

CRYOMECH

Cryocooler Specification Sheet

AL63 with CP103

Cold head

Cooling capacities (60Hz*) *reduced capacities @ 50 Hz	AL63	5W @ 20K	18W @ 30K	28W @ 40K	37W @ 50K
Lowest temperature	≤17K with no load				
Cool down time	15 minutes to 80K				
Weight	10 lb (4.5 kg)				
Dimensions	See cold head outline drawing				

Compressor package

Water cooled:	CP103, available as water or air cooled				
Weight	188 lb (85.5 kg)				
Dimensions	See compressor package outline drawing				
Electrical rating	208/230VAC, 1Ph, 60 Hz 200/220VAC, 1Ph, 50 Hz				
Power consumption @ steady state	3.2 kW // 2.8 kW				
Cooling water flow rate	Minimum flow 1.2 GPM (4.5 LPM) @ 80 °F (27 °C) maximum temperature				
Air cooled:					
Weight	204 lb (92.7 kg)				
Dimensions	See compressor package outline drawing				
Electrical rating	208/230VAC, 1 Ph, 60 Hz 200/220VAC, 1 Ph, 50 Hz				
Power consumption @ steady state	3.4 kW // 2.9 kW				

Flexible lines

Standard length	10 ft (3 m)
Weight per pair	6.4 lb (2.9 kg)

System parameters

Helium pressure	220 ± 5 psig (15.2 ± .34 bar) @ 60/50 Hz
Ambient temperature range	45 °F to 100 °F (7 °C to 38 °C)

Maximum sound level

Water cooled	70 dBA @ 1 meter
Air cooled	76 dBA @ 1 meter