

CRYOMECH**Cryocooler Specification Sheet****AL300 with CPA2870**Cold head

Certified cooling capacity at 60 Hz*

Reference operating range

*reduced capacity at 50 Hz

Lowest temperature

Cool down time

Weight

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

Flexible lines

Standard length

Weight per pair

System parameters

Helium pressure

Ambient temperature range

Maximum sound level

Water cooled

Air cooled

AL300

320 W at 80K

200 W at 50K 250 W at 60K 285 W at 70K

≤25 K with no load

<1 hour to bottom temperature

43 lb (20 kg)

See cold head outline drawing

CPA2870, available as water or air cooled

247 lb (112 kg)

See compressor package outline drawing

200/230VAC, 3Ph, 60Hz

440/480VAC, 3Ph, 60Hz

200VAC, 3Ph, 50Hz

380/415VAC, 3Ph, 50Hz

7.5 kW, 60Hz

7.0 kW, 50Hz

Minimum flow 2.3 GPM (9 LPM) at 80 °F (27 °C)
maximum temperature

388 lb (176 kg)

See compressor package outline drawing

200/230VAC, 3Ph, 60Hz

440/480VAC, 3Ph, 60Hz

200VAC, 3Ph, 50Hz

380/415VAC, 3Ph, 50Hz

8.1 kW, 60Hz

7.6 kW, 50Hz

10 ft (3 m)

9.2 lb (4.2 kg)

210 ± 5 psig (14.5 ± .34 bar) at 60 Hz

230 ± 5 psig (15.9 ± .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