

# CRYOMECH

## PT407-RM Low Vibration Cryostat Specification Sheet

### PT407-RM with CP2870

<u>Cryostat</u>	ST60407V4N
Cool down time	<4 hour to 4.2 K
Lowest temperature	≤3.2 K with no load
Cooling capacity	≥0.5 W @ 4.2 K
Short term temperature stability	+/- 5 mK
Vibration level	1-50 nanometer (expected)
Total weight	153 lb (69.4 kg)
Cryostat	140 lb (63.5 kg)
Remote Motor	13 lb (5.9 kg)
Dimensions	See cryostat drawing
<u>Compressor package</u>	CP2870, available as water or air cooled
Weight	247 lb (112 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	7.3 kW // 7.0 kW
Cooling water flow rate	Minimum flow 2.3 GPM (9 LPM) @ 80°F (27°C) maximum temperature
<u>Flexible lines</u>	
Standard length	66 ft (20.1 m)
Weight per pair	49 lb (22.2 kg)
<u>System parameters</u>	
Helium pressure	230 ± 5 PSIG (15.9 ± .34 bar) @ 60 Hz 260 ± 5 PSIG (17.9 ± .34 bar) @ 50 Hz
Ambient temperature range	45°F to 100°F (7 to 38°C)
<u>Maximum sound level</u>	
Water cooled	70 dBA @ 1 meter
Air cooled	74 dBA @ 1 meter