

CRYOMECH

Cryorefrigerator Specification Sheet

AL300 with CP2870

Cold head

Cooling capacities (60 Hz*)	AL300	200W @ 50K	250W @ 60K
*reduced capacities @ 50 Hz		285W @ 70K	320W @ 80K
Lowest temperature	25K with no load		
Cool down time	15 minutes to 80K		
Weight	41 lb (18.6 kg)		
Dimensions	See cold head line drawing		

Compressor package

CP2870, available as water or air cooled

Water cooled:

Weight	247 lb (112 kg)
Dimensions - L x W x H	19 x 18 x 24.5 in (48 x 46 x 62 cm)
Electrical rating	200/230 or 440/480VAC, 3Ph, 60Hz // 200 or 380/415VAC, 3Ph, 50Hz
Power consumption @ steady state	7.5 kW // 7.0 kW
Cooling water flow rate	Minimum flow 2.3 GPM (9 LPM) @ 80°F (27°C) maximum temperature

Air cooled:

Weight	388 lb (176 kg)
Dimensions - L x W x H	23.5 x 21 x 43 in (60 x 54 x 109 cm)
Electrical rating	200/230 or 440/480VAC, 3Ph, 60Hz // 200 or 380/415VAC, 3Ph, 50Hz
Power consumption @ steady state	8.1 kW // 7.6 kW

Flexible lines

Standard length	10 ft (3 m)
Weight per pair	9.2 lb (4.2 kg)

System parameters

Helium pressure	210 ± 5 PSIG (14.5 ± .34 bar) @ 60 Hz 230 ± 5 PSIG (15.9 ± .34 bar) @ 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	74 dBA @ 1 meter

Shipping crate

Water cooled:	Wood box
Weight	470 lb (213 kg)
Dimensions - L x W x H	48 x 40 x 38 in (122 x 102 x 97 cm)
Air cooled:	
Weight	650 lb (295 kg)
Dimensions - L x W x H	48 x 40 x 59 in (122 x 102 x 150 cm)