

# CRYOMECH

## Cryocooler Specification Sheet

### AL630 with CPA1114

#### Cold head

Certified cooling capacity at 60 Hz\*

*Reference operating range*

\*reduced capacity at 50 Hz

Lowest temperature

Cool down time

Weight

Dimensions

#### AL630

100 W at 20 K

150 W at 25 K   200 W at 30 K   265 W at 40 K

≤17 K with no load

<1 hour to bottom temperature

96 lb (44 kg)

See cold head outline drawing

#### Helium compressor package

Weight

Dimensions

Electrical rating

CPA1114, available as water cooled only

420 lb (191 kg)

See compressor package outline drawing

440/480 VAC, 3 Ph, 60 Hz

380/415 VAC, 3 Ph, 50 Hz

Power consumption at steady state

12.7 kW, 60Hz

11.7 kW, 50Hz

Cooling water flow rate

Minimum flow 3.5 GPM (13.3 LPM) at 80 °F (27 °C)  
maximum temperature

#### Flexible lines

Standard length

Weight per pair

10 ft (3 m)

15 lb (6.8 kg)

#### System parameters

Helium pressure

260 ± 5 psig (17.9 ± .34 bar) at 60 Hz

270 ± 5 psig (18.6 ± .34 bar) at 50 Hz

Ambient temperature range

45 °F to 100 °F (7 °C to 38 °C)

#### Maximum sound level

Water cooled

76 dBA at 1 meter