

CE

ISO
9001 : 2015



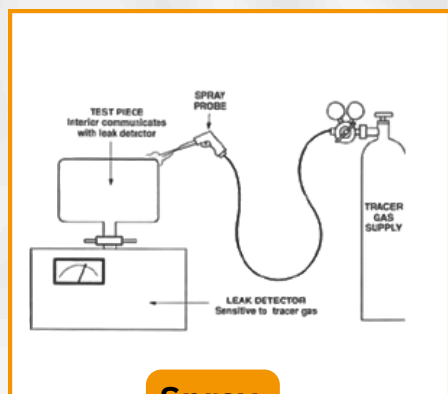
LEAK TEST SOLUTIONS



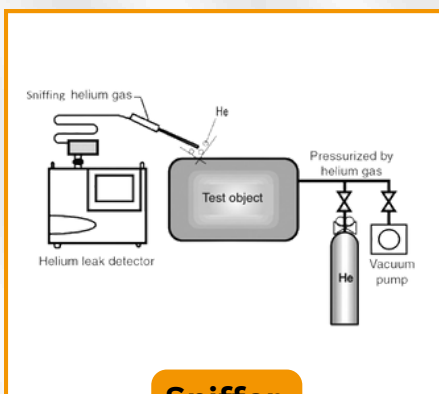
NXTEK

SOLUTIONS WITH THE POWER OF QUALITY

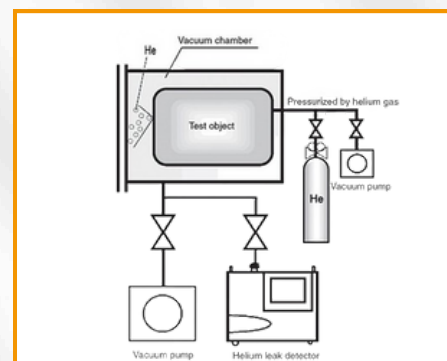
Helium Leak Test Methods



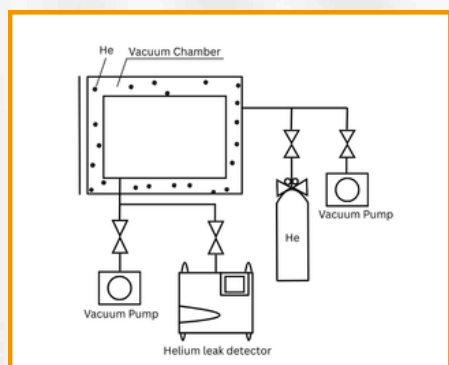
Spray



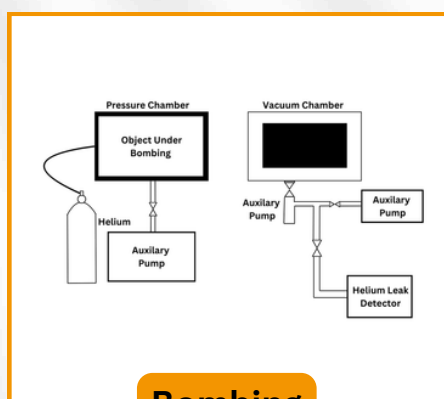
Sniffer



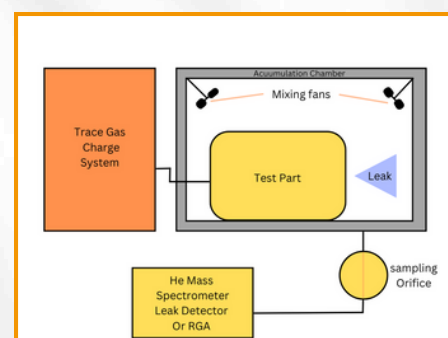
Vacuum Chamber Inside Out



Vacuum Chamber Inside in

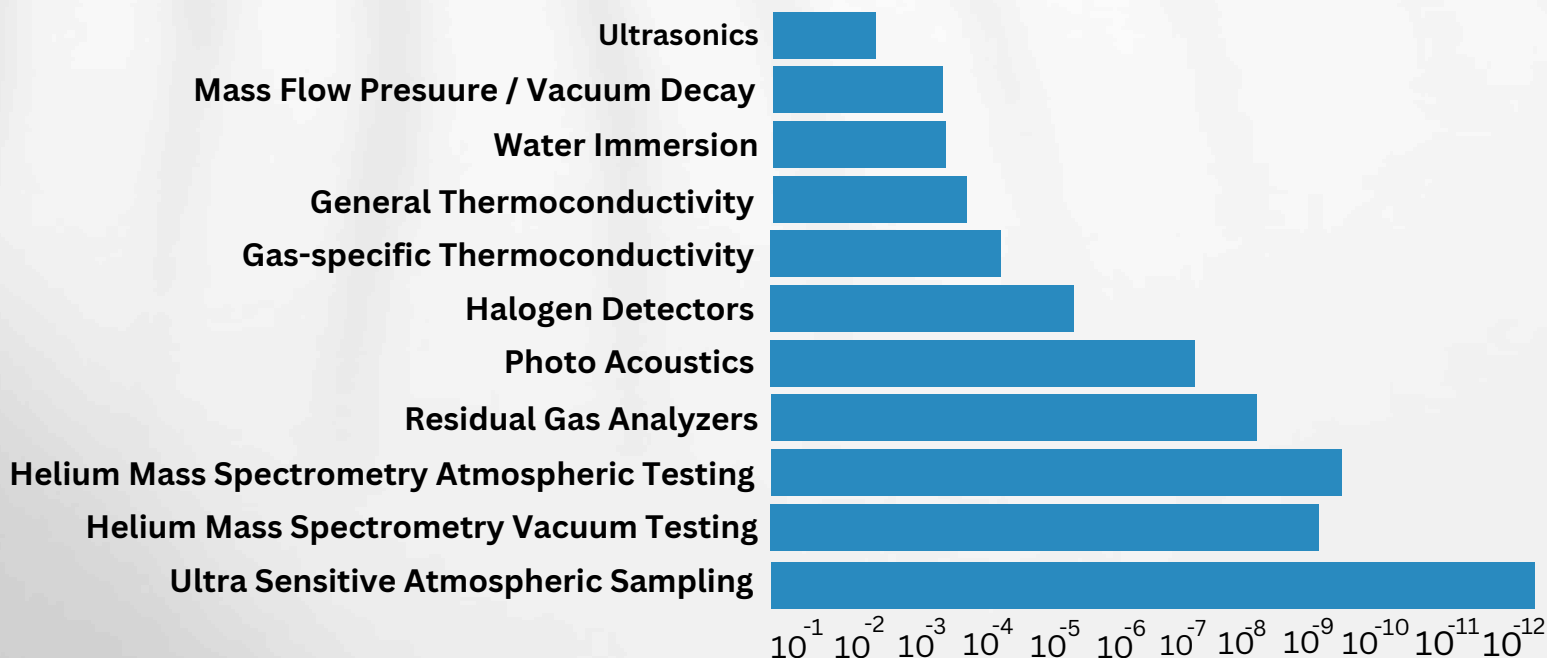


Bombing



Pressure Accumulation

Range of Leak Detection



Electrical



Automobile



HVAC/RAC



Medical/Pharma



Others



Why Helium

- **High Sensitivity:** The small molecular size of helium allows for the detection of extremely tiny leaks that other gases might not catch.
- **Inert Nature:** Helium is chemically inert, meaning it won't react with the materials being tested, ensuring that the test results are not compromised.
- **Non-Flammable:** The non-flammable nature of helium makes it a safe choice, eliminating the risk of fire during testing.
- **Versatility:** These machines are adaptable and can be used for a wide range of applications, from testing automotive parts to ensuring the integrity of spacecraft components.
- **Speed:** Helium leak testing is often faster than many other testing methods, saving valuable time in production or maintenance schedules.

HLTM For Ring Main Unit



- Test pressure - 300 mbar A
- Leak Test - 0.5% v/v SF6
- Cycle Time - 40 minutes
- Out side sniffer for leak location finding
- Protection to job agiants differecial presures
- Detection Method - Global sniffing inside vacuum chamber



HLTM For Bushing Current Transformers



- Test pressure - 8 bar
- Leak Test - 1×10^{-6} mbar l/s
- Cycle Time - 20 minutes
- Air Pressure Test - 16 bar
- Detection Method - Global sniffing inside-out vacuum chamber



HLTM For MV Switchgear Casting



- Test pressure - 8 bar
- Leak Test - $1E \cdot 10^{-7}$ mbar l/sec
- Cycle Time - 10 minutes
- Air Pressure Test - 20 bar
- Detection Method - Inside-out Vacuum Chamber



