



# TracerMate II HVAC-R

PORTABLE LEAK TEST AND  
TRACER GAS MANAGEMENT SYSTEM  
TO DETECT MICROLEAKS



## HVAC-R Portable Test System

Our test cart supplies a simplistic solution for portability integrates the TracerMate II instrument with a mass spectrometer or gas analyzer to detect microleaks by measuring for a concentration of helium or hydrogen gas escaping from a sealed part.

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 N<sub>2</sub> 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)