

Q1.1 - QLHeXX Helium Liquefier Series



QLHe20 Quantum Helium Liquefier 20L/day

Features:

- GM cold head: more cooling power/ less energy consumption
- Fully automated and operates with no/minimal monitoring
- Large HMI touch screen+ Ethernet connection
- Auto-control including computerized pressure control, Safety protection unit
- Include standard LHe transfer line
- Easy to install, small floor footprint
- Can recover gas either from cylinder or experimental equipment
- 3 years warranty for cold head and compressors, 1 year for the balance of the liquefier

Options:

- Mobile unit
- Automatic LHe transfer line
- Customized System
- Complete Helium recovery system

Specification/ Model	QLHe20	QLHe40	QLHe60	QLHe80	QLHe100	QLHe200
Liquefy rate	24L/day	40L/day	60L/day	80L/day	100L/day	200L/day
Dewar size	100 liters*	150 liters*	150 liters*	250 liters*	350 liters*	500 liters*
Cooldown Time	< 30hrs	< 30hrs	< 30hrs	< 30hrs	< 30hrs	< 30hrs
Cooling Water Requirement	> 1.8 GPM - 7 l/min	> 3.6 GPM - 14 l/min	> 5.4 GPM - 21 l/min	> 7.2 GPM - 28l/min	> 9.0 GPM - 35l/min	> 18 GPM - 70l/min
Power Consumption	7.8kW@60Hz 6.5kW@50Hz	15kW@60Hz 13kW@50Hz	23kW@60Hz 19kW@50Hz	31kW@60Hz 26kW@50Hz	39kW@60Hz 32kW@50Hz	78kW@60Hz 64kW@50Hz
Weight	~262 lbs (118 kg)	~524 lbs (236 kg)	~786 lbs (354 kg)	~1048 lbs (472 kg)	~1310 lbs (590 kg)	~2600 lbs (1180 kg)
Compressor(s)						
Coldhead(s) + Dewar	320 lbs (145 kg)	550 lbs (250 kg)	620 lbs (280 kg)	780 lbs (355 kg)	937 lbs (425kg)	1670 lbs (756 kg)
Maintenance Interval	>3 Years	>3 Years	>3 Years	>3 Years	>3 Years	>3 Years
Compressor						
Coldhead	>2 Years	>2 Years	>2 Years	>2 Years	>2 Years	>2 Years
Dimensions (WxLxH)	76"x46"x80"	76"x46"x88"	76"x46"x88"	80"x48"x98"	80"x48"x98"	67"x90"x107"

*Different size of dewar are available upon request

If your helium bill is significant, QUANTUM may have a solution for you.

Call +1 604 222 5539 to connect with our technical/sales