

# 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 NMR 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

#### **ATL160**

Dewar Capacity: 160 liters

Liquefaction Rate: Greater than 22-27 liters / day\*

Fully Automated Touch Panel Control

#### New! **ATL160+**

Now with a Liquefaction Rate of

**30+ liters/day!**

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

Dewar Capacity: 80 liters

Liquefaction Rate: Greater than 12 liters / day\*

Fully Automated Touch Panel Control

Integrated Compressor

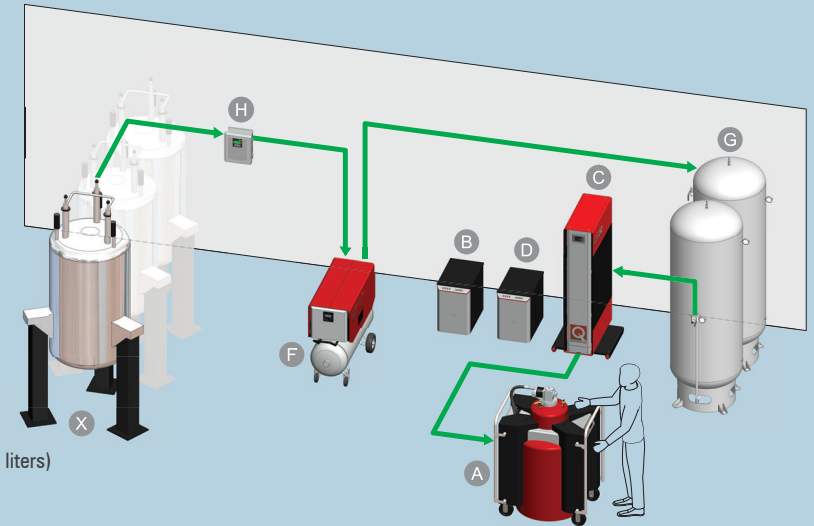


*\*Liquefaction rates vary based on input helium quality and pressure.*

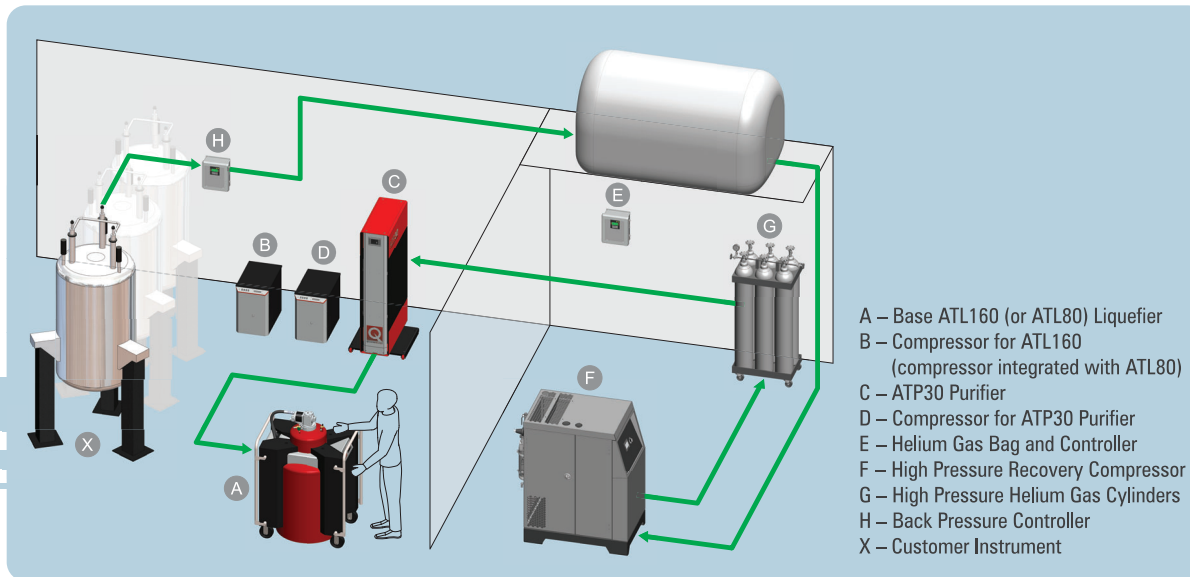
# Liquefier Recovery Systems for **NMR** Labs

## Medium Pressure Recovery System Components

Recovery System with Medium Pressure Storage:  
Recover, Store and Purify Helium from Normal and Transfer Boil Off  
Perfect for 1 - 3 Cryogenic Instruments



- A – Base ATL160 (or ATL80) Liquefier
- B – Compressor for ATL160  
(compressor integrated with ATL80)
- C – ATP30 Purifier
- D – Compressor for ATP30 Purifier
- F – AT Recovery Hub - MP
- G – Medium Pressure Storage Tank (1000 liters)
- H – Back Pressure Controller
- X – Customer Instrument



- A – Base ATL160 (or ATL80) Liquefier
- B – Compressor for ATL160  
(compressor integrated with ATL80)
- C – ATP30 Purifier
- D – Compressor for ATP30 Purifier
- E – Helium Gas Bag and Controller
- F – High Pressure Recovery Compressor
- G – High Pressure Helium Gas Cylinders
- H – Back Pressure Controller
- X – Customer Instrument

## High Pressure Recovery System Components

Recovery System with High Pressure Storage:  
Recover, Store and Purify Helium from Normal and Transfer Boil Off  
Perfect for Multiple Instruments and Large Laboratories

Developed In Collaboration With:

