

# Helium inspection of outdoor communication battery cabinets in the UK





## Overview

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What is helium leak testing?

**Battery:** In the energy industry, helium leak testing is used to test the integrity of the battery pack, battery housing, and even pouches and cells to prevent leaks and ensure safety. **Military:** In military applications, helium leak testing is vital for ensuring the reliability of weapons systems, communication equipment, and vehicles.

How do I use helium sniffing leak testing equipment?

Fill / charge the internal volume with helium. Only a small pressure is required, e.g. 2-3 psig. Examples of previous helium leak testing equipment supplied by TQC are shown in our case studies. TQC can provide helium sniffing leak test solutions for all types of components in a variety of different industry applications.

Can a mass spectrometer detect helium leak?

In most helium leak testing applications, a mass spectrometer is used to detect helium. Although, it is also possible to use a residual gas analyser. Helium leak testing can generally be between one thousand and one million times more sensitive than using pressure decay techniques. What are the benefits of Helium Leak Testing?

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What is optvol helium leak testing?

OptVol is a compact, all-in-one helium leak testing solution. Capable of detecting leaks as small as  $5.0e-06$  mbarL/s, Accuro is a high-performance mass spectrometry leak testing system designed to work without a vacuum setup.



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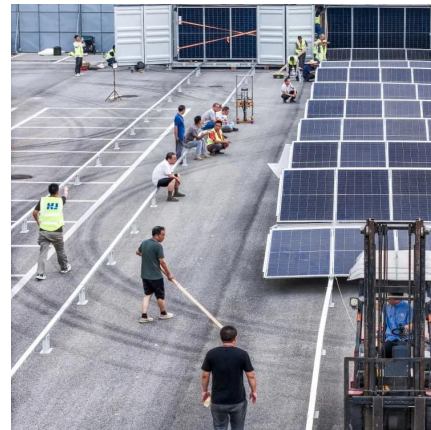


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### [Helium Sniffing Leak Test Methods using Helium Sniffers , TOC](#)

The helium sniffing leak test is a method that uses helium as a tracer gas in combination with instrumentation that can detect presence of helium in the environment and more specifically ...

### [Leak Testing Of Battery Cells By Helium Tracing](#)

Leak testing is a fundamental operation in the battery cell production process, in particular for the new generations of lithium-ion secondary batteries. The perfect sealing of the housing is one ...



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