

**NEW  
PRODUCT!**

**CRYOMECH**

## Liquid Helium Plant



LHeP12

The Cryomech Liquid Helium Plant is designed to produce liquid helium from any room temperature helium gas source such as the boil off of a cryostat, a helium gas tank, or a recovery system.

- < 24 hours between start up and liquid helium production
- Designed to be highly reliable with long mean times between maintenance
- Fully automatic level and pressure controls
- Easily assembled with on site technician
- Safe for laboratory use

### All Units are provided with:

- Dewar/ liquefier Assembly
- Vacuum Jacketed, Low Loss Extraction Line
- Level Probe and Indicator/ Control
- Silicone Diode Temperature Sensor
- Pressure Gauge
- Pressure Relief Valve and Burst Valve Assembly
- Pressure Activated Intake Valve

LHeP Warranty: 3 Years or 12,000 hours (whichever comes first) on parts and materials

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# CRYOMECH

## LHeP12

Liquefaction rate:	≥ 12 liter/ day (0.5 liter/hr) ≥ 3.2 gal/day (0.13 gal/hr)
Dewar Capacity:	60 Liters
System Dimensions:	53 in x 32 in x 60 in
Compressor Package Model:	CP2880 (Available water cooled only)
Compressor Package Weight:	263 LB (120 KG)
Compressor Package Dimensions (L x W x H):	19 x 18 x 22 IN (48 x 46 x 56 CM)
Power Consumption at Certified Capacities	7.2 kW @ 220/230 or 460 VAC, 3 phase, 60HZ 7.2 kW @ 200/220 or 380/420 VAC, 3 phase, 50Hz
Cooling water:	Minimum flow 2.3 GPM (9 LPM) @ 80°F (27°C)
Ambient Temperature Range:	45°F to 100°F (7 to 38°C)
Dewar Cool down time to liquefaction from 293 K	< 24 Hours
Gaseous helium requirement:	Flow rate: 9.7 SCPM (0337 SCFM) Purity 99%

## LHeP18

Liquefaction Rate (from room temperature gas):	≥ 18 liter/ day (0.75 liter/hour) ≥ 4.8 gal/day (0.2 gal/hour)
Dewar Capacity:	150 Liters
Systems Dimensions:	53.5 in x 30.5 in x 72 in
Compressor Package Model:	CP1010 (Available water cooled only)
Compressor Package Weight:	470 LB (214 KG)
Compressor Package Dimensions (L x W x H):	24 x 23 x 36 IN (61 x 58 x 91 CM)
Power Consumption	10.7 kW @ 220/230 or 460 VAC, 3 phase 60HZ 9.2 kW @ 200/220 or 380/420 VAC, 3 phase, 50Hz
Cooling Water:	Minimum flow 3.0 GPM (11.5 LPM) @ 80°F (27°C)
Ambient Temperature Range:	45°F to 100°F (7 to 38°C)
Dewar Cool down time to liquefaction from 293 K	< 36 Hours
Gaseous helium requirement	Flow rate: 9.7 SCPM (0.37 SCFM) Purity 99%