

# MS-50GT

## Available Models:

- Dual port
- Ultrafast (UFT)
- Oil-based models



## Available Models:

- Dry pump
- High sensitivity
- Argon Gas

## MS-50GT

The MS-50GT is a highly technical system that incorporates many sophisticated technologies. In view of this, every effort has been made to automate the unit's operation and maintenance procedures. The MS-50GT is an automated high-speed production console leak detector featuring three flow modes which provide flexibility and maximum productivity for application-specific leak testing.

## APPLICATIONS

### Air Conditioning & Refrigeration Systems

- Coils & Hoses
- Evaporators & Condensers
- Compressors

### Automotive Components

- Air conditioning components
- Fuel Rails injection systems
- Hoses
- Pressure transducers
- Headlights
- Wheels

### Appliances

- Fire Extinguishers
- Gas Meters
- Heat Pumps

### Aerospace

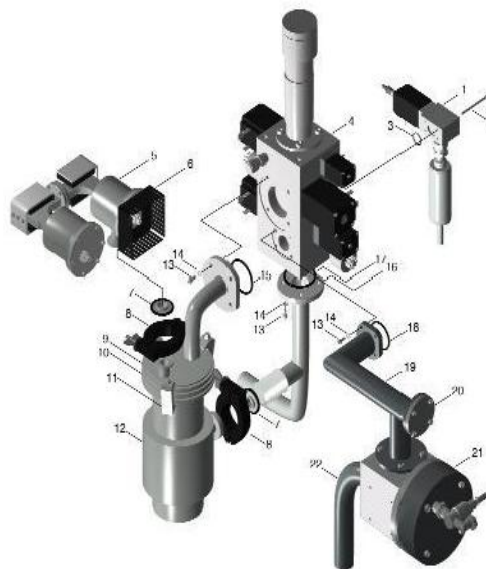
- Batteries

### Medical Devices

- Electronics

### Others

- Glass Manufacturing
- Semiconductors



Vacuum System Assembly

## BENEFITS

- High-speed production
- Three flow modes providing flexibility
- Multiple flow modes providing maximum productivity
- Application-specific leak testing
- Twice the industry average resolution
- System ready to test in less than 3-minutes



# Product Specifications

## Characteristics

Sensitivity, vacuum\*:  $3.0 \times 10^{-11}$  (atm-cc/sec)

Sensitivity, sniffing:  $.1.0 \times 10^{-08}$  (atm-cc/sec)

Leak Measurement Range:  $3.0 \times 10^{-11}$  to 10

Leak Ranging: Auto/Manual

Startup Time: Less than 3 minutes

Response Time \*: <2 direct, <2.5 reverse

Resolution \*: 14 at mass 4

Gross Test, Time (with UFT Option)- 3 (100 Torr)(seconds)

Fine Test, Time (with UFT Option)- 10 (25 mTorr,  $10^{\wedge}10$  atm-cc/sec)

Mass Spectrometer Tube:  $180^{\circ}$  deflection; dual-magnetic sector

Auto-tuning: Yes

Auto-calibration: Internal – yes; External – auto

Auto-zeroing: Yes; several zeroing functions, modes for background suppression

Reject set-point: Yes

Built-in calibrated leak: Yes;  $10^{-08}$  range

NIST traceable: Yes

Temperature compensated: Yes

Scan/Descan: Yes

Filaments: 2 Thoria Coated Iridium

Testable Masses: 3+4

Background Compensation: Automatic

Maximum Operating Pressure: 100 mTorr, 10 Torr reverse

Display/Interface: 10 (25.4) LCD flat panel display, capacitive touch-screen / Graphical User Interface (GUI)

Units: cc/second, mbar\*I/second, Pa\*M3/second

Printer Port: No

RS-232C: Yes

Software: 50 programmable test recipes; Data Link optional

## System Details

Vacuum Mode: Direct, reverse or combination, gross testing

Roughing Pump: 16 direct drive (cfm)

Foreline Pump: 7 direct drive

High Vacuum Pump: 53 L/sec

Vacuum Gauging: Pirani: Test Port and Foreline/ Ion: High Vacuum

Cold Trap:

MS-50GT- N/A

MS-50GT Dry- N/A

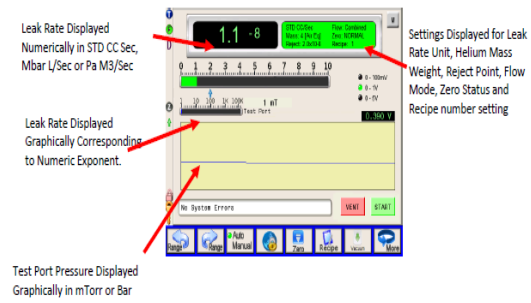
Dimensions (W x H x D): 25.75 x 30.625 x 35.25 (65.40 x 77.79 x 89.54)

Test Cup, UFT Option UFT(Ø x D): 4.5 x 1.0 (11.4 x 2.5)

Test Port Connection: 1.125 (inches)

Weight: 475 (215.45) lbs. (kg)

Power: 115/50-60/30; 230-240/50-60/15; 100/50-60/30 V/Hz/A



## FEATURES

- The only production leak detector with an interactive LCD touch-screen display and GUI
- UFT mode allowing for programmable automatic test cycle operation
- UFT test cups (various sizes)
- Dual pump system – dedicated Dry Foreline and Dry Roughing Pumps
- Built-in diagnostics for trouble-free maintenance
- Simple one-button power up has systems ready to test in less than 3-minutes
- Fully automatic startup, tuning and calibration
- Starts testing at Atmospheric Pressure
- Three Flow modes provide flexibility and maximum productivity for application-specific leak testing
- Resolution of 14 at mass 2 is twice the industry average
- Password protection
- Made in the USA

