

CRYOMECH

Cryorefrigerator Specification Sheet

PT407-RM with CP2870

Cold head

| | |
|--|----------------------------|
| | PT407-RM |
| Cooling capacity @ 50 and 60 Hz: 2 nd stage and 1 st stage combined | 0.6W @ 4.2K with 22W @ 55K |
| Lowest temperature | 2.8K with no load |
| Cool down time | 60 minutes to 4K |
| Total weight | 40 lb (18.1 kg) |
| Expander | 27 lb (12.2 kg) |
| Remote motor | 13 lb (5.9 kg) |
| Dimensions | See cold head line drawing |

Compressor package

| | |
|----------------------------------|--|
| | CP2870, available as water or air cooled |
| Water 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 |
| Air cooled: | |
| Weight | 388 lb (176 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 | 7.3 kW // 7.0 kW |

Flexible lines

| | |
|-----------------|-----------------|
| Standard length | 10 ft (3 m) |
| Weight per pair | 9.2 lb (4.2 kg) |

System parameters

| | |
|---------------------------|--|
| 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) |

Maximum sound level

| | |
|--------------|------------------|
| Water cooled | 70 dBA @ 1 meter |
| Air cooled | 74 dBA @ 1 meter |

Shipping crate

| | |
|------------------------|--------------------------------------|
| | Wood box |
| Water cooled | |
| Weight | 470 lb (213 kg) |
| Dimensions – L x W x H | 48 x 40 x 38 in (122 x 102 x 97 cm) |
| Air cooled | |
| Weight | 650 lb (295 kg) |
| Dimensions – L x W x H | 48 x 40 x 59 in (122 x 102 x 150 cm) |