

CRYOMECH**Cryocooler Specification Sheet****PT30-RM with CP103****Cold head**

Certified cooling capacity at 60 Hz*

Reference operating range

*reduced capacity at 50 Hz

Lowest temperature

Cool down time

Weight

Expander

Remote motor

Dimensions

Helium compressor package

Water cooled:

Weight

Dimensions

Electrical rating

Power consumption at steady state

Cooling water flow rate

Air cooled:

Weight

Dimensions

Electrical rating

Power consumption at steady state

Helium flexible lines

Standard length

Weight per pair

System parameters

Helium pressure

Ambient temperature range

Maximum sound level

Water cooled

Air cooled

PT30-RM

27 W at 80 K

11 W at 50 K 16 W at 60 K 22 W at 70 K

≤35 K with no load

15 minutes to 80 K

20 lb (9.1 kg)

11 lb (4.1 kg)

9 lb (4.1 kg)

See cold head outline drawing

CP103 available as water or air cooled

188 lb (85.5 kg)

See compressor package outline drawing

208-230 VAC, 1 Ph, 60 Hz

200-220 VAC, 1 Ph, 50 Hz

3.3 kW at 60 Hz

2.9 kW at 50 Hz

Minimum flow 1.2 GPM (4.5 LPM) at 80° F (27° C)
maximum temperature

204 lb (92.7 kg)

See compressor package drawing

208-230 VAC, 1 Ph, 60 Hz

200-220 VAC, 1 Ph, 50 Hz

3.5 kW at 60 Hz

3.1 kW at 50 Hz

10 ft (3.0 m)

6.4 lb (2.9 kg)

210 ± 5 psig (14.5 ± .34 bar) at 60 Hz

210 ± 5 psig (14.5 ± .34 bar) at 50 Hz

45° F to 100° F (7° C to 38° C)

70 dBA at 1 meter

76 dBA at 1 meter