

# HeliTest Rack



Varian's HeliTest Rack is designed to specifically meet the industrial requirements of leak detection applications. It features our patented Selective Ion Pump Detector (SIPD) technology and is ideal for users in need of *fast, dry, and sensitive* leak detection testing. This product is an excellent choice when your

maximum acceptable leak is bigger than  $2 \times 10^{-5}$  std cc/sec. It can detect leaks only in sniffer mode so it isn't suitable for vacuum tests.

The unit can be integrated into automated test systems and through its interfaces – analog or RS232 – can easily communicate with a PLC or a PC-based system. Each unit is equipped with a standard front panel, which allows for direct interaction.

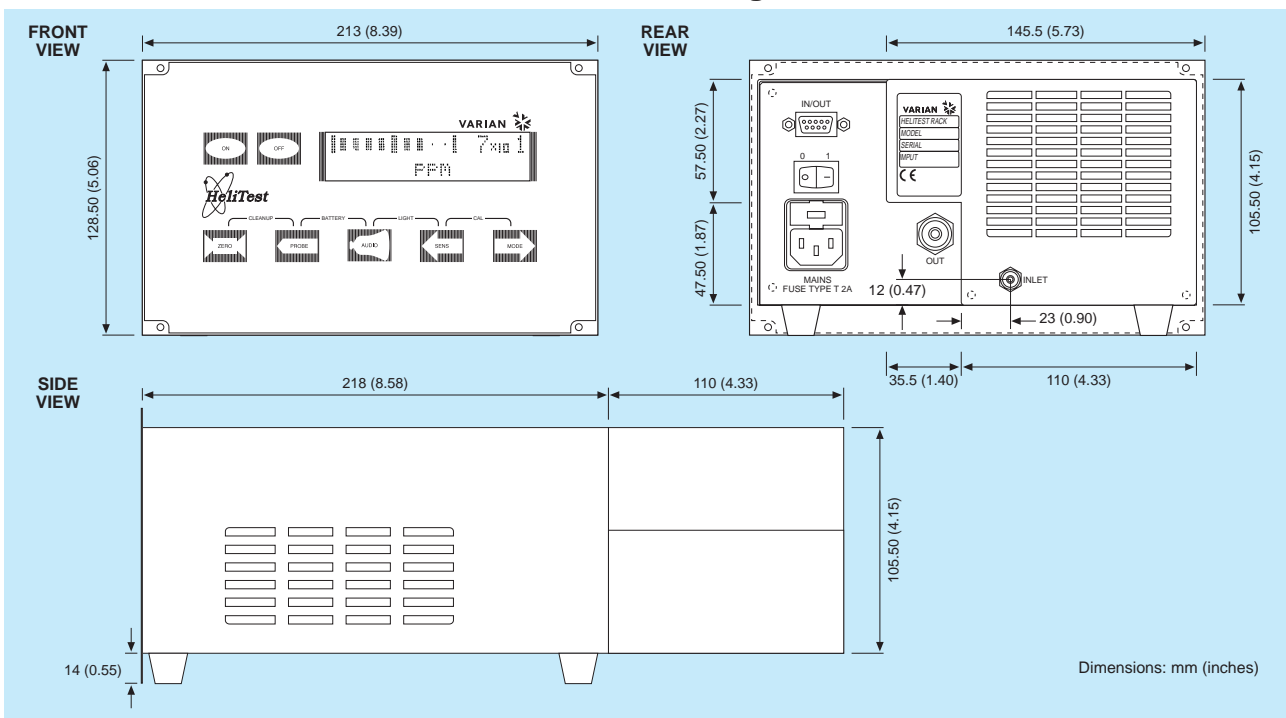
Varian's HeliTest Rack is the ideal entry-level helium leak detector. It offers high performance combined with a low cost of ownership, providing an effective upgrade from pressure decay, bubble, and ultrasound leak testing.

### Applications:

Varian's high-performance HeliTest Rack was successfully used to leak check:

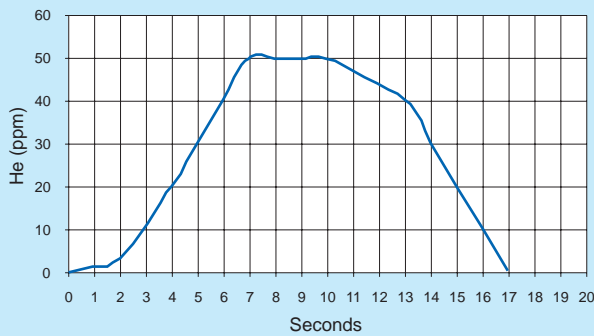
- Automotive parts
  - Fuel tanks
  - Fuel injectors
  - Fuel distribution
  - Brake circuit components
  - Plastic containers (water, oil, etc.)
- Valves
- Heater exchangers
- Electrical switches (normally SF6 insulated)
- Food packages

### Outline Drawing



# HeliTest Rack

## RESPONSE TIME WITH A 50 PPM MIXTURE



Response times:

- Less than 1 second to receive the Helium flow with a 2 meters (6 ft.) sampling line
- Less than 7 seconds to read 100% of the signal
- Less than 7 seconds to return to 0

## TECHNICAL SPECIFICATIONS

Input power supply: 115V or 230V 50/60Hz 70VA

Sampling pump: 7 L/min

Sensitivity: 2 ppm or  $2 \times 10^{-5}$  std cc/sec

Input /Outputs: Analog 0-5 V linear  
2 configurable set points  
Remote AZ/FZ function  
Ready signal  
or RS232

Weight: 4.5 kg (10 lbs)

Inlet: 3 mm e.d.

Outlet: 6 mm e.d.

Operating temperature: +5 °C ÷ 40 °C  
40 °F ÷ 105 °F

Start Up time: < 3 min

Standard sampling line: 2 m (6 ft.)

Optional sampling line: 10 m (30 ft.)

## Ordering Information

DESCRIPTION	PART NUMBER	SHIPMENT WEIGHT kg (lbs)
HeliTest Rack 115V with Analog output	969-3580	6 (13)
HeliTest Rack 230V with Analog output	969-3581	6 (13)
HeliTest Rack 115V with RS 232 output	969-3582	6 (13)
HeliTest Rack 230V with RS 232 output	969-3583	6 (13)

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All specifications are subject to change without notice.