

**CRYOMECH****Cryocooler Specification Sheet****PT90 with CPA2850****Cold head**

Certified cooling capacity at 60 Hz\*

*Reference operating range*

\*reduced capacity at 50 Hz

Lowest temperature

Cool down time

Weight

Reservoir

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

**PT90**

90 W at 80 K

48 W at 50 K    65 W at 60 K    77W at 70 K

≤33 K with no load

20 minutes to 80 K

23 lb (10.4 kg)

3 lb (1.4 kg)

See cold head outline drawing

**CPA2850 available as water or air cooled**

243 lb (110 kg)

See compressor package drawing

200-230 or 440-480VAC, 3 Ph, 60 Hz

200 or 380-415VAC, 3 Ph, 50 Hz

5.0 kW at 60 Hz

4.3 kW at 50 Hz

Minimum flow 1.8 GPM (6.8 LPM) at 80° F (27° C)  
maximum temperature

384 lb (174 kg)

See compressor package outline drawing

200-230 or 440-480VAC, 3 Ph, 60 Hz

200 or 380-415VAC, 3 Ph, 50 Hz

5.6 kW at 60 Hz

4.9 kW at 50 Hz

10 ft (3.0 m)

9.2 lb (4.2 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