



## **Rheology Solutions**

*Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.*

*We hope the information you are seeking is contained within this file.  
If you have any questions, or require further information please contact us.  
We look forward to being of further service.*

*Regards from the Team at Rheology Solutions.*

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# Immersion Coolers

## NESLAB CC Series Immersion Coolers

Meet demanding application requirements with cooling to -90°C.

The NESLAB CC Series of immersion coolers are easy to use and designed to enhance your low temperature laboratory work. Add the Cryotrol option and you can quickly cool fluid to a set temperature.



Series Specifications			
	CC 25	CC 65	CC 100
Temperature range			
60 Hz	-25°C to +40°C	-60°C to -20°C	-90°C to -25°C
50 Hz	-25°C to +40°C	-50°C to -20°C	-87°C to -25°C
Temperature stability*	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C
Cooling capacity			
60 Hz	400 watts at 20°C	60 watts at -40°C	80 watts at -70°C
50 Hz	325 watts at 20°C	45 watts at -40°C	60 watts at -70°C
Hose dimensions			
Length x Diameter in	42 x 1	44 x 1.25	65 x 1.50
Length x Diameter cm	106.7 x 2.5	111.8 x 3.2	165.1 x 3.81
Probe dimensions			
F = flexible probe			
Length x Diameter in	n/a	n/a	18 x 0.62
Length x Diameter cm	n/a	n/a	45.7 x 1.6
Bend radius in	n/a	n/a	1.5
Bend radius cm	n/a	n/a	3.8
FV = very flexible probe			
Length x Diameter in	n/a	25 x 0.50	25 x 0.50
Length x Diameter cm	n/a	63.5 x 1.3	63.5 x 1.3
Bend radius in	n/a	1	1
Bend radius cm	n/a	2.5	2.5
R = rigid probe			
Length x Diameter in	4.38 x 2	7.25 x 1.50	7.25 x 1.50
Length x Diameter cm	11.1 x 5.1	18.4 x 3.2	18.4 x 3.2
Unit dimensions			
H x W x D in	13.56 x 8.25 x 11.50	15.25 x 7.50 x 10.25	20.50 x 14.50 x 17.75
H x W x D cm	34.4 x 20.9 x 29.2	38.7 x 19.1 x 26	52.1 x 36.9 x 45.1
Power requirements			
60 Hz	115V, 4 amps	115V, 3.5 amps	115V, 12 amps
50 Hz	220-240V, 3 amps	220-240V, 1.7 amps	220-240V, 5 amps
Unit weight			
lb	42.0	41.0	130.0
kg	19.0	18.6	59.0

\*using Cryotrol optional temperature controller

\*\*The minimum bend radius is the smallest radius that the cooling probe can be bent without incurring damage at room temperature.

Specifications subject to change without notice.

Standard Features	
Feature	Benefit
Mechanical refrigeration system	Offers continuous low temperature cooling, dry-ice substitution, precise temperature control and optimum stability
Three standard probes	Meet requirements for a variety of applications
Stainless steel coil	Easily adapts to most open baths
CFC-free refrigerant	Provides rapid cool down and is environmentally safe

# NESLAB CB Series Cryotrol

## Cryotrol Option Specifications

Feature	Specification	Benefit
Temperature range	-100°C to 20°C	Enhances low temperature work
Stainless steel sensor	6' (1.8M) lead	Corrosion resistant and easy to clean
Length x Diameter:	6 x .2 in 0.5 x 15.2 cm	
Unit dimensions (H x W x D)	3.5 x 6 x 6.5 in 8.9 x 15.2 x 16.5 cm	Maximizes bench top space
Power requirements	60 Hz 115V, 0.6 amps 50 Hz 220-240V, 0.3 amps	Provides worldwide operation
Unit weight	3.5 lb 1.6 kg	Lightweight device, portable size



## Optional Probes for the NESLAB CC Series



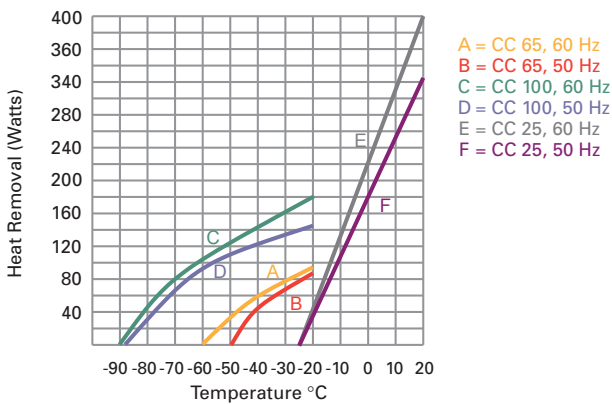
**R Probe (top)**  
1.25 x 7.25" L (3.2 x 18.4 cm)  
Short, rigid probe is excellent for immersion in containers such as Dewar flasks

**F Probe (middle)**  
.625 x 18" L (1.6 x 45.7 cm)  
Small diameter, flexible. Designed for cooling vacuum traps, vapor traps or containers with small diameters

**FV Probe (bottom)**  
.5 x 25" L (1.2 x 63.5 cm)  
Exactly like F Probe but with a smaller diameter

## Performance Curves

### Cooling Capacity



### Time to Temperature

