

LCF LIQUID NITROGEN COLD FINGER

Protect your sensitive equipment from contaminants during High Vacuum ($< 1E^{-4}$ Torr) with an LN₂-based Cold Finger. With simple integration via ISO100 port, our LN₂ Cold Finger captures outgassed materials and water vapor to ensure safe, clean, and efficient operation of your vacuum system.

FEATURES

- Achieves temperatures down to -170° C
- Runs on LN₂, water, or chiller fluid
- Integrates with LACO Control System Cryo Valve to minimize LN₂ consumption
- Internal Type K thermocouple for temperature control
- Optional surface thermocouple for external temperature monitoring
- Simple system integration via ISO port
- Quick removal for cleaning from port or within vacuum chamber

LCF-LN2-ISO100



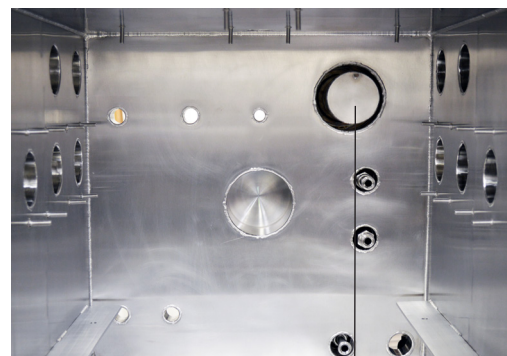
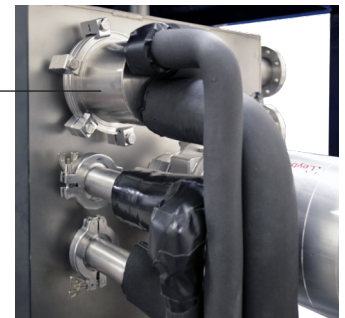
BENEFITS

- Liquid nitrogen used as cooling agent
- Traps volatile contaminants in the vacuum chamber
- Extend reliability and life of system components
- Protect sensitive equipment and vacuum process integrity
- Reduce cleaning and decontamination downtime
- Aids in achieving lower vacuum levels
- Improve pumpdown times and vacuum performance

COLD FINGER SPECIFICATIONS

COMPONENT	DESCRIPTION
PART NUMBER	LCF-LN2-ISO100
MOUNTING METHOD	ISO 100
DIMENSIONS	9.5" L x 8" W x 6" H
WEIGHT	6 lbs.
COOLING METHOD	LN ₂
MIN. OPERATING TEMP.	-170° C
VACUUM RATING	$< 1 \times 10^{-7}$ Torr
HELIUM LEAK TESTED	$< 1 \times 10^{-8}$ ATM-CC/sec
FINISH	Mechanically Polished
INLET/OUTLET	3/8" NPT or 1/2" JIC
THERMOCOUPLE	Type K

External view of Cold Finger vacuum system integration



Internal view of Cold Finger vacuum system integration.

