

# CRYOMECH

## Cryocooler Specification Sheet

### PT450 with CPA3027

#### Cold head

Cooling capacities 60 Hz and 50 Hz:

2<sup>nd</sup> and 1<sup>st</sup> stage combined

Lowest temperature

Cool down time

Weight

Dimensions

PT450

5.0 W @ 4.2 K with 65 W @ 45 K

≤2.8 K with no load

60 minutes to 4.2 K

92 lb (41.7 kg)

See cold head outline drawing

#### Compressor package

Weight

Dimensions

Electrical rating

Power consumption @ steady state

Cooling water flow rate

CPA3027, available as water cooled only

695 lb (315 kg)

See compressor package outline drawing

440/480 VAC, 3 Ph, 60 Hz

380/415 VAC, 3 Ph, 50 Hz

27.0 kW // 25.0 kW

Minimum flow 4.5 GPM (17.0 LPM) @ 80 °F (27 °C) maximum temperature

#### Flexible lines

Standard length

Weight per pair

66 ft (20 m)

120 lb (54.4 kg)

#### System parameters

Helium pressure

Ambient temperature range

250 ± 5 psig (17.2 ± .34 bar) @ 60 Hz

45 °F to 100 °F (7 °C to 38 °C)

#### Maximum sound level

Water cooled

76 dBA @ 1 meter