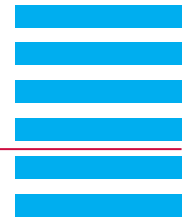


# ATL Advanced technology liquefiers

## Automated Helium liquefiers



ATL 80 with 80 liters dewar capacity



ATL 160 with 160 liters dewar capacity

Quantum Design's advanced technology liquefiers (ATL) along with its innovative Helium recovery storage and purification systems allow you to recover the Helium gas currently being lost from the normal boil off and Helium transfers of your cryogenic instrument.

### The ATL Helium plant provides:

- 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

Specification	ATL 80	ATL 160
Average liquefaction rate	12 liters/day (0.5 liters/hour)	22 liters/day (0.92 liters/hour)
Dewar capacity	80 liters	160 liters
System dimensions (L x W x H)	157 x 76 x 155 cm	104 x 76 x 150 cm
Compressor package model	Air-cooled	Split-air-cooled or water-cooled
Typical power consumption and voltage rate	3.8 – 5.4 KW High and low voltage available	6.5 – 7.5 KW High and low voltage available
Gaseous Helium requirement	Flow rate: 0 – 25 standard liter/minute Industrial quality He (99.99%); 0 – 0,69 bar	Flow rate: 0 – 25 standard liter/minute Industrial quality He (99.99%); 0 – 0,69 bar

Liquefaction rate 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.

