

# Electrical Protective Equipment Test Systems



## Testing Applications

Phenix Technologies manufactures a complete line of Protective Rubber Goods Test Systems for testing the following utility worker safety gear:

- Gloves
- Sleeves
- Blankets
- Overshoes/Boots
- Hoses
- Hoods
- Switch Sticks

Phenix Technologies' test systems are designed for fast, accurate, and safe testing. Our user-friendly HMI combined with Programmable Logic Controls performs your specified test from pre-programmed test parameters at the touch of a button. Many automated features increase efficiency and safety.



Phenix Technologies offers solutions to furnish any type or size rubber goods testing lab.

- Test systems can be configured in many ways for optimal efficiency
- Multiple test stations can be powered from one power supply
- Each test station uses an optically isolated control network for reliability and safety
- WINRGTS software allows data storage on a separate PC
- Complies with all the latest IEC and ASTM standards



**Power Supply**

## Description

All cabinets are constructed of 12-gauge cold-rolled steel, primed and painted with two urethane topcoats for rust prevention. For the safety of the operator, all panel doors and access doors are electrically interlocked so that any attempted entry into the test set while it is in operation will cause the power to shut down. Superior ozone removal system features 1100 CFM exhaust fans with direct free air intake and circulating system. The systems size will depend on the number of test positions required.

The **Power Supply** module houses the high voltage transformer, regulator, and control panel.

- Various combinations of Power Supply modules are possible.
  - A single power supply module can power several different test units with the use of an optional HV transfer switch.
  - Two power supply modules can be joined to double simultaneous testing capabilities for large volume testing requirements.
- The system can be configured with AC or DC power supplies or both AC and DC to meet applicable test standards.
- Computer interface

Each system's **Control Panel** features an HMI interfaced with Programmable Logic Controls. A number of programming options make testing more efficient and reduces the chance of operator error. Some of the possible functions performed at the touch of a button include:

- Instantly change the parameters of the test to meet the specified standard
- Switch testing from one product to another; such as, gloves to sleeves or blankets
- Change the testing requirements for different classes of rubber

The HMI displays precise, easy-to-read test results and will immediately inform the operator of any failure at a specific test station. All test results can be downloaded to a computer and test reports can be generated with WINRGTS software.

Our **Modular Design** options are beneficial to the customer that tests a variety of different rubber products. The test chambers are separate from the power supply and control panel. Different configurations allow customers more flexibility inside their facility. Systems can be built in L-shapes or in a straight line.



**Modular Design  
Stick & Hose Test System**

## Glove and Sleeve Testers

- 1 to 16 test positions available
- AC, DC, or AC/DC testing capability
- Meets all IEC and ASTM standards for rubber class 00 through class 4
- Easy loading and set-up
- Dual testing chambers available for expanded efficiency
- Sleeves can be tested in straight or hammock method
- Optional Chemical Pump and Filter System for sleeve testing transfers dielectric fluid and filters for future testing
- Superior ozone removal system



**Glove,  
Sleeve  
Testers**



## Blanket Testers

- 1 to 4 test positions available per module
- Can test class 0 to class 4 rubber and EPDM blankets
- Test solid and split blankets up to 46" (1168 mm) square
- Easy loading drawers with roller slides
- Test drawer lock/grounding system for safety
- Superior ozone removal system



**Blanket Tester**

## Hose and Hood Testers

- Hose / Hood fixtures available for all types and styles
- 1 or 6 test positions available
- Can test 4' (1.2m) to 6' (1.8m) long hoses
- Large, see through bi-fold doors for easy access
- Superior ozone removal system



**Hose and  
Hood Tester**

## Switch Stick Testers

- 1 to 6 test positions available
- Can test up to 14' (4.24m) switch sticks or up to 21' (6.4m) sticks
- Maximum voltage 75 kV per 12" (305 mm) section
- Large, see through bi-fold doors for easy access



**6-Position Switch Stick Testing Module**

## Rubber Goods Washer

- Automated wash cycle
- Rotating drum design
- Constructed entirely of 316 stainless steel
- Two drum sizes are available:
  - 22" (559mm) diameter & 84" (2134mm) long
  - 30" (762mm) diameter & 96" (2438mm) long.
- Handles large quantity loads of all types of different rubber goods



**Rubber Goods Washer**

## Rubber Goods Dryer

- Can be used to dry rubber products such as gloves, hoses, hoods, blankets, boots and overshoes
- Static type design helps prevent pinches and tears that occur in a tumble type dryer
- Heat cycles on and off to provide even heat
- Built-in temperature controller



**Rubber Goods Dryer**



**PHENIX**  
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