



Quantum Design

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 cryogenic instruments.



ATL160

Dewar Capacity: 160 liters
Liquefaction Rate: Greater than 22 liters / day*
Fully Automated Touch Panel Control



ATL80

Dewar Capacity: 80 liters
Liquefaction Rate: Greater than 12 liters / day*
Fully Automated Touch Panel Control
Integrated Compressor

Advanced Technology Liquefiers

Provide:

- Easy-to-Use, Fully Automated Operation
- Portable Liquefiers for Easy Transfers
- High Liquefaction Rates; Energy Efficiency
- Self-Cleaning, Uninterrupted Service
- Modular Design: Your System Can Grow as Your Helium Needs Evolve

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

80 Liter Advanced Technology Liquefier (ATL80)

Average Liquefaction Rate:	12 liters/day (0.50 liters/hr) *
Dewar Capacity:	80 liters
System Dimensions (L x W x H):	62L x 30W x 61H in
Compressor Package Model:	Air-Cooled
Typical Power Consumption and Voltage Range:	3.8-5.4 KW; High & Low Voltage Available
Gaseous Helium Requirement:	Flow Rate: 0 - 25 SLPM (0 - 0.88 SCFM); Industrial Quality He (99.99%); 0-10 psi

160 Liter Advanced Technology Liquefier (ATL160)

Average Liquefaction Rate:	22 liters/day (0.92 liters/hr) *
Dewar Capacity:	160 liters
System Dimensions (L x W x H):	41L x 30W x 59H in (liquefier only)
Compressor Package Model:	Split Air-Cooled or Water-Cooled
Typical Power Consumption and Voltage Range:	6.5-7.5 KW; High & Low Voltage Available
Gaseous Helium Requirement:	Flow Rate: 0 - 25 SLPM (0 - 0.88 SCFM); Industrial Quality He (99.99%); 0-10 psi

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

Liquefiers Available With the Following Recovery Systems:

- Direct Recovery: Most Simple System – Use Either ATL System to Reclaim Helium Lost Through Normal Boil Off
- Recovery System with Medium Pressure Storage: Recover, Store and Purify Helium from Normal and Transfer Boil Off – Perfect for 1 or 2 Cryogenic Instruments
- 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:



Universidad
Zaragoza



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