



Max Capacity. Max Performance.

120 Gallons to -40°C in 25 min.

120 Gallons to -80°C in 50 minutes.

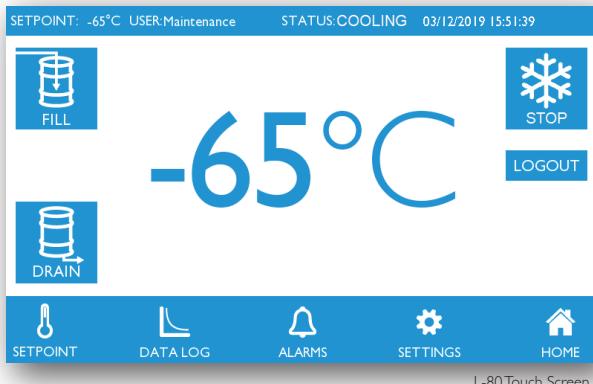
Combined with powerful Cryometrix Liquid Nitrogen Technology, this patented liquid chilling technology enables accurate, extremely fast, and ultra-cold temperatures.

The L-80 circulates liquid nitrogen within its patented chamber design, enabling it to rapidly chill ethanol down to temperature as low as -80°C. Designed for ease-of-use, with just one button press, the L-80 can automatically fill, chill, or drain the ethanol.

Cryometrix Technology doesn't require a mechanical compressors, dramatically reducing energy costs and floor space. Zero heat is exhausted to the room, removing the need for expensive HVAC systems. Mechanical compressors also require lots of upkeep and maintenance. The L-80 avoids all of this with simple and robust LN₂ technology which will give you the same high performance day in and day out regardless of the outside temperature and humidity.

With a small 33" x 33" footprint, the L-80 proves that size does matter in your C1D2 room. The L-80 is designed to be placed side by side and back to back, so as you grow, you can easily expand your chilling capacity.

The L-80 is a turn key solution providing all of the key components out of the box. All you need to provide is Liquid Nitrogen and then plug our system into the nearest 110V outlet. We provide the insulated holding tank, cryogenic pumps to fill and drain the chilled ethanol, and all of the controls need to automatically chill the liquid.



Cryometrix L-80 Max Capabilities/Benefits

- Temperature adjustable from +20°C to -80°C
- Temperature uniformity ± 1°C throughout
- Peer Reviewed for use in C1D2 environments
- Built-in data logging with up to 30 users
- Stainless steel liquid containment system
- Chill times to -40C in less than 8 minutes
- 30, 60 and 120-gallon automated fill levels
- All Sanitary Triclamp connections

To identify the best frozen storage options for your precious biospecimens, simply contact Cryometrix today.



801.226.4100



info@cryometrix.com

Customer-Focused Engineering

The Cryometrix L-80 Max Ethanol Chiller was designed for the customer's ease-of-use.

The Cryometrix L-80 Liquid Chiller brings enhanced capabilities to the ethanol chilling market. Extraction technicians get the convenience of contained pumping, extremely fast chilling, and draining, while the overall organization gains the economic and sustainability advantages of greatly reduced energy usage and enhanced performance. The benefits extend to the end users as Cryometrix Liquid Nitrogen Technology can enhance extraction efficiencies.

FEATURES	BENEFITS
Cryometrix Liquid Nitrogen Technology	<ul style="list-style-type: none"> ■ Minimizes service interruptions/downtime ■ Uses up to 95% less energy than mechanical units ■ Fastest chill times in the industry ■ Reduces need for maintenance or repairs when compared to compressor based chillers ■ No HVAC required ■ No refrigerant chemicals, oils, or CFCs ■ Extremely silent chilling operation
304 Stainless Steel Sanitary Containment System	<ul style="list-style-type: none"> ■ Easy cleaning and sterilization ■ Reliable strength and durability ■ 1.5" Sanitary Triclamp connections
Touchscreen Interface	<ul style="list-style-type: none"> ■ Simplifies management, monitors freezing processes and logs user operations ■ Downloadable temperature, alarm, and user logs
Multiple Fill Levels	<ul style="list-style-type: none"> ■ Fill levels at 30, 60, or 120 Gallons, so you can chill for large or small batches
Reliability	<ul style="list-style-type: none"> ■ Optional battery backup allows normal operation upon loss of power ■ Backup LN2 valve for operation w/o power
Exterior Dimensions	Performance (120 Gallons of Ethanol)
<ul style="list-style-type: none"> ■ Height 80 in. x depth 33 in. x width 33 in. ■ Can be placed against wall, and side-by-side 	<ul style="list-style-type: none"> ■ 25 minute chill time to -40°C ■ 40 minute chill time to -65°C ■ 55 minute chill time to -80°C ■ 4 minute fill and drain time
Liquid Nitrogen (LN2) Requirements	Performance (30 Gallons of Ethanol)
<ul style="list-style-type: none"> ■ 125-150 psi LN2 supply ■ 0.4 gal LN2/ 1 gal Ethanol (at -40°C) 	<ul style="list-style-type: none"> ■ 8 minute chill time to -40C ■ 1 minute fill and drain time
Electrical Requirements	Contact us today at info@cryometrix.com
<ul style="list-style-type: none"> ■ 120VAC 60Hz Single Phase ■ Nema 5-20 Plug 	

Trust Cryometrix for all your chilling needs

Cryometrix offers a comprehensive array of cryogenic storage freezers, ultra-low temperature freezers, blast freezers, shipping containers, liquid chillers, and transportation refrigeration units. Our business is making things cold. Cryometrix freezing, chilling, and refrigeration products use liquid nitrogen. Cryometrix Liquid Nitrogen Technology does not use compressors or refrigerants and greatly reduces energy usage and maintenance. The L-80 will reduce costs while simultaneously increasing performance. Contact Cryometrix for more information. Patent Pending.



L-80 Max Control Panel