

CRYOMECH

Liquid Helium Plant Specification Sheet

Integrated LHeP22

<u>Liquid helium production rate</u>	≥ 22 liter/day (0.92 liter/hour)
<u>Initial system cool down</u>	35 hours from initial start up to full production rate
<u>Control System</u>	
Remote Monitoring	Ethernet connection
System status display	Integrated touch screen panel
Liquid Level Status	Fully automatic level monitor & pressure controller
<u>Cold head</u>	PT415 cold head mounted on dewar
<u>Helium compressor package</u>	CP1110 (water cooled only)
Weight	420 lbs (191 kg)
Dimensions - L x W x H	24 x 24 x 31 in (61 x 61 x 79 cm)
Electrical rating	200/230 or 440/480VAC, 3Ph, 60Hz // 200 or 380/415VAC, 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
<u>System Parameters</u>	
Helium pressure charge	230 ± 5 PSIG (15.9 ± .34 bar) @ 60 Hz 260 ± 5 PSIG (17.9 ± .34 bar) @ 50 Hz
Ambient temperature range	45°F to 100°F (7 to 38°C)

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Gaseous helium requirement

Flow rate	10.7 SLPM (0.38 SCFM)
Minimum purity	99.99%
Maximum inlet pressure	150 PSIG (10.3 bar)
Maximum sound level	76 dBA @ 1 meter

Liquid helium dewar/dolly/compressor

Capacity	150 liters (39.6 gal)
Operating pressure:	
Standard	3 PSIG (0.2 bar)
Maximum	10 PSIG (0.7 bar)
Weight	1040 lbs. (472 kg)
Dimensions - L x W x H	56 x 30.5 x 72 in (142 x 77.5 x 183 cm)

Minimum footprint requirements

LHeP22 Integrated System

L x W x H	70 x 48 x 75 in. (178 x 122 x 191 cm)
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Shipping crates

	1 Wood box
Weight	1450 lb (658 kg) each
Dimensions - L x W x H	62 x 38 x 83 in (158 x 97 x 211 cm)