

CRYOMECH

Cryocooler Specification Sheet

PT310 with CPA1114

Cold head

Cooling capacities 60 Hz and 50 Hz:

2nd and 1st stage combined

Lowest temperature

Cool down time

Weight

Dimensions

PT310

1.0 W @ 3.0 K with 35 W @ 35 K

≤2.3 K with no load

60 minutes to 3.0 K

58 lb (26.3 kg)

See cold head drawing

Compressor package

Weight

Dimensions - L x W x H

Electrical rating

Power consumption @ steady state

Cooling water flow rate

CPA1114, available as water cooled only

420 lb (190.5 kg)

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

440/480 VAC, 3 Ph, 60 Hz

380/415 VAC, 3 Ph, 50 Hz

13.0 kW // 12.0 kW

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

Flexible lines

Standard length

Weight per pair

66 ft (20 m)

120 lb (54.4 kg)

System parameters

Helium pressure

Ambient temperature range

240 ± 5 psig (16.6 ± .34 bar) @ 60 Hz

270 ± 5 psig (18.6 ± .34 bar) @ 50 Hz

45 °F to 100 °F (7 °C to 38 °C)

Maximum sound level

Water cooled

76 dBA @ 1 meter

Shipping crate

Weight

Dimensions - L x W x H

Wood box

855 lb (387.8 kg)

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