

# Leak Test Instruments

## MODEL ME2—Mass Extraction

### Instrument Applications

Leak testing under vacuum

- Slip and viscous flow regime (0.5 torr to barometric pressure)
- Leak tightness from  $1 \times 10^{-4}$  sccs at 2 psia (3  $\mu$ m defect size)

Or

- Hard vacuum - molecular flow (less than 0.1 psia)
- Leak tightness from  $7 \times 10^{-7}$  sccs at 0.02 psia (0.2  $\mu$ m defect size)

Mass Extraction tests

Medium size parts, higher throughput

Cleanroom or industrial applications

CE approved



The Model ME2 is a popular Mass Extraction test instrument using AIR for applications replacing helium testing. Designed for medium sized parts with higher throughput, this instrument is offered for cleanroom or industrial applications.

### Features

Micro-Flow sensor—IGLS or IMFS

Automated vacuum test circuit, uniquely designed for ultra-tight leak specification

Built in balance and quick evacuation circuits

Front graphical display with touch screen

Optional verification orifice (calibrated leak) and valve

Digital and analog I/O interface

Ethernet and serial interface

Stainless steel enclosure for clean room

Various sizes of oil-less vacuum generation and control packages are available

Optional test cart

## Applicable Micro-Flow Sensors

Vacuum sensor: IL2-M, calibrated from 2 psia to barometric (slip and viscous flow regimes)

Hard vacuum sensor: IMFS calibrated from 0.01 to 0.2 psia (molecular and transitional flow regimes)

*See options chart for available options*

## Specifications

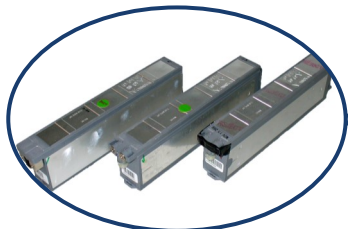
### Dimensions

- 27"W, 24"H, 19"D (does not include connectors & fittings)
- Optional cart size: 28"W, 47"H, 20"D  
Expansion tank, vacuum generation and control package are externally mounted on optional cart.

### Gases

Dry, clean gases: air, nitrogen

For other gases consult ATC



## Connections, I/O, & Power

1. **Pneumatic Connections:**  
Test port  
Air supply: 1/4 inch Swagelok®  
Vacuum: 3/8 inch to 1 inch NW  
(Application dependent)
2. **RJ45 Ethernet or RS232 Serial Interface**
3. **Digital Inputs:** 5 VDC, Opto-Isolated for start, stop, type, pressure switch, verify

**Digital Outputs:** 30 VDC-20 mA, Opto-isolated for pass, fail, clamp, test type, exhaust and custom

**Analog outputs:** single channel, 0-5 VDC pressure control

4. **Power Supply:**  
115VAC-60Hz  
220VAC-50Hz (optional)

The COMPLETE Solution For Your Most Challenging Automatic Leak Flow Testing

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