 Basel, Switzerland  
Ph: +41.61.383.2770, Info@phenixsystems.com

**Doble Asia Global Holding**  
Zhong Cheng Rd, Sec 1, No 177, 2F, Taipei 11148 Taiwan  
Ph: +886.2.2835.9738, Fx: +886.2.2835.9879, Info@phenixasia.com