

## Q1.1.4-LHeH2 - Helium and Hydrogen Liquefaction System

Q1.1.4- QPure-H2He



QLHe100 Quantum Helium / Hydrogen Liquefier 100L/day

### Product Description

Introducing the Quantum Helium and Hydrogen Liquefaction System. Designed to liquefy and recycle helium and liquefy hydrogen, this system can be coupled with a custom-made cryostat to create a temperature controlled environment of 20K for hydrogen and between 5-30K for helium, +/- 1K. Our bespoke cryostats can be designed for materials testing, such as diffusion experiments or mechanical strength tests at a set cryogenic temperatures. Recover and reliquefy the helium boil-off for efficient waste reduction.

### Features

- Dual gas (Helium & Hydrogen) liquefaction capabilities
- Can liquefy gas either from cylinder or experimental equipment
- Hydrogen liquefaction to EU standards
- New safety features
- ATEX certified design

### Options

- Adjustable layouts to fit into most lab spaces.
- Manual to fully automatic options available.
- Dual bed purifier for around the clock operation.
- Mobile liquefier or extra long transfer line available for direct instrument transfers.
- Liquid nitrogen and cryogen free purifier options available.

### Specifications (Typical)

Liquefaction Rate	100L/day
Dewar size	350 liters
Cooldown Time	< 40hrs
Cooling Water	35l/min
Power @60Hz	39kW
Power @50Hz**	32kW
Weight	2,247 lbs (1,019 kg)
Maintenance Interval:	
Compressor	>3 Years
Coldhead	>2 Years

If you are looking to liquefy Helium or Hydrogen for your experiments, QUANTUM may have a solution for you. Call +1 604 222 5539 to connect with our technical/sales staff.