

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

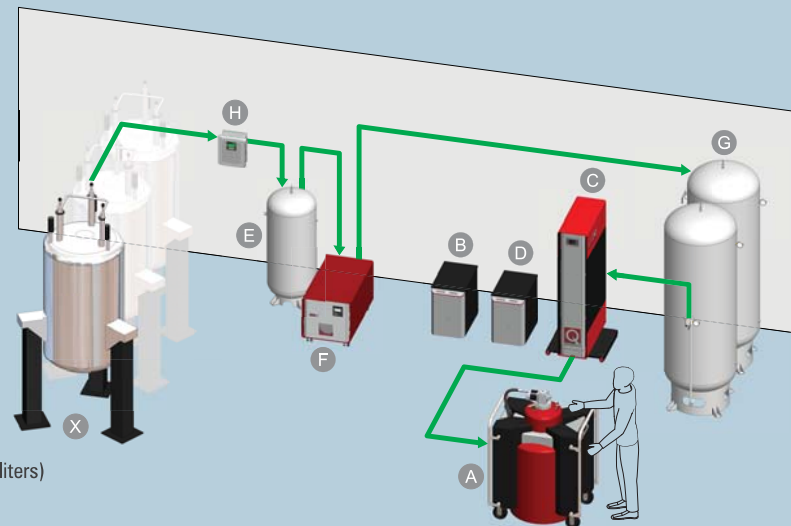


**Liquefaction rates vary based on input helium quality and pressure.*

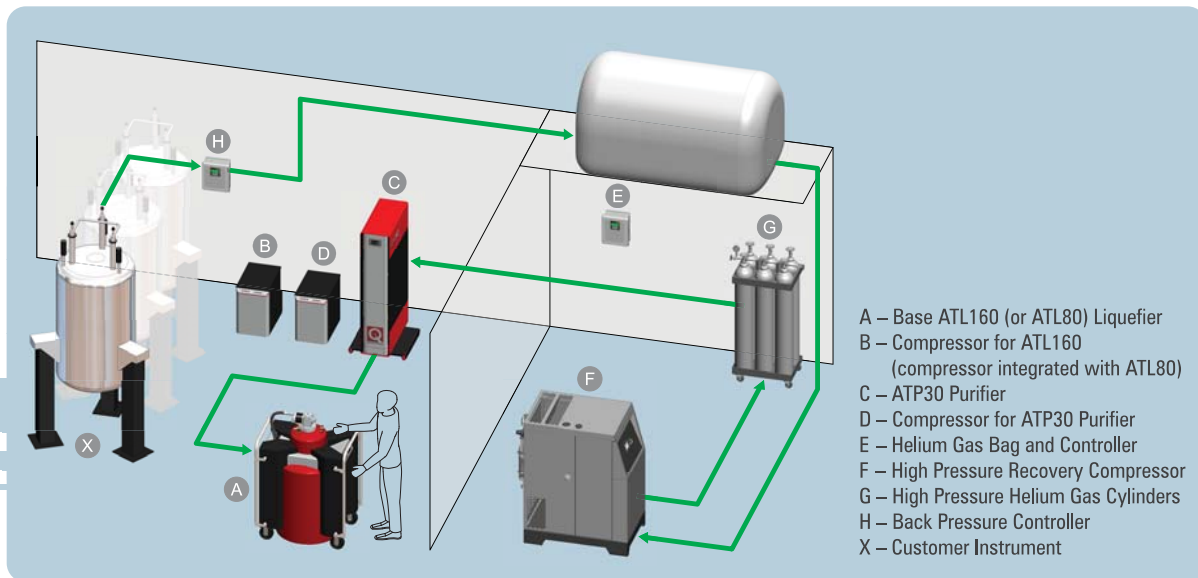
Liquefier Recovery Systems for **NMR** Labs

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
- E – Low Pressure Buffer Tank
- 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:

