

Helium Recovery Solutions

POU (Point-of-Use) Helium Recovery System

Low cost solution suitable for helium recovery from one or more feed points with a total helium requirement of up to 300 l/min and pressure of up to 100 psig.



Description

MATHESON offers a wide range of comprehensive helium recovery solutions designed to meet the specific requirements of our customers' manufacturing processes:

- **Leak detection**
- **Optical fiber cooling**
- **Vacuum heat treating**
- **Plasma melting**
- **Laser welding**
- **Semiconductor manufacturing**
- **Superconducting magnet cooling**

Compact and easy to use, MATHESON's helium recovery systems are available in point-of-use and plant-wide configurations and range in capacity from 20 l/min to up to 3000 scfm.

MATHESON's helium recovery systems are capable of recycling helium at pressures of up to 2500 psig and feature real-time monitoring of recycled helium purity.

MATHESON also offers a wide range of purifiers that can be integrated with the recovery system to remove contaminants to below 0.1 ppb (parts per billion) and are limited only by the detection limits of state-of-the-art analytical instrumentation.

Features

- High recovery efficiency (as high as 99% depending on the application)
- Automatic, unattended operation
- State-of-the-art process controls with Statistical Control and Data Acquisition capability
- Reduced maintenance requirements
- Reduced installation and startup time and costs
- Minimized operating costs and utility requirements

Plant-Wide Helium Recovery System

Virtually no limit on the number of feed points, recovered helium purity and flow variability, recycled helium flow and pressure requirement, or recycled helium purity. MATHESON's helium recovery systems are suitable for outdoor installation.



MATHESON is dedicated to enhancing its customers' success by understanding your specific project requirements and providing value added solutions. In addition to the supply of helium recovery equipment, MATHESON stands ready to assist in every phase of your helium recovery and recycle solution implementation, including:

- Supply of virgin helium and calibration gas standards
- Custom engineering
- Site-specific Process Hazard Analysis studies
- Helium recovery and distribution piping system design
- Equipment delivery
- Turn-key installation service inclusive of equipment foundations and shelter building
- On-site services
- Comprehensive post-sale service and support inclusive of maintenance and performance optimization
- Equipment sale and lease options available

For more information, contact:

Gary Shed, P.E.

Director Gas Applications Center

Phone: 908-991-9264

Email: gshed@mathesongas.com

www.mathesongas.com



MATHESON
The Gas Professionals