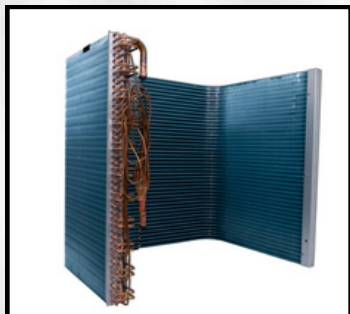
HLTM For Epoxy Transformer Bushings



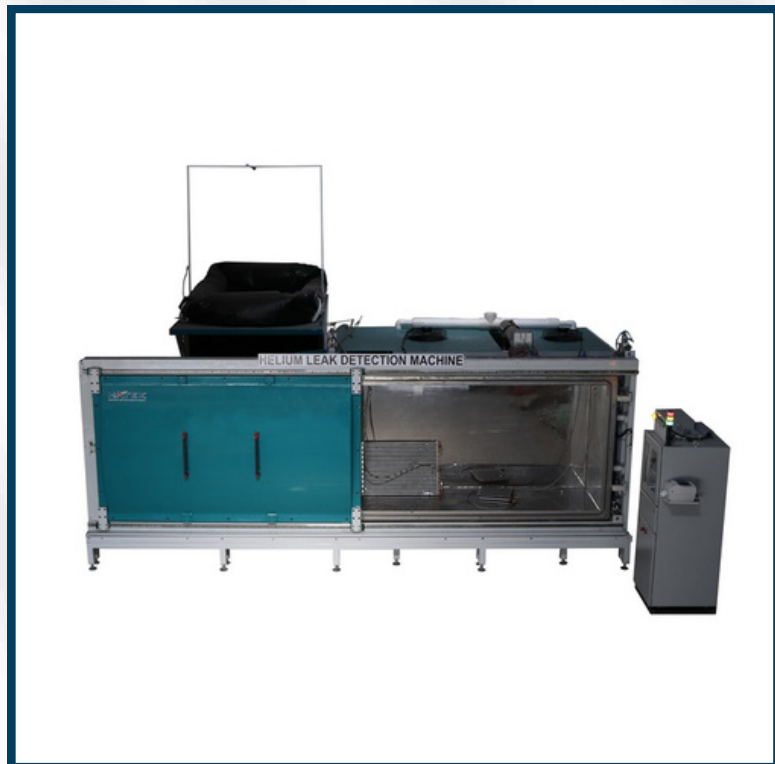
- Dual loading twin chamber
- Test Pressure - 1.5 bar A
- Leak Test - 1 - 8 m bar l/sec
- Cycle Time - < 5 Minutes
- Air Pressure Test - 2.6 bar A



HLTM For Air Conditioning Coils



- Test pressure - 42 bar
- Leak Test - 0.5 g/a R22/R143 A
- Cycle Time - <4 minutes for 4 product
- Air Pressure Test - 45 bar
- Detection Method - Inside-out Vacuum Chamber
- Outside pressure test and sniffing



Recovery With Sniffer For Aluminium AC Coil



- Test pressure - 42 bar
- Leak Test - 2 g/a
- Cycle Time - 2 minutes
- Air Pressure Test - 45 bar
- Detection Method - Sniffing with recovery



Helium Recovery Unit

- Recovery Capacity - 500ltr to 1500ltr
- Rate of Recovery - 95%
- Recovered Concentration - >90%
- Compressor Capacity - Upto 25 cfm
- Recovery Storage Pressure - 10 - 350 bar



HLTM For Medium Voltage Switchgear Aluminium Casting



- Test Pressure - 8bar - 10bar
- Leak Test - 1E^{-6} mbar l/s
- Cycle Time - 20-40 minutes
- Air Pressure Test - 16-20 bar
- Detection Method - inside-out vacuum chamber Global Sniffing



