



L,M,N Series Glove and Sleeve Testers

PPE

Benefits:

- ⊞ All machine adjustments are controlled via the menu
- ⊞ Digital microprocessor controls and metering
- ⊞ Menu-based test selection
- ⊞ Automatic testing of lineman's gloves, sleeves or line jumpers up to 50,000V AC(L), 90,000V DC(M) or both(N)
- ⊞ Allows testing to ASTM D120, F496 and IEC 60903 standards

Description:

The L, M and N Series is The VON Corporation's fully automated, microprocessor-controlled system which tests gloves, sleeves, and line jumpers. All standard rubber goods can be tested, including class IV. All adjustments are controlled via a menu-operated microprocessor control system. With a single selection, the test voltage, current limit, depth, water fill level, test time, blower speed, and exhaust fan speed are set. To operate, simply load gloves via the special clothespins, lower the test electrode into the glove, and press start. Automated water fillers fill the glove in under 30 seconds. Tests are timed and an audible alarm sounds failures or test complete, with bright flashing colored lights signaling which position failed, or test complete.

Additional Information:

The -W option allows use of the VON Hammock method on all positions. An extra wide and long tank allows testing of sleeve shoulders with 11" spacing in between.

Using the microprocessor control system's menu, users can select which type (class, length, new or retest) of glove is to be tested. From this single selection, all system settings can be set, thus eliminating operator error and providing a quick changeover from one class to another. Current readings for all positions are displayed on the control panel, and the peak current during the test is saved on screen for easy record keeping.

FOR FURTHER INFORMATION
PLEASE CONTACT:

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Glove Testing:

Capable of testing gloves 10.5" - 18" long in accordance with the latest ASTM D120 and F496 standards. Clothespin-type holders provided do not pinch gloves or sleeves. Nine-inch center-to-center spacing accommodates 40 K.V. gloves. Models available to test 6 to 28 lineman's gloves or sleeves.

Sleeve Testing:

Able to test all standard sleeves in accordance with the latest ASTM D1051 and F496 standards. Sleeves can be tested by the VON hammock method using provided clothespins and 2" dia. spacer to eliminate sharp bends in sleeves. In D models, this method allows testing of half as many sleeves as gloves. With W models, this method allows testing of a full load of sleeves. As many sleeves as gloves can also be tested by the straight method using one of the freon replacement fluids in the bottom of the tank.

Line Jumper Testing:

One or two line jumpers may be tested in the test tank in place of gloves or sleeves.

Voltage:

Input voltage is 120/240 v. 60 hertz A.C. single phase. L series has 0-50,000 v. A.C. test voltage provided by a 12kva continuous-duty transformer. M series has 0-90,000 v. D.C. supply. The N series contains both supplies and a transfer switch for changing between high voltage supplies. The test voltage is measured by means of a resistive divider connected directly across the high voltage circuit. An LCD displays the output voltage both digitally and with a bar graph. The test voltage is raised and lowered with a special solid state device at a rate of approximately 1 kv A.C. or 3 kv D.C. a second.

Current:

Current of each tested glove/sleeve continuously monitored by micro-processor control system. Active current leakage as well as peak current displayed on LCD display both digitally and with bar graph.

High Voltage Test Tank:

Tank constructed of 12-gauge stainless steel. Outer lip and all edges are smooth and rounded to a .75" radius to eliminate corona from tank at voltages to 50,000 v. A.C. and 90,000 v. D.C. A 1" drain valve provided in bottom of tank to drain water. When gloves are lowered into the testing position, the excess water is held in an overflow basin on rear of tank by physically raising discharge hose, providing maintenance-free shut-off, eliminating high-voltage arcs caused by water dripping from tank to ground in testing. At end of the test, discharge hose is lowered and excess water allowed to drain into catch basin.

Ventilation:

Approx. 9 cfm of air flow directed into each glove/sleeve to remove ozone generated while testing. Exhaust manifold at rear of machine pulls air across water surface through an inlet which is the length and even with the top of the high voltage tank. This removes ozone generated on outside of each glove/sleeve.

Enclosure:

Eyebolts provided in the top for crane lifting. Interlocked access door provided to the testing area at the end opposite the power supply and control area so operator can enter the machine for cleaning and maintenance. Fluorescent lamps provided inside the unit and wired to be operated when unit is turned off. Interlocked front access door is provided in the power supply and control area.

Water Fill:

Each glove is filled through a .375" tube to permit simultaneously filling each glove within 30 seconds.

Controls:

Menu-based system provides all controls from front control panel. All standard tests come predefined for the user. Predefined tests set all the machines settings and automatically run the test on specified class of glove or sleeve. There are also 10 user defined test modes available, as well as a mode for manual control of the entire system.

Indicators:



LED light indicators operate in failsafe mode by being lit at all times. Lights flash when indicating. A red "HIGH VOLTAGE FAILURE" light and an amber "OVER-CURRENT" light are provided on carrier just above each glove. A red "FAIL" light and a green "TEST COMPLETE" light are provided on the control panel. The LCD current display shows the current leakage current, as well as saving the peak current. After a failure the LCD display also indicates which gloves failed.

Operating System:

Operating cycle begins after operator selects new type of gloves from menu, which automatically adjusts depth, water fill level, test time, voltage, current limit, blower speed and exhaust fan speed with single setting. No menu selection required if type is not changed from last test. Tested items are mounted in machine. Operator pushes the "START." Machine can test single items or fully loaded. Gloves are simultaneously, automatically filled to proper level. Water filling can be bypassed for all gloveless positions or on all positions when sleeve testing. Gloves/sleeves are lowered into the high voltage tank.

High voltage cycle: raises test voltage to set value, automatically times test duration, flashes indicators for over-current or fails, sounds audible indicator of failed rubber goods, and lowers test voltage. At end of cycle, gloves/sleeves are returned to load position. At end of all tests without a high voltage failure, a green "TEST COMPLETE" light flashes and a pulsating audible signal sounds.

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