HYVac COLD TRAPS

To protect and enhance your valuable mechanical vacuum pump. Vacuum pumps perform better and last longer when used with the appropriate inlet trap or filter. Cold traps work on condensable gases such as water, acids and solvents.

DRY-ICE FORELINE TRAP  DIT - Series
A convenient, low-cost way to trap excess condensable vapors that can enter the mechanical vacuum pump. This tabletop trap can also be used for some sample freeze-drying. Dry ice and alcohol is combined 50/50 to produce slurry in the 3-quart trap well. The surface of which can reach -75 degree C that will condense most volatile materials. The trapping surface of the center well is visible during operation through the top view ring. Defrost and clean up is made easy by lifting out the trapping well after venting. Construction is of 304 stainless steel that has been electropolished. The outer body wall is of .065 in. thick and is stainless steel with welded-in ports. The cold well has an acrylic plastic cover and could also be used as a vacuum chamber.

LIQUID NITROGEN COLD TRAP  ATN - Series
A demountable reservoir-type, liquid nitrogen cold trap designed for use with a rotary vane mechanical pump. Since the trapping of water and oil vapor is so complete and irreversible at liquid nitrogen temperatures, base vacuum in the high $10^{-6}$ Torr range can be achieved. The liquid nitrogen reservoir can be removed for cleaning from the top via a quick clamp O-ring flange. An NW16 side port can be used for diagnostics, gauges or venting. For ease of installation in a system or platform, mounting tabs are provided on the trap body. These tabs fit the optional steel mounting plate. Liquid nitrogen capacity of the reservoir is nominally one liter. Construction is of electropolished 304 stainless steel.

MECHANICAL TRAPS
These traps are basically small refrigerators and vary depending on the amount of air to be processed. This is the most expensive cold trap, but also the one needing the least attention and the easiest to use and maintain. Trapping From -50 to -90 degrees for varying condensables.
HyVac Mechanical Cold Traps - Maximum efficiency for vacuum trapping of corrosive vapors to $-100^0\text{C}$.

Because the refrigerated coil is located directly in the path of the condensing vapors in the center of the trap, the traps offer the highest heat transfer efficiency possible. The corrosion-resistant combination of titanium coil and Teflon®-coated chamber shell eliminate the expense and potential hazards associated with handling cooling fluids. HyVac Vapor Traps provide a well-insulated stainless steel chamber cooled by the direct expansion of refrigerant. This mechanical refrigeration provides the most efficient and energy-saving means of heat removal, and cools to a low temperature of $-50^0\text{C}$ or $-90^0\text{C}$.

**Corrosion-resistant systems for vacuum trapping without LN$_2$ or dry ice.**

HyVac Vapor Traps are mechanically-refrigerated cold traps that protect expensive vacuum pumps from harmful vapors which can shorten their life.

In addition, Vapor Traps eliminate the expense and potential hazards associated with the refilling and monitoring of LN$_2$ or dry ice used in expendable refrigerant traps. Considering the cost savings in labor and supplies, the Vapor Trap easily pays for itself.
Features

- Start up time is less than 10 minutes.
- Titanium Coil.
- Stainless steel chamber.
- Condensables trap direct on coils.
- Design maximizes surface area.
- Compact design conserves space.
- Available in -50°C or -100°C ranges.
- Safety-coated glass dome.
- Omni-directional ports.

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<th>DESCRIPTION</th>
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<td>MECH. REF. 2L</td>
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TOO MUCH FLOW CAN TAP YOUR TRAP !!!!

HyVac Vapor Traps work best with vacuum pumps rated below 250 liters per minute. More capacity than this may tend to overload the trap.