

# CRYOMECH

## Cryorefrigerator Specification Sheet

### PT403-RM with CP830

#### Cold head

Cooling capacity @ 50 and 60 Hz: 2 <sup>nd</sup> stage and 1 <sup>st</sup> stage combined	PT403-RM 0.22W @ 4.2K with 6W @ 65K
Lowest temperature	2.8K with no load
Cool down time	90 minutes to 4K
Total weight	38 lb (17.3 kg)
Expander	25 lb (11.4 kg)
Remote motor	13 lb (5.9 kg)
Dimensions	See cold head line drawing

#### Compressor package

Water cooled:	CP830, available as water or air 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

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)