



# TracerMate II HVAC-R

PORTABLE LEAK TEST AND  
TRACER GAS MANAGEMENT SYSTEM  
TO DETECT MICROLEAKS



## HVAC-R Portable Test System

Detect microleaks with a portable, simple cart solution. It integrates the TracerMate II instrument with a mass spectrometer or gas analyzer to measure a concentration of helium or forming gas escaping from a sealed part under test.

TracerMate II supports the following test types:

### Standard Capabilities

- Pressure decay,  $\Delta P$
- Sniff leak test location for up to 20 independent points
- 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

## How does the TracerMate II HVAC-R solve your problems?

**"Our test part is 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.

**"We 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.

**"Our test specification is so small that we 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  $1 \times 10^{-5}$  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, a customer can test their leak rates down to  $1 \times 10^{-6}$  scc/sec.

**"We don't have any easy way to test our HVAC assemblies."**

Why design and build a system when the TracerMate II – HVAC/R 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?

The TracerMate II HVAC-R Test System is an easy-to-use, reliable solution for your tracer gas leak test.



For more information on TracerMate II, please visit [www.cincinnati-test.com/tracermate](http://www.cincinnati-test.com/tracermate)