

CRYOMECH

Liquid Helium Plant Specification Sheet

LHeP18

Liquid helium production rate \geq 18 liter/day (0.75 liter/hour); 4.8 gal/day (0.2 gal/hour)

System parameters

Electrical rating 220/230 or 460VAC, 3Ph, 60Hz // 200/220 or 380/420VAC, 3Ph, 50Hz
Power consumption @ steady state 10.7 kW // 9.2 kW
Cooling water flow rate Minimum flow 3 GPM (11.5 LPM) @ 80°F (27°C) maximum temperature
Weight 1020 lb (463 kg)
Dimensions – L x W x H 53.5 x 30.5 x 72 in (136 x 77.5 x 183 cm)
Ambient temperature range 45°F to 100°F (7 to 38°C)
Maximum sound level 76 dBA @ 1 meter

Gaseous helium requirement

Flow rate 9.7 SLPM (0.34 SCFM)
Minimum purity 99.9%
Maximum inlet pressure 250 PSIG (17.2 bar)

Liquid helium dewar

Capacity 150 liters (39.6 gal)
Operating pressure:
Standard 1 PSIG (0.07 bar)
Maximum 10 PSIG (0.7 bar)

Cold head model PT415, mounted on dewar

Compressor package

CP1010
Helium pressure charge 200 \pm 5 PSIG (13.8 \pm .34 bar) @ 60 Hz
230 \pm 5 PSIG (15.9 \pm .34 bar) @ 50 Hz

Minimum footprint requirement 78 x 55 in (198 x 140 cm)

Shipping crate

Wood box
Weight 1350 lb (612 kg)
Dimensions - L x W x H 63 x 39 x 85 in (160 x 99 x 216 cm)