

CRYOMECH

Liquid Helium Plant Specification Sheet

LHeP12

Liquid helium production rate \geq 12 liter/day (0.5 liter/hour); 3.2 gal/day (0.13 gal/hour)

System parameters

Electrical rating 220/230 or 460VAC, 3Ph, 60Hz // 200/220 or 380/420VAC, 3Ph, 50Hz
Power consumption @ steady state 7.2 kW // 7.2 kW
Cooling water flow rate Minimum flow 2.3 GPM (9 LPM) @ 80°F (27°C) maximum temperature
Weight: 745 lb (338 kg)
Dimensions – L x W x H 53 x 32 x 60 in (135 x 81 x 152 cm)
Ambient temperature range 45°F to 100°F (7 to 38°C)
Maximum sound level 70 dBA @ 1 meter

Gaseous helium requirement

Flow rate 5.8 SLPM (0.2 SCFM)
Minimum purity 99.9%
Maximum inlet pressure 250 PSIG (17.2 bar)

Liquid helium dewar

Capacity 60 liters (16 gal)
Operating pressure:
Standard 1 PSIG (0.07 bar)
Maximum 10 PSIG (0.7 bar)

Cold head model PT410, mounted on dewar

Compressor package CP2880

Helium pressure charge 230 \pm 5 PSIG (15.9 \pm .34 bar) @ 60 Hz
260 \pm 5 PSIG (17.9 \pm .34 bar) @ 50 Hz

Minimum footprint requirement 77 x 56 in (196 x 142 cm)

Shipping crate

Wood box
Weight 970 lb (440 kg)
Dimensions - L x W x H 58 x 45 x 74 in (147 x 114 x 188 cm)