

CRYOMECH

Liquid Helium Plant Specification Sheet

Integrated LHeP15

<u>Liquid helium production rate</u>	≥ 15 liter/day (0.63 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>	PT410 cold head mounted on dewar
<u>Helium compressor package</u>	CP289C (water cooled only)
Weight	295lbs (134 kg)
Dimensions - L x W x H	27 x 19 x 24.5 in (69 x 48 x 62 cm)
Electrical rating	220/230 or 460VAC, 3Ph, 60Hz // 200/220 or 380/420VAC, 3Ph, 50Hz
Power consumption @ steady state	8.4 kW // 7.9 kW
Cooling water flow rate	Minimum flow 2.3 GPM (9 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	7.3 SLPM (0.26 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	60 liters (15.8 gal)
Operating pressure:	
Standard	3 PSIG (0.2 bar)
Maximum	10 PSIG (0.7 bar)
Weight	790 lbs. (358 kg)
Dimensions - L x W x H	47 x 28 x 61 in (119 x 71 x 155 cm)

Minimum footprint requirements

LHeP15 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	1095 lb (497 kg) each
Dimensions - L x W x H	62 x 38 x 70 in (158 x 97 x 178 cm)