NexGen Helium Liquefiers & Purifiers

The Next Generation of Helium Recycling

Product Description

Quantum Design's NexGen liquefiers and purifiers allow you to recycle the helium gas currently being lost from the normal boil off and helium transfers of your cryogenic instruments. An adaptable helium recycling solution for research and medical cryostats, these helium liquefiers and purifiers allow you to always have access to a supply of liquid helium without being reliant on suppliers of cryogens or subject to unpredictable price changes. You will also be doing your part to conserve a precious natural resource which is vital to scientific research and medical treatment.

Liquefier Features

- Easy-to-Use, Fully Automated Operation
- Portable Liquefiers for Easy Transfers
- 250 Liter Capacity Allows Larger Transfers!
- High Liquefaction Rates; Energy Efficiency
- Liquefies at 1 PSIg so Helium is Ready When You Need It
- Optional Variable Speed, "Smart Energy" Compressor
- Self-Cleaning, Uninterrupted Service
- Modular Design: Your System Can Grow as Your Helium Needs Evolve





Ease of Use

Quantum Design's liquefiers have been developed for general users, with friendly, touch-screen user interfaces and remote access available over the internet. Fully automated operation allows you to spend your time on your work, not cryogen maintenance. And unlike industrial liquefiers, their small, portable size is doorway and ramp friendly, with a transfer process that is as easy as transferring from your current storage dewars. All of these features make the recovery and transfer of liquid helium more convenient than ever.

ATP30 Purifier Features

- Purifies helium gas to 99.9995%
- Ensures highest liquefaction rates possible
- Stops operation before "dirty" gas passes through system
- Regeneration easily through automated software
- Full regeneration of system in 5 hours

Specifications*

NexGen 160

Liquefaction Rate:

Dewar Capacity:

System Dimensions (L x W x H):

Compressor Package Model:

Power Consumption and Voltage Range:

Gaseous Helium Requirement:

20+ liters/day* (typical)

160 liters

104 x 71 x 152 cm (liquefier without compressor)

Water-Cooled (variable speed optional)

6.5 – 7.5 kW (typical); High & Low Voltage Available

Ultra-High Purity (UHP) He (99.999%)

NexGen 250

Liquefaction Rate:

Dewar Capacity:

System Dimensions (L x W x H): Compressor Package Model:

Power Consumption and Voltage Range:

Gaseous Helium Requirement:

20+ liters/day* (typical)

250 liters

114 x 81 x 160 cm (liquefier without compressor)

Water-Cooled (variable speed optional)

6.5 – 7.5 kW (typical); High & Low Voltage Available

Ultra-High Purity (UHP) He (99.999%)

ATP30

Purifies 30 liters of helium gas per minute** (typical)

Purifies helium gas to 99.9995% (better than UHP)

Full regeneration:

System Dimensions (L x W x H):

Compressor Package Model:

Typical Power Consumption and Voltage Range:

5 hours (no filters or cartridges to replace)**
64 x 70 x 150 cm (purifier without compressor)
Air-Cooled or Water-Cooled

6.5 – 7.5 kW; High & Low Voltage Available



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^{*} Liquefaction rates vary based on transfer frequency, input helium quality and pressure. In countries where the power line frequency is 50 Hz, the liquefaction rate can be 20% lower (unless using the variable speed compressor).

^{**} Purifier operation varies based on input helium quality.