

# CRYOMECH

## Cryorefrigerator Specification Sheet

### PT405-RM with CP2850

#### Cold head

	PT405-RM
Cooling capacity @ 50 and 60 Hz: 2 <sup>nd</sup> stage and 1 <sup>st</sup> stage combined	0.45W @ 4.2K with 22W @ 65K
Lowest temperature	2.8K with no load
Cool down time	60 minutes to 4K
Total weight	41 lb (18.6 kg)
Expander	29 lb (13.2 kg)
Remote motor	12 lb (5.4 kg)
Dimensions	See cold head line drawing

#### Compressor package

	CP2850, available as water or cooled
Water cooled:	
Weight	243 lb (110 kg)
Dimensions - L x W x H	19 x 18 x 24.5 in (48 x 46 x 62 cm)
Electrical rating	200/230 or 440/480VAC, 3Ph, 60Hz // 200 or 380/415VAC, 3Ph, 50Hz
Power consumption @ steady state	4.9 kW // 5.4 kW
Cooling water flow rate	Minimum flow 2.3 GPM (9 LPM) @ 80°F (27°C) maximum temperature
Air cooled:	
Weight	384 lb (174 kg)
Dimensions - L x W x H	23.5 x 21 x 43 in (60 x 54 x 109 cm)
Electrical rating	200/230 or 440/480VAC, 3Ph, 60Hz // 200 or 380/415VAC, 3Ph, 50Hz
Power consumption @ steady state	5.5 kW // 6.0 kW

#### Flexible lines

Standard length	10 ft (3 m)
Weight per pair	9.2 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	74 dBA @ 1 meter

#### Shipping crate

	Wood box
Water cooled:	
Weight	465 lb (211 kg)
Dimensions - L x W x H	48 x 40 x 38 in (122 x 102 x 97 cm)
Air cooled:	
Weight	645 lb (293 kg)
Dimensions - L x W x H	48 x 40 x 59 in (122 x 102 x 150 cm)