

CRYOMECH

Cryocooler Specification Sheet

PT450-RM with CPA3027

Cold head

PT450-RM

Cooling capacities 60 Hz and 50 Hz:

2nd and 1st stage combined

4.50 W @ 4.2 K with 60 W @ 45 K

Lowest temperature

≤2.8 K with no load

Cool down time

60 minutes to 4.2 K

Total weight

96 lb (43.6 kg)

Expander

56 lb (25.4 kg)

Remote motor

31 lb (14.1 kg)

Reservoir volumes

9 lb (4.1 kg)

Dimensions

See cold head outline drawing

Compressor package

CPA3027, available as water cooled only

Weight

695 lb (315 kg)

Dimensions

See compressor package outline drawing

Electrical rating

440/480 VAC, 3 Ph, 60 Hz

380/415 VAC, 3 Ph, 50 Hz

Power consumption @ steady state

27.0 kW // 25.0 kW

Cooling water flow rate

Minimum flow 4.5 GPM (17.0 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

250 ± 5 psig (17.2 ± .34 bar) @ 60 Hz

Ambient temperature range

45 °F to 100 °F (7 °C to 38 °C)

Maximum sound level

Water cooled

76 dBA @ 1 meter