

MegaCold-202 Portable Cryocooler

A low-cost replacement for liquid nitrogen in small vacuum systems

Benefits

- Eliminates the cost, inconvenience and hazards of handling liquid nitrogen while still providing comparable performance.
- -110° to -135° C (163K to 138K).
- Continuous Cooling without interruption.
- Heat Removal to 120 Watts.
- Vacuum System Cold Trap Cooling.
- Mass Spectrometer Leak Detector Cold Trap Cooling.
- Cold Traps.
- Cooling of Flange Mounted Cryocoils for Turbomolecular Pumps.
- Parylene Coating Traps.
- Compliant with European Application Refrigerants EC/1005/2009, The Montreal Protocol and The US EPA SNAP.
- CE Mark to Low Voltage and EMC Directives.

Megacold-202 Cryocoolers are a compact and easy-to-use alternative to liquid nitrogen for small vacuum systems. The Megacold-202 uses a safe, non-flammable, non-toxic, HCFC-Free refrigerant in a closed-loop system that eliminates the use of heavy dewars. No more running out of liquid nitrogen in the middle of a production run.

Installation is quick and easy. The cold trap is inserted into the housing, or the baffle is installed between the diffusion pump and the high-vacuum valve. Cold probes or chevron baffles (cryosurfaces) are integral to the refrigerant line and are not detachable from it without loss of refrigerant.

Applications

- Helium mass spectrometer leak detectors
- Mechanical pumps
- Chevron baffles for four- and six-inch diffusion pumps
- Small chamber cold/vapor trapping probes

Megacold-202 Portable Cryocoolers

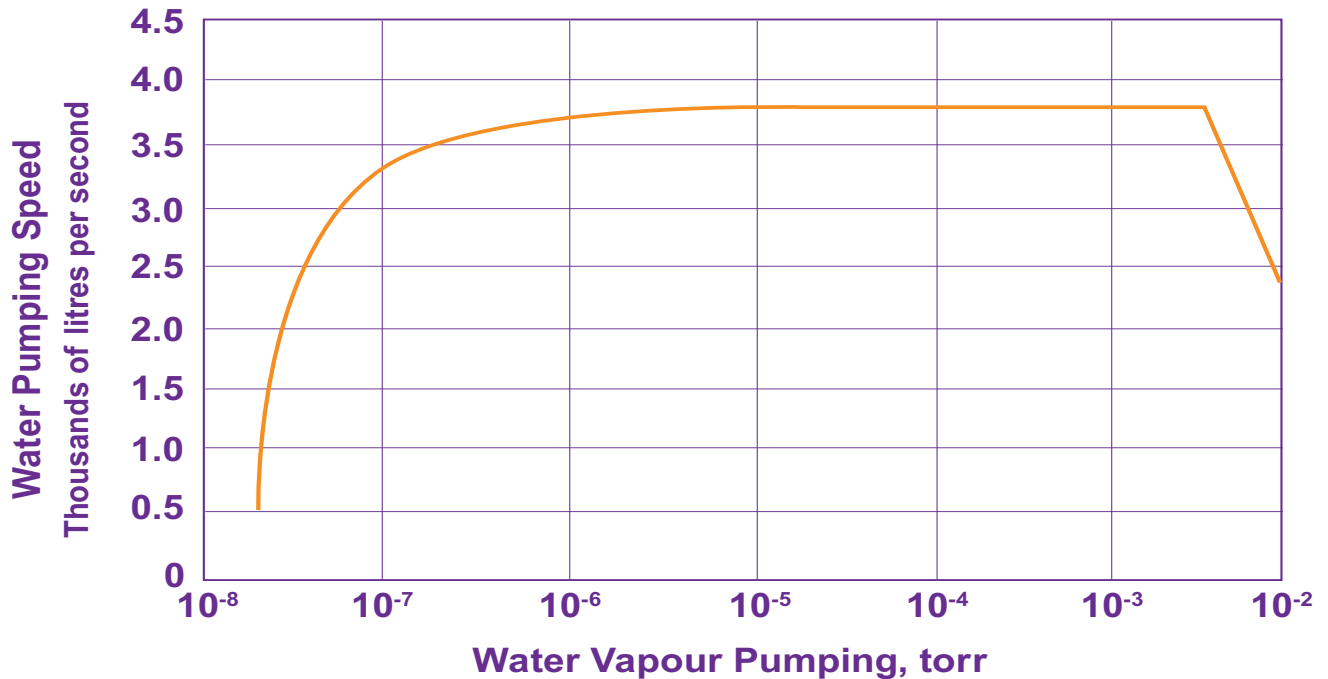
- Replace liquid nitrogen in cold traps in high vacuum systems
- Provide high-speed pumping of water vapor to the 10⁻⁸ torr range
- Are quickly and easily installed
- Enables long term cost savings by eliminating the need to replenish liquid nitrogen
- Effectively stops back streaming
- Enables uninterrupted cooling of cryosurfaces



The MegaCold-202
with Cold Probe

Performance

**Water Vapour Pumping Speed
of Portable Cryocooler with Chevron Baffles**



Specifications

Physical Data	Model MT-202
Initial Cooldown Time, hr.	1.5
Flex line length, in. (mm)	54 (1372)
Dimensions:	
Width, in. (mm)	20.5 (521)
Depth, in. (mm)	17.3 (440)
Height, in. (mm)	32.5 (826)
Weights, with lines, lb (kg)	180 (82)
Utilities	
Standard electrical, +/- 10%	202-230 / 1 / 60
	200 / 1 / 50
Current, amp	7.5
Cooling	Forced Air

For more information please contact us

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