

CRYOMECH

1 K Cryostat Specification Sheet

PT410 with CP289C

Cryostat

Cool down time	ST102 <5 hour to no load temperature
Lowest temperature	1.6 K with no load
Cooling capacity	200 mW @ ≤ 2.0 K
Short term temperature stability	+/- 5 mK
Total weight	149 lb (67.6 kg)
Dimensions	See cryostat drawing

Compressor package

Weight	CP289C, available as water cooled only 295 lb (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

Flexible lines

Standard length	66 ft (20.1 m)
Weight per pair	72 lb (32.7 kg)

System parameters

Helium pressure	220 \pm 5 PSIG (15.2 \pm .34 bar) @ 60 Hz 250 \pm 5 PSIG (17.2 \pm .34 bar) @ 50 Hz
Ambient temperature range	45°F to 100°F (7 to 38°C)

Maximum sound level

Water cooled	70 dBA @ 1 meter
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