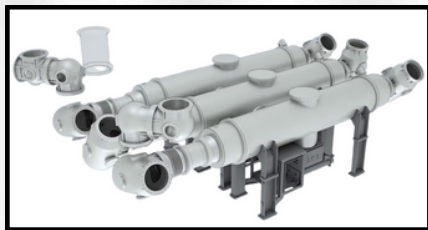
Helium Recovery For Fuel Tank



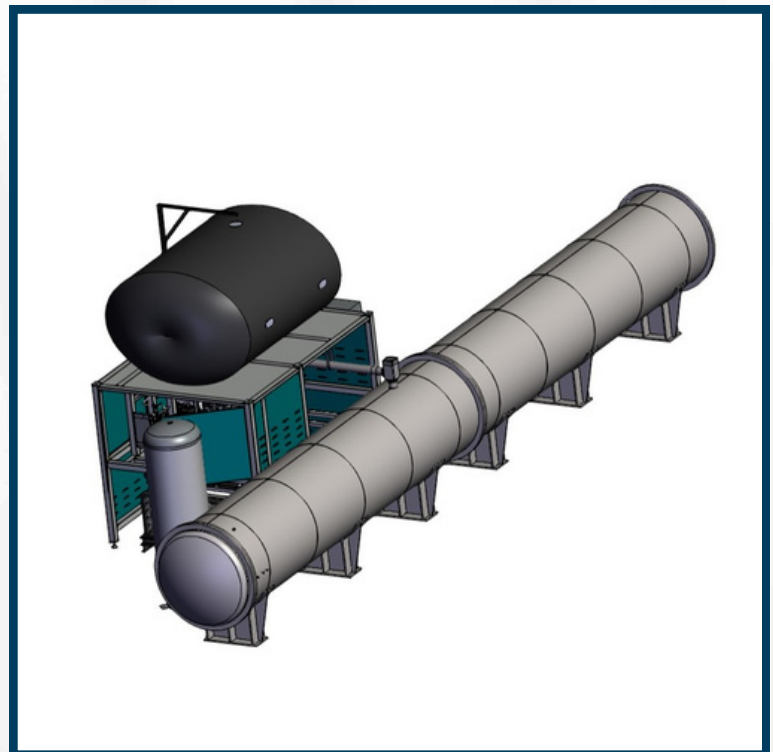
- Test Pressure - 300 mbar
- Leak Test - 1E -4mbar L/S
- Cycle Time - <40 seconds



HLTM For GIS Aluminium 10mtr Long Enclosure

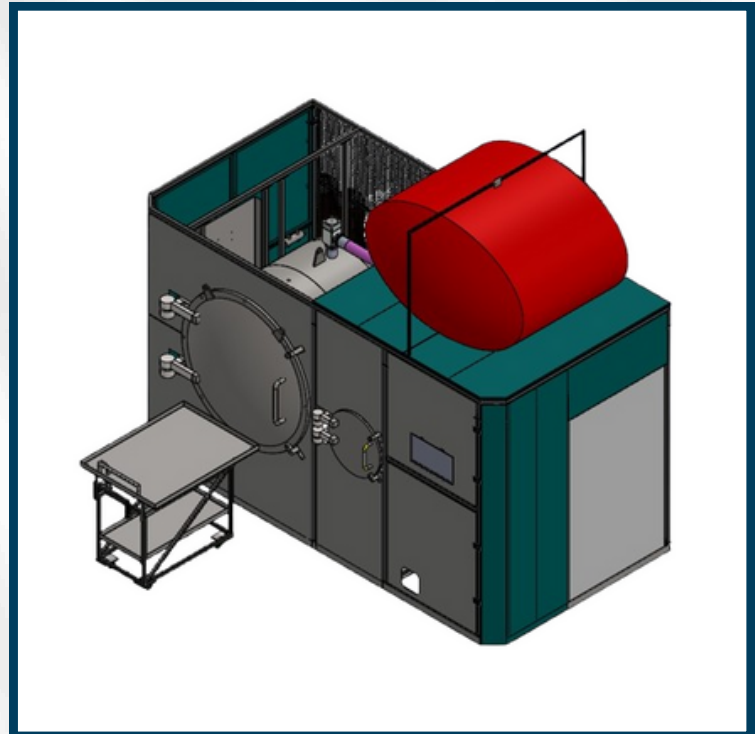


- Test Part - 10 mtr long
- Test Pressure - 8 bar
- Leak Test - 1×10^{-6} mbar L/sec
- Cycle Time - 45 minutes
- Air Pressure Test - 12 bar
- Detection Method - Inside-out vacuum chamber Global sniffing
- Vacuum Chamber - 12mtr * 1mtr
- Helium recovery - more then 95 %



