

# Advanced **Technology** Liquefiers

## Automated 80 and 160 Liter Capacity Helium Liquefiers

Quantum Design's Advanced Technology Liquefiers (ATL) along with its innovative Helium Recovery, Storage & Purification Systems allow you to recover the helium gas currently being lost from the normal boil off and helium transfers of your MEG and other cryogenic instruments.

### Advanced Technology Liquefiers Provide:

- Easy-to-Use, Fully Automated Operation
- Portable Liquefiers for Easy Transfers
- High Liquefaction Rates; Energy Efficiency
- Self-Cleaning, Uninterrupted Service
- No Gas Cylinders Needed for Helium Transfers

### **ATL160**

Dewar Capacity: 160 liters

Liquefaction Rate: Greater than 22 liters / day\*

Fully Automated Touch Panel Control

### **ATL80 (also available)**

Dewar Capacity: 80 liters

Liquefaction Rate: Greater than 12 liters / day\*

Fully Automated Touch Panel Control

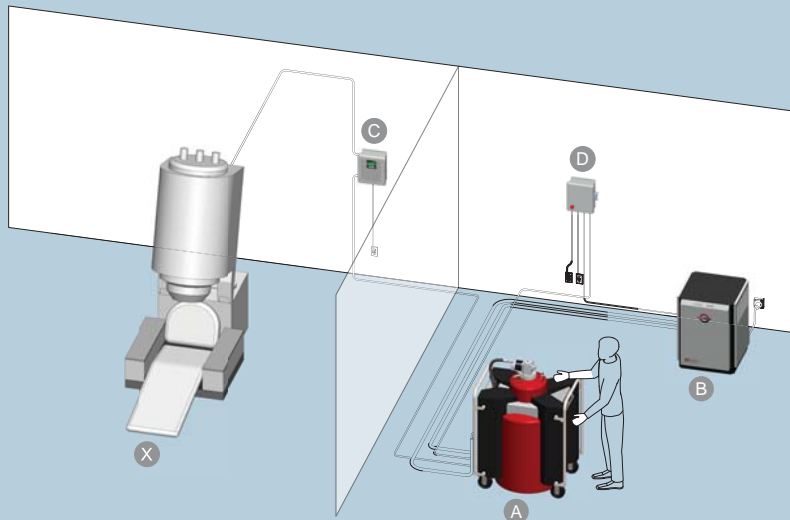
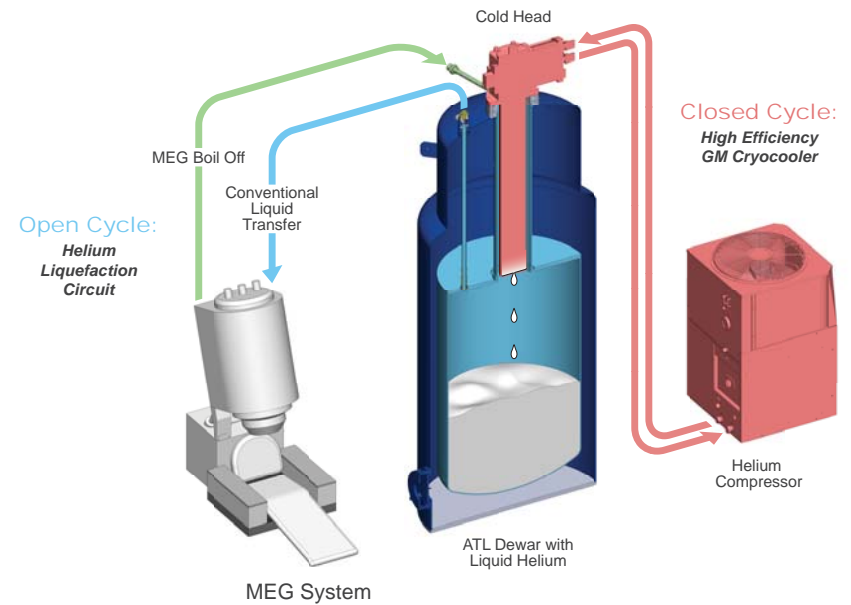
Integrated Compressor



*\*Liquefaction rates vary based on input helium quality and pressure.*

# Direct Recovery - MEG

- An MEG consumes liquid helium at a low rate, but reliability of helium supply is crucial
- Serious space limitations of most MEG centers necessitates a compact liquefier solution
- Advanced automated features and high energy efficiency of ATL ideal complement for modern MEG systems
- Designed for general users – Requires minimal training and is easily operated by MEG technicians
- ATL recovery systems already have been successfully installed in many MEG centers
- Quantum Design's global service network guarantees prompt technical support and onsite response when needed



ATL Recovery Systems can be customized for all MEG Centers

## Direct Recovery (DR)

- A – ATL
- B – ATL Compressor
- C – Back Pressure Controller
- D – ATL Power Distribution Unit
- X – Customer MEG

Center with single or multiple MEGs  
 Provides up to 14 liters/day in Direct Recovery mode  
 Recover 100% normal boil off; Transfer boil off augmented with external Helium gas cylinders through *dual gas inputs*