



3kV-15kV AC HIPOTS

Description

The PHENIX line of Benchtop and single piece AC Hipots consist of a single-phase high voltage transformer, voltage regulator, controls, and measuring devices, all contained in the same cabinet.

Safety Features

To provide optimum safety for the operator, each test set is provided with:

- Metal enclosure with provision for ground lead
- External interlock provision
- Zero-start interlock
- Input circuit breaker with indicator
- Overload circuit adjustable by means of a potentiometer from 10 to 110% of rated current; includes reset button with indicator

Supply Voltages

The standard supply voltage is a single-phase, 120V or 220V* Volts, 50/60Hz on models up to 2 kVA. Other input voltages are available as options.

High Voltage Output

The output is manually adjustable with distortion less than 5%. These hipots are designed for a duty cycle of 5 min ON/15 min OFF.

Cabinet

The benchtop models are housed in a rugged steel enclosure. Handles are provided for easy lifting on smaller models.

Application

These test sets can be used for single-phase AC dielectric and insulation testing up to 15 kV, and are designed to test motors, cables, switchgear, bushings, capacitors, fuses, arrestors, and with other apparatus, according to UL, CSA, OSHA, NEMA, IEC, AEIC, IPCEA, IEEE, ASTM, and other applicable standards.

Options

- Digital Meters—1% accuracy, Full Scale
- HV ON/OFF Pushbuttons
- Burn Feature
- Current Ranges w/Digital Meter option
- Guard or Bypass option for measuring only selected currents
- Higher power ratings available

* 220V units will operate from 208V-240V.



Model 605-2P

Design Details

The high voltage transformer is air-insulated. The voltage regulator is a variable autotransformer, air-insulated and provided with a limit switch for zero start interlock.

The low voltage arm of the output-connected voltage divider feeds the voltmeter. Total measuring accuracy is better than 2% full scale (analog units). A currentmeter is connected between return/ground and the low potential side of the high voltage winding. Total measuring accuracy is better than 3% full scale (analog units).

An adjustable electronic current overload circuit with total response time less than 30 milliseconds protects the test set and test object.

An optional "Burn Feature" is also available. 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. This Burn Feature is available with a rating from 25-100% of rated current.

Standard Features

- Input circuit breaker with indicator
- External interlock provision
- Zero-start interlock
- HV ON momentary pushbutton with indicator
- Single range analog voltmeter connected across the output for maximum accuracy
- Single range analog currentmeter connected directly in the return/ground leg for maximum accuracy
- Manual control of output voltage
- Overload circuit adjustable from 10 to 110% of rated current; includes reset button with indicator
- Overvoltage and transient protection devices
- Input power cord (5 ft., 1.5m) with ground up to 2 kVA models
- Output cable (15 ft., 4.5m) with ground shield
- Instruction manual with schematics and spare parts list

Specifications** Higher voltages and power ratings available—please inquire!

Output (AC)			Metering Accuracy (standard)	Size (inches) *	Size (millimeters)	Weight* lb (kg)	Power Input	Model
Voltage	Current	kVA						
0-3kV	0-167mA	0.5	Voltage +/- 2% FS	22"W x 16"D x 12"H	558W x 405D x 305H	70 (32)	Standard voltages up to 2kVA are 120V/ 60Hz or 220V/ 50-60Hz (Input voltages must be specified when ordering)	603-0.5P
	0-667mA	2.0		22"W x 16"D x 12"H	558W x 405D x 305H	80 (36)		603-2P
0-5kV	0-100mA	0.5	Current +/- 3% FS	22"W x 16"D x 12"H	558W x 405D x 305H	70 (32)		605-0.5P
	0-400mA	2.0		22"W x 16"D x 12"H	558W x 405D x 305H	80 (36)		605-2P
	0-1.5A	7.5		23"W x 27"D x 43"H	585W x 685D x 1092H	250 (114)		605-7.5P
	0-2A	10.0		27"W x 28"D x 42"H	685W x 710D x 1065H	410 (186)		605-10P
0-10kV	0-50mA	0.5	(optional) Voltage +/- 1% FS	22"W x 16"D x 12"H	558W x 405D x 305H	75 (34)		610-0.5P
	0-200mA	2.0		22"W x 16"D x 12"H	558W x 405D x 305H	80 (36)		610-2P
	0-750mA	7.5		27"W x 22"D x 41"H	685W x 558D x 1040H	342 (155)		610-7.5P
	0-1A	10.0		28"W x 26"D x 66"H	710W x 660D x 1675H	450 (204)		610-10P
	0-2A	20.0		32"W x 22"D x 66"H	815W x 558D x 1675H	855 (388)		610-20P
0-15kV	0-500mA	7.5	+/- 1% FS	27"W x 23"D x 53"H	685W x 585D x 1345H	425 (193)		615-7.5P
	0-667mA	10.0		28"W x 26"D x 66"H	710W x 660D x 1675H	480 (218)		615-10P
	0-1.33A	20.0		32"W x 22"D x 66"H	815W x 558D x 1675H	905 (410)		615-20P

*Exact specifications should be confirmed through inquiry.

**Based in our commitment to continual research and development, Phenix Technologies reserves the right to update product specifications without notice.

The PHENIX Technologies Product Line

- AC Dielectric Test Sets
- Resonant Test Sets
- DC Hipots and Insulation Test Sets
- Automatic Insulating Material Testers (DI49)
- Liquid Dielectric Test Sets
- Megohmmeters
- Vacuum/Oil Interrupter Testers
- Bucket Truck Testers
- High-Frequency Cable Aging Test Sets
- Heat Cycling Test Sets
- Rubber Goods—Protective Equipment Testers
- Core Loss Testers
- AC, DC and AC/DC Motor Test Sets
- Transformer Test Systems
- Computerized Circuit Breaker Test Sets
- Computerized Recloser Test Sets
- DC Power Supplies
- High Voltage DC Cable Thumpers
- High Voltage Terminations
- High Power Column-Type Variable Transformers
- High Power Thoma-Type Variable Transformers
- Voltage and Current Stabilizers

Company Profile

PHENIX Technologies is a leading manufacturer of high voltage, high current, and high power test systems and components. Our AC and DC test systems are in operation around the world satisfying the testing requirements of our customers.

Our 68,000 square feet headquarters is a modern manufacturing facility where all the major components of our systems are produced. All of our equipment is designed to satisfy the testing requirements of our customers. Our engineering resources, manufacturing capability, and commitment to flexibility has earned us the reputation as the

supplier of choice. From portable test equipment to large, cutting edge automated and computerized test systems, Phenix provides solutions for your testing needs.

Because we have complete confidence in our products, we offer the longest warranty in the industry. Our Service & Calibration Department stands ready to assist you during and after installation to insure years of trouble free service.

Our engineers offer a unique blend of theoretical knowledge and practical experience. You owe it to yourself to discuss your special requirements with PHENIX TECHNOLOGIES.



**PHENIX
TECHNOLOGIES**

116 Industrial Drive
Accident, MD 21520 USA
Tel: 301-746-8118
Fax: 301-895-5570

Your local representative is