

CRYOMECH

Cryocooler Specification Sheet

PT310-RM with CPA1114

Cold head

PT310-RM

Cooling capacities 60 Hz and 50 Hz:

2nd and 1st stage combined

0.9 W @ 3.0 K with 32 W @ 35 K

Lowest temperature

≤2.3 K with no load

Cool down time

60 minutes to 3.0 K

Total weight

60 lb (27.2 kg)

Expander

32 lb (14.5 kg)

Remote motor

19 lb (8.6 kg)

Reservoir volumes

9 lb (4.1 kg)

Dimensions

See cold head drawing

Compressor package

CPA1114, available as water cooled only

Weight

420 lb (190.5 kg)

Dimensions - L x W x H

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

Electrical rating

440/480 VAC, 3 Ph, 60 Hz

380/415 VAC, 3 Ph, 50 Hz

Power consumption @ steady state

13.0 kW // 12.0 kW

Cooling water flow rate

Minimum flow 3.6 GPM (13.6 LPM) @ 80 °F (27 °C) maximum temperature

Flexible lines

Standard length

66 ft (20 m)

Weight per pair

120 lb (54.4 kg)

System parameters

Helium pressure

240 ± 5 psig (16.6 ± .34 bar) @ 60 Hz

270 ± 5 psig (18.6 ± .34 bar) @ 50 Hz

Ambient temperature range

45 °F to 100 °F (7 °C to 38 °C)

Maximum sound level

Water cooled

76 dBA @ 1 meter

Shipping crate

Wood box

Weight

855 lb (387.8 kg)

Dimensions - L x W x H

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