

CRYOMECH

Cryorefrigerator Specification Sheet

AL63 with CP830

Cold head

Cooling capacities (60Hz*)	AL63	5W @ 20K	18W @ 30K
*reduced capacities @ 50 Hz		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 line drawing	

Compressor package

Water cooled:	CP830, available as water or air cooled
Weight	165 lb (75 kg)
Dimensions -L x W x H	18 x 18 x 22 in (46 x 46 x 56 cm)
Electrical rating	208/230VAC, 1Ph, 60Hz // 200VAC, 1Ph, 50Hz
Power consumption @ steady state	3.2 kW // 3.0 kW
Cooling water flow rate	Minimum flow 1.2 GPM (4.5 LPM) @ 80°F (27°C) maximum temperature
Air cooled:	
Weight	176 lb (80 kg)
Dimensions - L x W x H	19 x 22 x 22 in (48 x 56 x 56 cm)
Electrical rating	208/230VAC, 1Ph, 60Hz // 200VAC, 1Ph, 50Hz
Power consumption @ steady state	3.4 kW // 3.2 kW

Flexible lines

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

System parameters

Helium pressure	210 ± 5 PSIG (14.5 ± .34 bar) @ 60/50 Hz
Ambient temperature range	45°F to 100°F (7 to 38°C)

Maximum sound level

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

Shipping crate

Weight	Wood box
	328 lb (149 kg)
Dimensions - L x W x H	41 x 30 x 36 in (104 x 76 x 92 cm)