

Leak Test Equipment

Test-1, Vacuum Cleaner Lid Pressure Tester

General Description

Leak Test Equipment automatically pressure tests vacuum cleaner lids. During the operation, load the part to be tested in the machine and then press and hold the two start buttons. Buttons must be maintained until part clamps are extended and testing has started. After Swing clamp and seal cylinders expand to hold part in location and seal ports, testing is ready to begin.

The first test applies vacuum on the port until start pressure switch is made. This is the upper left high set point Dwyer gauge switch. If lower left mounted Dwyer switch set point is made, it is a high-pressure error, and red lamp will light. The reset button must be pressed. If start pressure switch is not made, part has a gross leak.



After pressure is made, vacuum valve turns off. The two vacuum switches and port will be isolated. During isolation, system looks for 2.5 seconds for pressure drop in part. If pressure drops, the part is rejected, and the red light will turn on to let the operator know. Operator then presses the alarm reset button to unclamp part. If part passes first test, right side test starts and repeats test on next port. If the part passes both tests, the part is unclamped completing the cycle. Machine includes safety features and four Dwyer pressure gauge switches. It is controlled by a PLC.