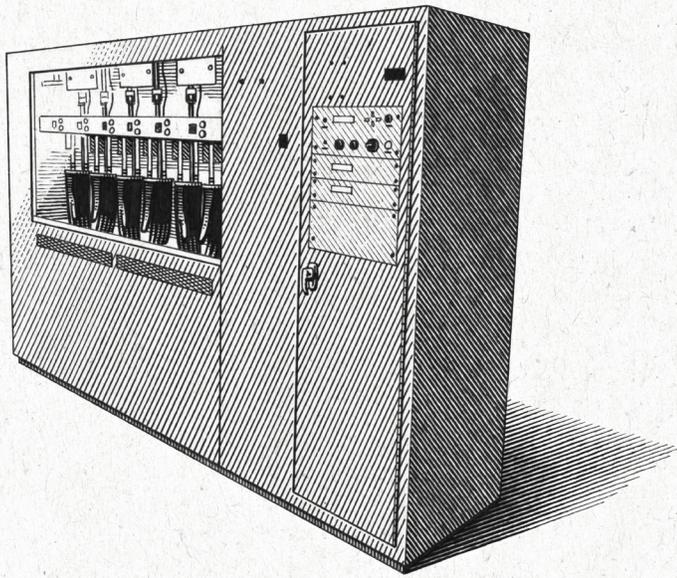


# WORKS SAFE

THE VON CORPORATION



## LSY,MSY,NSY Series

Combination Glove-Sleeve-  
Blanket-Line Hose  
Testing Equipment

PPE

Model LSY0412A1 Automatic Testing of  
lineman's gloves, sleeves, blankets, line hose,  
hoods or line jumpers Up to 50,000V AC(L),  
100,000V DC(M) or both(N)

### 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,
- blankets, line hose, hoods or line jumpers up to 50,000V AC(L), 100,000V DC(M) or both(N).
- Allows testing to ASTM D120, F496 and IEC 60903 standards.

### Description:

The LSY, MSY and NSY Series is The VON Corporation's fully automated, microprocessor controlled test lab in a box. Units allow testing of gloves, sleeves, blankets, line hose, hoods and even line jumpers. All standard rubber goods can be tested, even class IV. All machine adjustments are controlled via a menu operated digital microprocessor control system.

Same advantages as the VON L, M, N units with the addition of a compartment to test blankets, line hose and hoods. This combination covers all of the most commonly tested rubber goods.

FOR FURTHER INFORMATION  
PLEASE CONTACT:

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### Glove Testing:

Capable of testing gloves 10.5" – 18" long IAW 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 one to 28 lineman's gloves or sleeves.

### Sleeve Testing:

Able to test all standard sleeves IAW latest ASTM D1051 and F496 standards. Sleeves can be tested by the VON hammock method using provided clothespins and two 2" dia. spacers to eliminate sharp bends in sleeves. In D models, this method allows testing of only half as many sleeves as gloves. With W models, method allows 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.

### Blanket Testing:

Capable of testing one or two blankets (depending on model). The bottom support is covered with non-tracking film to eliminate drawer damage due to flashovers around the edge of blanket. All standard size and voltage blankets including Class IV 42" x 42" can be tested. One set of electrodes is provided with the tester for each position. Additional electrodes are available for all sizes of blankets.

### Line Hose and Hood Testing:

Capable of testing two six-foot-long line hose or two standard hoods. The brand, size, and model of hose and hoods to be tested must be specified when ordering to ensure proper electrodes are provided.

### 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 0-100,000 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 100,000 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.

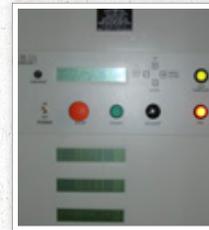
### Enclosure:

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.

### Indicators:

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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