

# SmartChargeIII

## Tracer Gas Charging System

A fully automatic, custom configurable evacuation and tracer gas backfill system with built-in gross leak test. The system is ideally suited for pre-charging of product with tracer gas, such as Helium, Hydrogen or others prior to the leak test process. It can also be used any gas charging application that requires evacuation and subsequent pressurization of a test product.



The SmartChargeIII is fully integrateable with our MD-490S “Real Sniffer” industrial helium sniffer leak detector.

### Features:

- Recipes to include up to 10 leak locations, with user configurable dwell time at each site
- Cumulative leak rate rejection capability that will distinguish if each individual leak site is an accept or reject
- Barcode scanner input
- Serial printer output
- Data logging over Ethernet
- Improved graphical user interface with color touch screen
- 2 inputs; 2 outputs available for external use, such as for future clamping, etc.
- Multi-level password protection
- Built in gross leak test eliminates tracer gas contamination, and waste
- Gas recovery, gas mixing and gas boosting systems available



**Vacuum Instrument Corporation**

2099 Ninth Avenue • Ronkonkoma, NY 11779 • T 631 737 0900 • F 631 737 1541 • sales@vicleakdetection.com

[www.vicleakdetection.com](http://www.vicleakdetection.com)

## SMART CHARGE III PERFORMANCE SPECIFICATIONS

### Model Selection

Base unit performs evacuation (25" Hg), vacuum decay test and tracer gas backfill to 300 psig. Units can be configured to perform evacuation to lower vacuum levels, proof test with pressure decay, high pressure operation (to 750 psig), gas recovery and communication interface.

### Performance:

#### Pressure Transducer

Resolution of 0.01 psi in vacuum mode, or in pressure mode. Accuracy of  $\pm 0.25\%$ .

#### Valving

Fast acting pull type solenoid featuring epoxy encapsulated design.

#### Manifolding

Seamless tubing with compression fitting interconnects. Helium leak tested to  $1.0 \times 10^{-6}$  atm-cc/sec@600 psig.

#### Product Evacuation Pump:

##### Air Driven Venturi Pump

Providing ultimate vacuum level 25.5" Hg.

#### Electronics

Microprocessor-based programmable logic controller.

#### Gauging

Digital part pressure and leak rate displayed on operator interface.

#### Operator Interface Touch Panel

Menu-driven 6" LCD display. Includes automatic or manual sequencing of valves, diagnostics, password security protection and full user programmable test parameters, audio alarm provided for end of cycle, and test completion.

#### Power

120 VAC, 50/60 Hz, 6.5 Amps

### Dimensions

13-9/16" (344mm) W x 15-9/16" (395mm) H x 24-5/16" (618mm) D.

### Utility Fittings

1/4" NPT female for Process 1 & 2, Part Vent, Helium Recovery, Shop Air, Nitrogen and Helium.

1/2" NPT female for Part Evacuation.

### Main Monitoring Display



### Rear Panel



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