

TracerMate II Leak Location System

Easy to use, portable sniffer solution for your tracer gas leak test

Cincinnati Test Systems integrates the TracerMate II instrument with a mass spectrometer or gas analyzer to detect micro leaks by measuring for a concentration of Helium or Hydrogen gas escaping from a leaking part.

The system is pre-configured for quick and easy operation. The TracerMate II instrument is used to execute and manage evacuation, backfill, and the testing sequences with integrated pneumatics.

The choice of gas is yours, Helium or Hydrogen (forming gas is a mixture of 5% Hydrogen with 95% Nitrogen). Integration of mass spectrometer or gas analyzer instruments provides the capability to locate and isolate a leak with a high degree of accuracy using a hand-held probe. The probe monitors the leak rate (scc/sec) of Helium or Hydrogen in the air around the part in relation to zeroed out background.



Example of a TracerMate II leak location system utilizing forming gas

Supporting Options

- ✓ Vacuum pump
- ✓ Transport cart with work surface
- ✓ CTS Connect™ fittings for quick part seal
- ✓ Calibrated leak standard for instrument calibration

Standard Capabilities

- Pressure decay leak standard or ΔP leak test
- Sniff leak location for up to 20 independent points
- Leak Rate test data storage for each point
- Evacuation and tracer gas fill
- Step proof test with 1 to 10 steps in sequence
- Capillary back pressure test
- Tracer gas reclaim capable
- Part evacuation and N2 back fill

Advanced Test Options

- High vacuum pump out/ refrigerant fill
- Purging clamshell to control environment around a joint or part
- Accumulation
- Hard vacuum: pre-charged test
- Hard vacuum: with chamber control

Address common challenges with the CTS TracerMate II Leak Location

Is your test part complicated with many potential leak locations and is too large to fit into a test chamber?

This leak test system is integrated with a portable cart and can be wheeled up to the part. Seals are manually placed on the charge ports and the leak location is identified by an operator passing a leak detection wand over suspect joints which gives trackable leak location pass/fail results.

Do you have an operator dependent test process that relies on manually opening and closing evacuation and charge valves during the testing process and part pressure is not monitored?

This system integrates the TracerMate II instrument with a vacuum pump, a compressed pressure source and an exhaust circuit. The TracerMate II utilizes automated gas management for evacuation, integrated test control with a leak detector and exhaust. This integration allows for excellent tracer gas background control.

Is your test specification so small that you can't find a leak with snoop or bubble testing?

This system integrates a leak detection device that zeros out the background, allowing tracer gas measurements with an atmospheric sniffing device down to 1×10^{-5} scc/sec.

Additionally, this system will test to the HVAC specification of 0.5 grams of freon per year. Utilizing CTS's patented Nitrogen Purge Clam-shell Technology with a tracer gas of Helium or Forming Gas, you can test leak rates down to 1×10^{-6} scc/sec.

Don't have any easy way to test your HVAC assemblies?

No need to design and build a system when the TracerMate II Leak Location Portable Test System provides an off-the-shelf solution that not only addresses the technical and physical requirements of the test, but is based on decades of expertise. And maintenance and calibration is much simpler!



Example of a TracerMate II leak location system utilizing Helium

Reliable, Accurate, Convenient Solutions

Get the reliability and accuracy of a CTS leak test tracer gas solution in a convenient portable cart. We'll help you select the right option for your part and your testing needs. [Contact us.](#)



Your Global Leak and Function Test Solution Experts

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