

CRYOMECH

Cryorefrigerator Specification Sheet

PT803 with CP830

Cold head

	PT803
Cooling capacity @ 60 Hz: 2 nd stage with unloaded 1 st stage	1.5W @ 10K
2 nd stage and 1 st stage combined	4W @ 20K with 8W @ 65K
Lowest temperature	< 8K with no load
Cool down time	60 minutes to 10K
Weight	24 lb (11 kg)
Dimensions	See cold head line drawing

Compressor package

	CP830, available as water or air cooled
Water cooled:	
Weight	165 lb (75 kg)
Dimensions - L x W x H	18 x 18 x 22 in (46 x 46 x 56 cm)
Electrical rating	208/230VAC, 1Ph, 60Hz // 200VAC, 1Ph, 50Hz
Power consumption @ steady state	3.4 kW // 3.4 kW
Cooling water flow rate	Minimum flow 1.2 GPM(4.5 LPM) @ 80°F(27°C) maximum temperature
Air Cooled:	
Weight	176 lb (80 kg)
Dimensions - L x W x H	19 x 22 x 22 in (48 x 56 x 56 cm)
Electrical rating	208/230VAC, 1Ph, 60Hz // 200VAC, 1Ph, 50Hz
Power consumption @ steady state	3.6 kW // 3.6 kW

Flexible lines

Standard length	10 ft (3 m)
Weight per pair	9.2 lb (4.2 kg)

System parameters

Helium pressure	200 ± 5 PSIG (13.8 ± .34 bar) @ 60 Hz TBD ± 5 PSIG (TBD ± .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
Air cooled	76 dBA @ 1 meter

Shipping crate

Weight	Wood box 328 lb (149 kg)
Dimensions - L x W x H	41 x 30 x 36 in (104 x 76 x 92 cm)