

CRYOMECH

Cryocooler Specification Sheet

AL330 with CPA2870

Cold head

Cooling capacities (60 Hz*)
*reduced capacities @ 50 Hz

AL330

40 W @ 20 K 94 W @ 30 K 135 W @ 40 K 170 W @ 50 K

Lowest temperature

≤16 K with no load

Cool down time

25 minutes to 80 K

Weight

46 lb (30.9 kg)

Dimensions

See cold head outline drawing

Helium compressor package

Weight

CPA2870 available as water or air cooled

247 lb (112 kg)

Dimensions

See compressor package outline drawing

Electrical rating

200/230 VAC, 3 Ph, 60 Hz

440/480 VAC, 3 Ph, 60 Hz

200 VAC, 3 Ph, 50 Hz

380/415 VAC, 3 Ph, 50 Hz

Power consumption @ steady state

7.5 kW // 6.7 kW

Cooling water flow rate

Minimum flow 2.3 GPM (8.7 LPM) @ 80° F (27° C) maximum temperature

Helium flexible lines

Standard length

10 ft (3 m)

Weight per pair

15 lb (6.8 kg)

System parameters

Helium pressure

220 ± 5 psig (15.2 ± .34 bar) @ 60 Hz

230 ± 5 psig (15.9 ± .34 bar) @ 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