




Hydrogen Isotope Selective Pumping Unit (HISPU)



Specifications

- Getter Trap
- Liquid Nitrogen Trap
-  Certified

The Hydrogen Isotope Selective Pumping Unit is a standalone system designed to be used inline during vacuum leak testing between a separate Helium leak detector and test volume. The purpose of this system is to remove water vapor and isotopes of Hydrogen from the gas sample stream coming from the test volume in order to increase Helium leak detection sensitivity at the Helium leak detector.

Large volumes with unbaked stainless steel walls will be leak tested using this system. This system is equipped with a Liquid Nitrogen Trap to remove the condensable gasses and a Getter Trap to remove the Hydrogen Isotopes. Hydrogen is the significant outgassing species after water vapor. Additionally, hydrogen isotopes are a major background gas when leak checking components/systems that were immersed in them during operations. There is a need for hydrogen isotope selective pumping units between standard leak detector units and the test volume to remove the hydrogen isotope (and water vapor) background to increase helium leak detection sensitivity.