

CRYOMECH

Cryorefrigerator Specification Sheet

AL10 with CP810

Cold head

Cooling capacities (60Hz*)	AL10	10W @ 50K	11W @ 60K
*reduced capacities @ 50 Hz		13W @ 70K	14W @ 80K
Lowest temperature	20K with no load		
Cool down time	15 minutes to 80K		
Weight	6 lb (2.7 kg)		
Dimensions	See cold head line drawing		

Compressor package

Water cooled:	CP810, available as water or air cooled		
Weight	130 lb (59 kg)		
Dimensions -L x W x H	18 x 18 x 22 in (46 x 46 x 56 cm)		
Electrical rating	115 or 208/230VAC, 1Ph, 60Hz // 100 or 200VAC, 1Ph, 50Hz		
Power consumption @ steady state	1.3 kW // 1.0 kW		
Cooling water flow rate	Minimum flow 0.5 GPM (2 LPM) @ 80°F (27°C) maximum temperature		
Air cooled:			
Weight	139 lb (63 kg)		
Dimensions - L x W x H	19 x 22 x 22 in (48 x 56 x 56 cm)		
Electrical rating	115 or 208/230VAC, 1Ph, 60Hz // 100 or 200VAC, 1Ph, 50Hz		
Power consumption @ steady state	1.5 kW // 1.2 kW		

Flexible lines

Standard length	10 ft (3 m)
Weight per pair	3.2 lb (1.5 kg)

System parameters

Helium pressure	200 ± 5 PSIG (13.8 ± .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
	215 lb (98 kg)
Dimensions - L x W x H	41 x 30 x 36 in (104 x 76 x 92 cm)