

Customer Focus

#7

McQuay Renews Confidence in VTech

VTech recently completed the installation of a new VTech 75 pressure decay leak tester with hydrogen tracer gas sniffer leak locator, the second such unit to be installed at their Auburn, NY facility. McQuay International (www.mcquay.com) is an industry leader in air conditioning and industrial/commercial refrigeration.

“While we’re an international company, we still feel more confident in having local support and service for our process equipment,” says Tim Schnell, Sr. Manufacturing Engineer. In this case, our manufacturing and ser-

vice is only an hour away in Syracuse, NY. Although the market continues to globalize, in many ways the equipment business is still a local one.

This VTech 75 is actually a split system, meaning the unit itself sits outside a divided room where, on one side, the pressure decay is done and on the other side, the hydrogen tracer gas sniffing. The sniffer uses a 5% Hydrogen/95% Nitrogen mixture.

This setup is designed to create a

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VTech 75 Split System

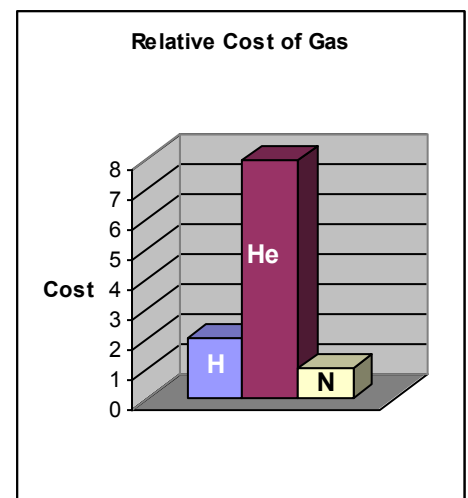
Industry News

How Much is Helium Costing You?

The latest difficulty faced by the manufacturing industry is the increased cost of helium gas, used widely in refrigeration and air conditioning manufacturing processes, mainly for leak detection purposes.

Alternative technologies have existed for some time, but are now gaining even more popularity. One such technology is the solid-state Hydrogen sniffer

system, which uses a premixed tracer gas of 95% nitrogen and 5% hydrogen. Since the hydrogen is in such a small ratio, it is inert and completely non-flammable. VTech’s VTech 75 leak detection machine uses this tracer gas as a final fine leak detector. To read our technical/cost analysis of Helium vs. Hydrogen, contact VTech for a copy or visit our website.



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McQuay Renews

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more modular process and “split” each part of the test. One unit to be tested is in the Pressure Decay area and another unit, which has already passed the Pressure Decay test, is in the hydrogen area. That way one operator can do both tests at the same time and can control both sides of the test from the Hydrogen side, since the Pressure Decay side, which uses high pressure, would be unsafe to the operator during the test. Electrical interlocks on the room doors ensure the safety of the operator. The machine will not operate with the doors open nor will anyone

be able to get in while the test is in progress. The hydrogen side of the room has exhaust fans which keep the atmosphere free of any excess gas, which is not a significant issue when compared to helium, which is a much “stickier” element. Also, this enclosure prevents any false readings that may result from fork trucks passing by on the manufacturing floor. This shows the customization possible in the VTech equipment.

For more information on the VTech 75 click on the link below or contact your local VTech office.

[More Details](#)

Product Spotlight

Completing a recent installation of a VTech MasSpec Automatic Leak Detection System at Kaori Heat treatment Co. Ltd. in China (www.kaorinb.com) VTech continues to grow worldwide. Click on the link below for more details about the VTech MasSpec.

Kaori Heat treatment Co. Ltd., as a worldwide brazed plate heat exchanger maker, is committed to the elimination of very fine leaks in their products. In fact, by using a newly acquired VTech MasSpec automatic helium leak detector, Kaori can now detect leaks up to 1 g of R134a per year and discriminate the products accordingly. This means the quality of brazed plate heat exchangers

made by Kaori exceed contemporary industrial standards that only require a maximum leak of 3 g of R134a. The VTech MasSpec has been specially developed for double circuit brazed plate heat exchangers. In fact this equipment can detect both the external leaks and the internal leaks between the two circuits. Also in this case, the leak level of 1 g of R134a per year is ensured. The productivity of Kaori is not affected by the new test method. In fact, the machine can process 2 pieces independently in less than 60 sec. The machine is regularly tested with a certified calibrated leak to make sure the long term validity of their high quality standards.



Request a copy of the case study we did on this project by contacting your local VTech office.



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