

CRYOMECH

Cryorefrigerator Specification Sheet

PT403 with CP830

Cold head

	PT403
Cooling capacity @ 50 and 60 Hz: 2 nd stage and 1 st stage combined	0.25W @ 4.2K with 7W @ 65K
Lowest temperature	2.8K with no load
Cool down time	90 minutes to 4K
Weight	24 lb (11 kg)
Dimensions	See cold head line drawing

Compressor package

	CP830, available as water or air cooled
Water cooled:	
Weight	167 lb (76 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	3.0 kW // 3.0 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	3.2 kW // 3.2 kW

Flexible lines

Standard length	10 ft (3 m)
Weight per pair	7.2 lb (4.2 kg)

System parameters

Helium pressure	220 ± 5 PSIG (15.2 ± .34 bar) @ 60 Hz 250 ± 5 PSIG (17.2 ± .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

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