

# CRYOMECH

## Cryorefrigerator Specification Sheet

### PT90 with CP2850

#### Cold head

Cooling capacities (60 Hz\*)

\*reduced capacities @ 50 Hz

Lowest temperature

Cool down time

Weight

Dimensions

PT90

48W @ 50K

65W @ 60K

77W @ 70K

90W @ 80K

32K with no load

15 minutes to 80K

18 lb (8.2 kg)

See cold head line drawing

#### Compressor package

Water cooled:

Weight

Dimensions - L x W x H

Electrical rating

Power consumption @ steady state

Cooling water flow rate

CP2850, available as water or air cooled

243 lb (110 kg)

19 x 18 x 24.5 in (48 x 46 x 62 cm)

200/230 or 440/480VAC, 3Ph, 60Hz // 200 or 380/415VAC, 3Ph, 50Hz

5.0 kW // 4.3 kW

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

Air cooled:

Weight

Dimensions - L x W x H

Electrical rating

Power consumption @ steady state

384 lb (174 kg)

23.5 x 21 x 43 in (60 x 54 x 109 cm)

200/230 or 440/480VAC, 3Ph, 60Hz // 200 or 380/415VAC, 3Ph, 50Hz

5.6 kW // 4.9 kW

#### Flexible lines

Standard length

Weight per pair

10 ft (3 m)

9.2 lb (4.2 kg)

#### System parameters

Helium pressure

Ambient temperature range

210 ± 5 PSIG (14.5 ± .34 bar) @ 60/50 Hz

45°F to 100°F (7 to 38°C)

#### Maximum sound level

Water cooled

Air cooled

70 dBA @ 1 meter

74 dBA @ 1 meter

#### Shipping crate

Water cooled:

Weight

Dimensions - L x W x H

Wood box

440 lb (200 kg)

48 x 40 x 38 in (122 x 102 x 97 cm)

Air cooled:

Weight

Dimensions - L x W x H

620 lb (281 kg)

48 x 40 x 59 in (122 x 102 x 150 cm)