

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 cool fluid quickly to a set temperature.

NESLAB CC Series of Immersion Coolers

Meet demanding application requirements with cooling to -90°C



Typical laboratory applications for the CC Series - -90°C to $+40^{\circ}\text{C}$:

- Vapor trapping
- Freeze drying
- Solvent trapping
- Lyophilization
- Freezing points
- Impact testing
- Shell freezing
- Dry ice replacement



Save Time and Money

The NESLAB CC Series of immersion coolers offer a reliable and cost-effective alternative to other cooling methods. For example, if you calculate a year's worth of dry ice or liquid nitrogen and compare it with the cost of running an immersion cooler, you'll see great savings.

Choice of Cooling Probe

Designed primarily for low temperature use, the immersion coolers are durable, CFC-free refrigeration mechanical systems that continuously provide powerful low temperature cooling. You can choose from three cooling probes that are intended to meet a variety of application requirements.

Set Precise Temperature Control

If you want to enhance your low temperature work, consider a NESLAB Cryotrol unit. Ideal for use with NESLAB immersion coolers, this electronic temperature device allows you to precisely set the temperature of your application for better performance.

System Specifications

Thermo Electron Corporation has a well-established reputation in temperature control through its NESLAB and HAAKE product lines. Formerly independent companies, NESLAB and HAAKE have joined forces within Thermo to provide proven temperature control technology along with global service and support. With over 75 years of extensive industry experience, Thermo professionals worldwide continue to develop and support the solutions that help you analyze, detect, measure, and control your application with increasingly advanced precision.

NESLAB CC 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			
Length x Diameter in	4.38 x 2	n/a	n/a
Length x Diameter cm	11.1 x 5.1	n/a	n/a
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	n/a	7.25 x 1.50	7.25 x 1.50
Length x Diameter cm	n/a	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	Meets 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

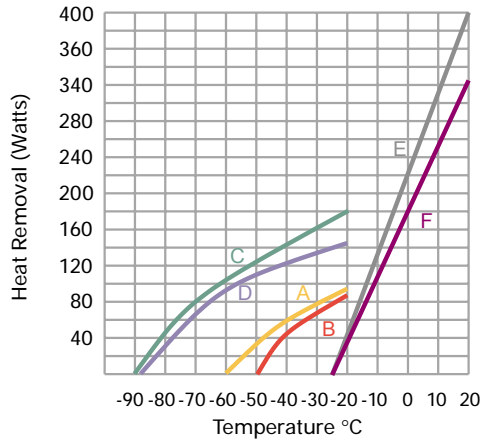
Cryotrol Option Specifications

Feature	Benefit
Temperature range -100°C to 20°C	Enhances low temperature work
Stainless steel sensor 6' (1.8M) lead Length x Diameter: 6 x .2 in 0.5 x 15.2 cm	Corrosion resistant and easy to clean
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



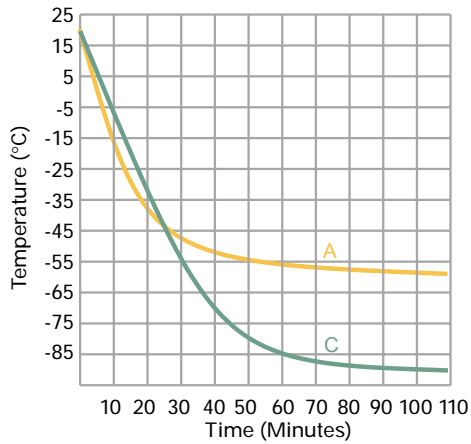
The NESLAB Cryotrol electronic temperature device allows you to control the temperature of your application by setting the control dial to a desired set point.

Cooling Capacity



A = CC 65, 60 Hz
 B = CC 65, 50 Hz
 C = CC 100, 60 Hz
 D = CC 100, 50 Hz
 E = CC 25, 60 Hz
 F = CC 25, 50 Hz

Time to Temperature



A = CC 65, 60 Hz
 C = CC 100, 60 Hz

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