



Small Price. Huge Performance.

-40°C in 8 minutes. -65°C in 15 minutes.

1 Minute Fill/Drain Time.

The L-80 Lite is the younger brother to the L-80 Max. You get the same great performance at a much lower price. Say what?! How is the possible? We completely redesigned the L-80 Lite to reduce components. We shrunk the tank to hold 30 gallons. The L-80 Lite is the first chiller to offer a modular design. This allows you to field-upgrade the machine as you grow and need more features.

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

The L-80 Lite 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 a button press and the turn of a lever, the L-80 can 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 Lite proves that size does matter in your C1D2 room. The L-80 Lite 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 Lite 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.



Cryometrix L-80 Lite Capabilities/Benefits

- Low price ideal for small to mid size operations
- Chill down to temperatures as low as -80°C
- Temperature uniformity $\pm 1^\circ\text{C}$ throughout
- Peer Reviewed for use in C1D2 environments
- Stainless steel liquid containment system
- Chill to -40C in 8 minutes
- All Sanitary Triclamp connections
- Modular design allows user-installed upgrades

To identify the best chilling options for your processes, contact Cryometrix today.



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Customer-Focused Engineering

The Cryometrix L-80 Lite 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
Simple Interface	<ul style="list-style-type: none"> ■ Push a button and turn a lever to either fill, chill, or drain the ethanol ■ Cryogenic Ethanol Pumps included
Modular Upgrades	<ul style="list-style-type: none"> ■ LN2 Automation Upgrade - The system will automatically control the LN2 flow to reach the setpoint. Includes 30 PSI nitrogen Line ■ Ethnaol Automation Upgrade - Adds Fill function and will automatically stop the pump when full or when empty to protect the pump.
Exterior Dimensions	Performance (30 Gallons of Ethanol)
<ul style="list-style-type: none"> ■ Height 50 in. x depth 33 in. x width 33 in. ■ Can be placed against wall, and side-by-side 	<ul style="list-style-type: none"> ■ 8 minute chill time to -40°C ■ 15 minute chill time to -65°C ■ 19 minute chill time to -80°C ■ 1 minute fill and drain time
Liquid Nitrogen (LN2) Requirements	
<ul style="list-style-type: none"> ■ 125-150 psi LN2 supply ■ 0.4 gal LN2/ 1 gal Ethanol (at -40°C) 	
Electrical Requirements	
<ul style="list-style-type: none"> ■ 220VAC 60Hz Single Phase ■ 120VAC 60Hz Single Phase (with optional Step-up Transformer) 	
Contact us today at info@cryometrix.com	
<p>Trust Cryometrix for all your chilling needs</p> <p>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.</p>	



L-80 Lite compared to L-80 MAX