

Section II General Information

Description

The CryoCool Series of immersion coolers is designed as a refrigeration source for sub-ambient work in liquid baths.

CryoCools employ mechanical refrigeration systems constructed with full-hermetic refrigeration compressors. The CC-65 employs a single stage refrigeration system with one compressor. The CC-100 has a dual stage refrigeration system using two compressors in cascade configuration. An insulated coaxial hose assembly carries refrigerant to the cooling probe.

Specifications

	CC-65	CC-100
Temperature Range¹	-20°C to -55°C	-25°C to -90°C
Temperature Stability	±0.5°C	±0.5°C
Evaporator Head Dimensions² (Length x Diameter)		
F-head		
<i>Inches</i>	N/A	18 x ⁵ / ₈
<i>Centimeters</i>	N/A	45.7 x 1.6
FV-head		
<i>Inches</i>	25 x ¹ / ₂	25 x ¹ / ₂
<i>Centimeters</i>	63.5 x 1.3	63.5 x 1.3
R-head		
<i>Inches</i>	7 ¹ / ₄ x 1 ¹ / ₄	7 ¹ / ₄ x 1 ¹ / ₄
<i>Centimeters</i>	18.4 x 3.2	18.4 x 3.2
Minimum Bend Radius³		
F-head		
<i>Inches</i>	N/A	1 ¹ / ₂
<i>Centimeters</i>	N/A	3.8
FV-head		
<i>Inches</i>	1	1
<i>Centimeters</i>	2.5	2.5
R-head		
<i>Inches</i>	N/A	N/A
<i>Centimeters</i>	N/A	N/A

1. Low end specifications listed for "no load" conditions.

2. See Section III, Cooling Probes for a description of the evaporator heads.

3. The minimum bend radius is the smallest radius that the cooling probe can be bent without suffering damage at room temperature. Never bend the probe when it is cold.

**Evaporator Hose
Dimensions**

(Length x Diameter)

Inches

Centimeters

Unit Dimensions

(H x W x D)

Inches

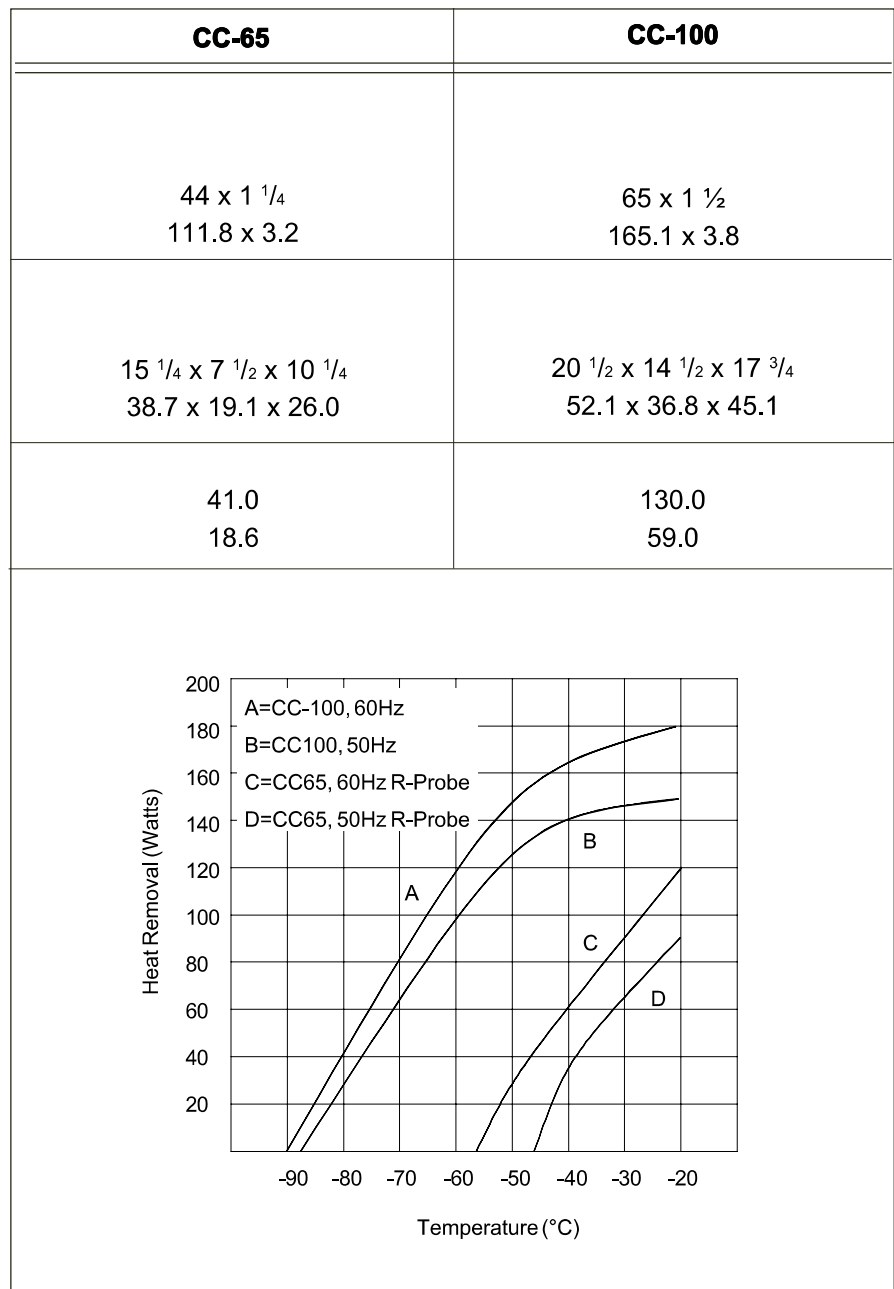
Centimeters

Weight

Pounds

Kilograms

Cooling Capacity⁴



4. Specifications obtained in a 2 liter container at +20°C ambient with cooling fluid specific heat of 0.5.