

# CRYOMECH

## Cryorefrigerator Specification Sheet

### PT30 with CP820

#### Cold head

Cooling capacities (60Hz*)	PT30	16W @ 50K	23W @ 60K
*reduced capacities @ 50 Hz		30W @ 70K	37W @ 80K
Lowest temperature		35K with no load	
Cool down time		15 minutes to 80K	
Weight		13 lb (6 kg)	
Dimensions		See cold head line drawing	

#### Compressor package

Water cooled:	CP820, available as water or air cooled
Weight	135 lb (61 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	1.9 kW // 1.6 kW
Cooling water flow rate	Minimum flow 0.5 GPM (2 LPM) @ 80°F (27°C) maximum temperature
Air cooled:	
Weight	144 lb (65 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	2.1 kW // 1.8 kW

#### Flexible lines

Standard length	10 ft (3 m)
Weight per pair	6.4 lb (2.9 kg)

#### System parameters

Helium pressure	210 ± 5 PSIG (14.5 ± .34 bar) @ 60/50 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
	266 lb (121 kg)
Dimensions - L x W x H	41 x 30 x 36 in (104 x 76 x 92 cm)