

# CRYOMECH

## Cryocooler Specification Sheet

### AL630 with CPA1114

#### Cold head

Cooling capacities (60 Hz\*)

\*reduced capacities @ 50 Hz

Lowest temperature

Cool down time

Weight

Dimensions

AL630

100 W @ 20 K 150 W @ 25 K 200W @ 30 K 265W @ 40 K

≤15 K with no load

< 1 hour to bottom temperature

96 lb (43.5 kg)

See cold head outline drawing

#### Helium compressor package

Weight

Dimensions

Electrical rating

Power consumption @ steady state

Cooling water flow rate

CPA1114, available as water cooled only

470 lb (213 kg)

See compressor package outline drawing

440/480VAC, 3 Ph, 60 Hz

380/415VAC, 3 Ph, 50 Hz

12.7 kW // 11.7 kW

Minimum flow 3 GPM (11.4 LPM) @ 80°F (27°C) maximum temperature

#### Helium flexible lines

Standard length

Weight per pair

10 ft (3 m)

15 lb (6.8 kg)

#### System parameters

Helium pressure

Ambient temperature range

260 ± 5 psig (17.9 ± .34 bar) @ 60 Hz

270 ± 5 psig (18.6 ± .34 bar) @ 50 Hz

45 °F to 100 °F (7 °C to 38 °C)

#### Maximum sound level

Water cooled

76 dBA @ 1 meter

6682 Moore Road, Syracuse, NY 13211 USA

tel.: 315-455-2555 fax: 315-455-2544

website: [www.cryomech.com](http://www.cryomech.com) email: [support@cryomech.com](mailto:support@cryomech.com)