HLTM For Aluminium Die Casting

- Double Chamber - Dual loading twin chamber
- Additional Outside Sniffing to find out leak
- Independent leak testing in each chamber
- Test Pressure: 8 to 14 bar
- Air Pressure Test - 16 to 20 bar
- Material - Trolley mounted Tres



Helium Recovery with Sniffer For GIS

- Test Pressure - 400 mbar A
- Leak Test - 1×10^{-6} mbar l/sec
- Cycle Time - 3 minutes
- Detection Method - Sniffing with recovery
- Recovery - up to 98%
- Nitrogen Filling after test pass



Trolley Mounted Gas Filling & Helium Sniffing Station

- Air Pressure - Upto 50 bar
- Helium Pressure - Upto 45 bar
- Sniffer Probe - Upto 20mtr
- Integrated with Helium Recovery
- Connectivity with SCADA for Data Collection



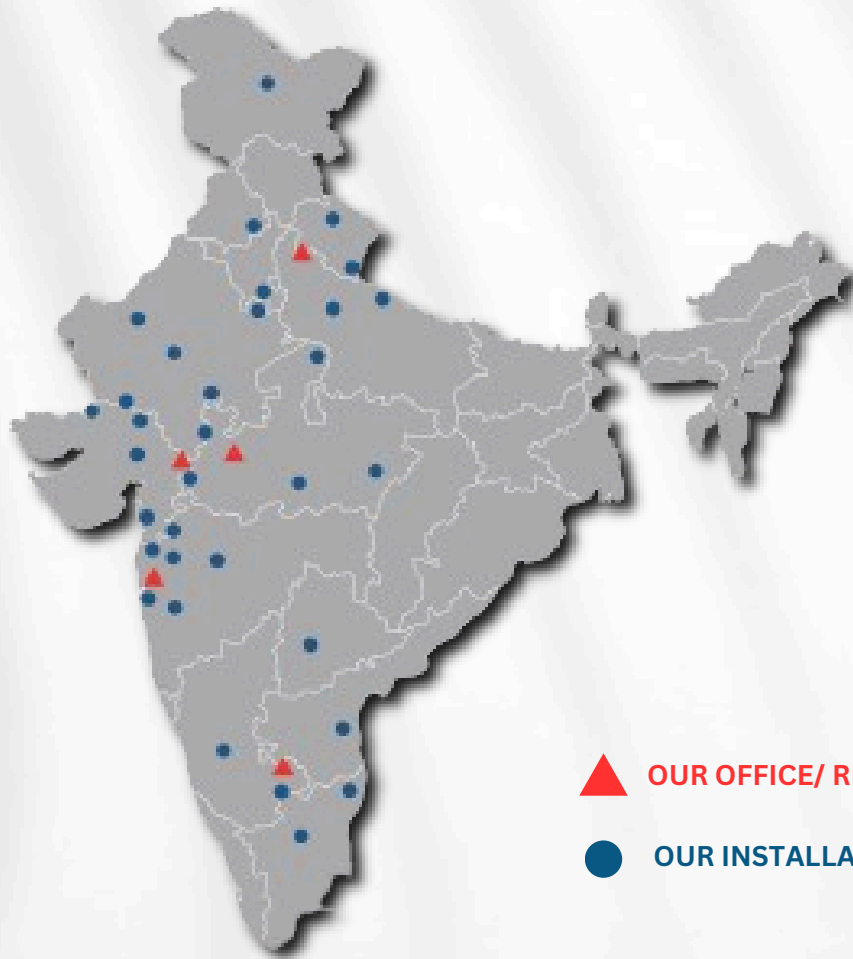
HLTM For Aluminium Sand Casting



- Test Chamber 3.3 mtr long x 2.1mtr depth
- Test Pressure - 7 bar A
- Leak Test - 1×10^{-6} mbar L/sec
- Cycle Time - 25 minutes
- Air Pressure Test - 14 bar A
- Detection Method - inside-out Vacuum Chamber
- ASME Certified Test setup



Our Valuable Client's



- ▲ OUR OFFICE/ REPRESENTATIVES
- OUR INSTALLATIONS

🏠 Plot-9, block-338, old survey no-400/1 kashipura behind por GIDC Vadodara 391243 Gujrat

☎ 0265 3194446

📞 +91 9023731215

✉ info@nxtek.co.in

🌐 www.nxtek.co.in

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