

# MS-50 Upgrade Program

- **Option One: Upgrade to a NEW MS-50GT with 10" touch-screen HMI - reusing critical components, such the chassis, vacuum system, turbo and rotary vane vacuum pumps to convert the unit to a MS-50GT WET**
- **Option Two: Same as option one except with new rotary vane vacuum pumps**
- **Option Three: Trade credit towards a new MS-50GT WET**



## Performance Features of the MS-50 GT:

- Flexible operation mode (reverse, direct or a combination of both)
- No liquid nitrogen required
- Single button startup: time < 3 minutes
- Sensitivity:  $3 \times 10^{-11}$  std cc/sec
- Leak Range: 10 to  $3 \times 10^{-11}$  std cc/sec
- Auto startup, tune, calibration, auto zero, and auto shutdown
- UFT mode allowing for programmable automatic testing cycle operation

## Benefits of Upgrade Program:

- Extend the life of equipment
- New touch-screen HMI
- New Electronic package
- 33% savings off a new unit purchase
- Utilizes existing inventory of consumable spare parts
- Five-year warranty on Electronics

## Available Options:

• Sideport Manifold	(0139-809-10)	\$2,582
• Mini Sniffer Probe	(0139-045-00)	\$1,460
• Data Link Software	(0142-77-000)	\$ 811
• Maintenance Kit	(0139-801-00)	\$3,296



# MS-50 Legacy Upgrade Program Details

## Option 1 : MS-50 Legacy upgrade – \$28,872.00

Reuses the chassis, vacuum system, turbo and rotary vane vacuum pumps convert the unit into the MS-50GT.

Contact VIC to check system eligibility

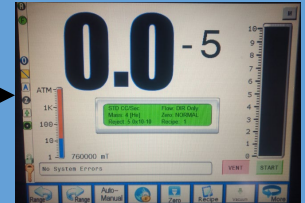
### New Items include:

- Source Assembly kit thoria coated iridium filaments, Enhanced collector Assembly
- Built-in NIST traceable temperature compensated calibrated leak model SC7 NIST
- Test port and Fore line Pirani gauges, Electronic PC Boards, complete electrical system & wire harnesses'
- Stem & bellows for rough valve, 10" Touch Screen Graphical User Interface

### Items being refurbished/overhauled

- Vacuum manifold and valves will be overhauled,
- Fore line manifold Assembly & will be overhauled,
- Rough manifold Assembly with ballast tank
- 7 CFM direct drive fore pump Assembly, includes fluid change
- 16 CFM direct drive roughing pump Assembly includes fluid change and exhaust filter
- turbomolecular high vacuum pump Assembly
- Dual magnetic sector mass spectrometer tube used to measure both helium leak rate and high vacuum (eliminating the need for a separate high vacuum gauge) & will be overhauled,

HMI



### Upgrade Option #1 Warranty:

The leak detector is warranted for 5-years on the electronic circuit boards and 1 year on the new system components and unit overhaul. The warranty excludes all pumps, vacuum malfunction, and problems induced or directly attributed from the failure of the fore pump, rough pump, or Turbo molecular pump.

## Option 2: MS-50 Legacy upgrade – \$37,000.00

\*Same as option 1 except with new rotary vane vacuum pumps

A new rotary vane fore and rough pumps are included & the unit is upgraded to a MS-50GT WET.

Contact VIC to check system eligibility

### Upgrade Option #2 Warranty:

The leak detector is warranted for 5-years on the electronic circuit boards and 2-years on the new system components, rotary vane pumps and unit overhaul. The warranty excludes the Turbo molecular pump, vacuum malfunction, consumables, and problems that are induced or directly attributed from the failure of the Turbo molecular pump.

## Option 3: Trade-in credit towards a new MS-50GT Wet

\$2,200 trade-in credit for your existing Legacy MS-50 Wet towards the purchase of a new MS-50GT MS-50GT High Production Console Helium Leak Detector (115V/60Hz)

### Trade-in Warranty:

The leak detector is warranted for 5 (five) years on the major system components; i) Electronic circuit boards, ii) Ion Source "includes filaments and includes exposure sampling to large Helium Concentrations encountered frequently", iii) Single Sector Shell, iv) Collector Assembly, v) Magnet Gauss. Warranty excludes consumables.