

# Helium-Leakage Test

TECH. DOCUMENTATION

Laboratory equipment

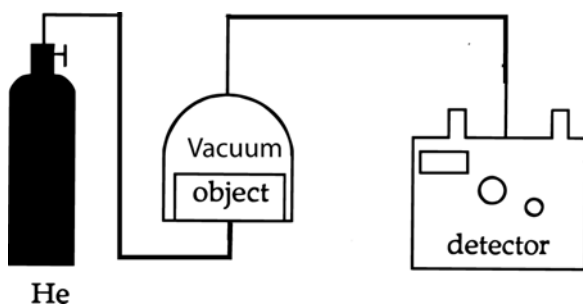
Test-equipment **Helium Leak Detector**  
 Manufacturer **Pfeifer Vacuum GmbH**  
 Type **QualyTest™ HTL260**  
 Purpose **Leakage detection with Helium**  
 Measure unit **mbar · l / s**  
 Measurable quantity min  **$5 \times 10^{-12}$  acc. AVS 2.1**  
 max **1**  
 Medium  **$^3\text{He}$  , 4.6**  
 Monitoring<sup>1</sup> /Calibration **Externally/built-in**  
 Documentation/Protocol **connection to computer possible**  
 Main method used for **detection by sniffing**



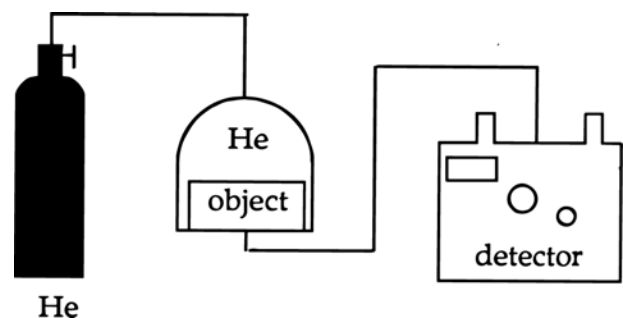
Methods		fix	Parameter	
			standard	optional
Pressure (state in object)	Temperature (C°)		23	- 40 to + 180
	Pressure (bar)		10	1- 30
	Environment		vacuum : $10^{-5}$ mbar	
	Humidity		Ambient air	0 – 90%
	Medium		$^3\text{He}$ , 4.6	$\text{H}_2$
	suitable for		Tube unions and valves Brass, Stainless steel , carbon-steel	

Method		fix	Parameter	
			standard	optional
Vacuum (state in object)	Temperature (C°)		23	
	Pressure (bar)	$10^{-5}$ mbar	$10^{-5}$ mbar	
	Environment		$^3\text{He}$ (80%)/ambient air	
	Medium		$^3\text{He}$ , 4.6	$\text{H}_2$
	size of vessel		$\varnothing$ 100mm /L =250	$\varnothing$ 200mm /L =350
	suitable for		Tube unions and valves Brass, Stainless steel , carbon-steel	

Pressure



Vacuum



<sup>1</sup> According to internal QA – Documentation XDB-AA200-003