

CRYOMECH

Cryorefrigerator Specification Sheet

PT415-RM with CP1110

Cold head

Cooling capacity @ 50 and 60 Hz:
2nd stage and 1st stage combined

PT415-RM

1.35W @ 4.2K with 36W @ 45K

Lowest temperature

2.8K with no load

Cool down time

60 minutes to 4K

Total weight

57 lb (25.9 kg)

Expander

29 lb (13.2 kg)

Remote motor

19 lb (8.6 kg)

Reservoir volumes

9 lb (4.1 kg)

Dimensions

See cold head line drawing

Compressor package

CP1110, available as water cooled only

Weight

420 lb (190.5 kg)

Dimensions - L x W x H

24 x 24 x 31 in (61 x 61 x 79 cm)

Electrical rating

200/230 or 440/480VAC, 3Ph, 60Hz // 200 or 380/415VAC, 3Ph, 50Hz

Power consumption @ steady state

10.7 kW // 9.2 kW

Cooling water flow rate

Minimum flow 3 GPM (11.5 LPM) @ 80°F (27°C) maximum temperature

Flexible lines

Standard length

66 ft (20.1 m)

Weight per pair

90 lb (41 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

76 dBA @ 1 meter

Shipping crate

Weight

Wood box

650 lb (295 kg)

Dimensions - L x W x H

48 x 40 x 59 in (122 x 102 x 150 cm)