



Low Pressure Leak Detection

VTech's Low Pressure Leak Detection machines are designed and built to automatically leak test radiator and heater cores or other components with limited circuit strength in applications for automotive, truck, tractor, earthmover, snowmobile and all terrain vehicle industries. Components are leak tested at low pressures (usually 50 psig or less).



VTech's Low Pressure Leak Detection equipment provide many positive advantages:

- * Dependable, repeatable results - not operator dependent.
 - * Simple Automatic "Go, No Go" test
 - * Reduction of human error - advanced production grade touch screens and Programmable Logic Controllers (PLC) programmed for selection of "model in process," parameters preset by engineering and quality.
 - * Small space requirement - eliminates underwater leak testing and drying operations.
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- * Saves money - eliminates leak testing of components under water as a standard procedure. Thus reduces waste water, conveyor maintenance, drying and dehydration operations of wet components, while increasing productivity by having one operator simultaneous process several components.
 - * Quality raised - because of our ability to consistently identify a leak using individual component performance data combined with our advanced algorithms.
 - * Visual status - operator interface panel provides complete status for component(s) under test as the test cycle progresses and displays the test results of which components passed or failed until cleared by the operator.
 - * Changeover is automatic - increased throughput
 - * Systems expandable - allows data acquisition, network interfaces, bar coding reading, etc., providing the information or interfaces needed for a smooth running operation.
 - * Single or multiple station systems are available to meet your production requirements.

Technical Specification

Function: charge each component to specified pressure(usually 50 psig or less) with dry air or nitrogen; conduct leak test; upon passing, automatically exhaust the gas and move to next operation.

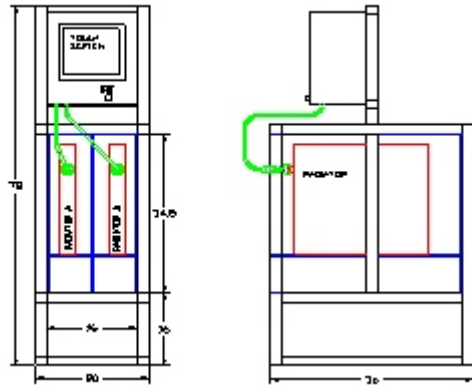
Charging/Exhaust: dry air or nitrogen charge to specified pressure using system supply pressure; rubber covered charging hose ending with quick connect coupler; manifold of welded stainless steel or aluminum construction with integral pressure transducers; air operated inlet, isolation and exhaust valves.

Controls: production environment “touch screen” facilitates selection of specific

“model in process” for test with preset pressure test and exhaust process; programmable logic controller algorithms work with direct input pressure transducers; communication port for data acquisition, network interfaces, bar coding reading or quality control printouts.

Construction: heavy duty steel frame; 20" x 20" x 8" NEMA 12 enclosure mounted on steel frame with production touch screen; 100 pounds (60 kilos); typical overall dimensions 20" x 36" x 78".

Power requirement: 110v, 1 ϕ , 60 hz, 5amps.



We provide complete turn-key Low Pressure Leak Detection Systems including repair stations, training of personnel or individual equipment for your specific production line requirements. In addition, we can provide conveyors, fixtures, leak test fittings, etc.

Our experts are available to listen to your requirements; audit your production facility; provide solution proposals to improve your production flow or processes; construct equipment or components that address your problem; all of which results in optimizing your productivity. And we can design and build the solution for you. Contact us.

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VTech

Galileo Vacuum Systems, Inc.
5950 Shiloh Rd. East,
Alpharetta, GA 30005
Tel: +1-678-513-0303 Fax: +1-678-513-0608
e-mail: galileovacuum@att.net