

CRYOMECH

Cryorefrigerator Specification Sheet

PT810-RM with CP289C

Cold head

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

PT810-RM

3.5W @ 10K
12.5W @ 20K with 72W @ 80K

Lowest temperature

8K with no load

Cool down time

60 minutes to 10K

Total weight

48 lb (21.8 kg)

Expander

27 lb (12.2 kg)

Remote motor

12 lb (5.4 kg)

Reservoir volumes

9 lb (4.1 kg)

Dimensions

See cold head line drawing

Compressor package

CP289C, available as water cooled only

Weight

295 lb (134 kg)

Dimensions - L x W x H

19 x 27 x 22 in (48 x 46 x 56 cm)

Electrical rating

220/230 or 460VAC, 3Ph, 60Hz // 200/220 or 380/420VAC, 3Ph, 50Hz

Power consumption @ steady state

7.8 kW // 7.8 kW

Cooling water flow rate

Minimum flow 2.3 GPM (9 LPM) @ 80°F (27°C) maximum temperature

Flexible lines

Standard length

40 ft (12.2 m)

Weight per pair

45 lb (20.4 kg)

System parameters

Helium pressure

210 ± 5 PSIG (14.5 ± .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

Shipping crate

Weight

Wood box

510 lb (232 kg)

Dimensions - L x W x H

48 x 30 x 48 in (122 x 76 x 122 cm)