



Taylor-Wharton
Equipping The Hydrogen Infrastructure

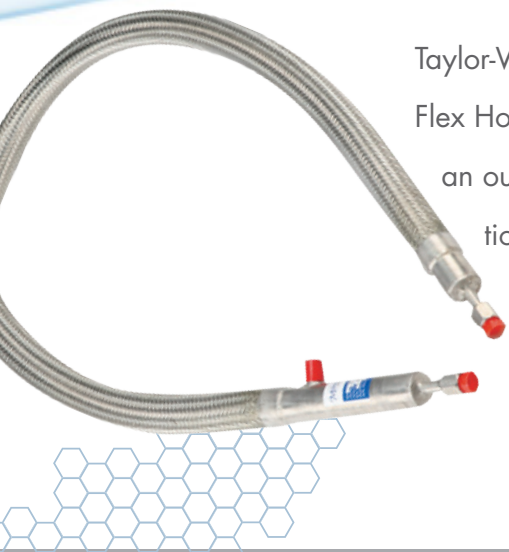
Taylor-Wharton's *NEW* Vacuum Jacketed Flex Hose



Innovative. Convenient. Reliable.

A Superior Vacuum Jacketed Flex Hose

Taylor-Wharton uses stainless steel pipe in the manufacturing of its Vacuum Jacketed Flex Hose. VJ Flex Hose contains an inner line for the transfer of cryogenic liquids with an outer vacuum jacket. The vacuum annular space consists of a multi-layered insulation with an extremely low vacuum level of 9 microns or less. VJ Flex Hose is 50 times more effective than conventional foam-insulated copper in preventing heat leak to the inner line, and VJ Flex Hose is extremely long lasting.



Advantages of Vacuum Jacketed Flex Hose

- Lower Heat Transfer
- Ease of Installation
- Safety You Can Count On
- Unique Bayonet Designs
- Factory Sealed Vacuum Section

The biggest problem in transferring cryogenic liquids is loss of product due to heat transfer. With Vacuum Jacketed Flex Hose (VJFH), it is best suited to minimize heat transfer and lower boil-off. VJFH multi-layer insulation is demonstrably superior to conventional foam insulated piping. In fact, it is up to 40 times more effective in reducing heat leaks.

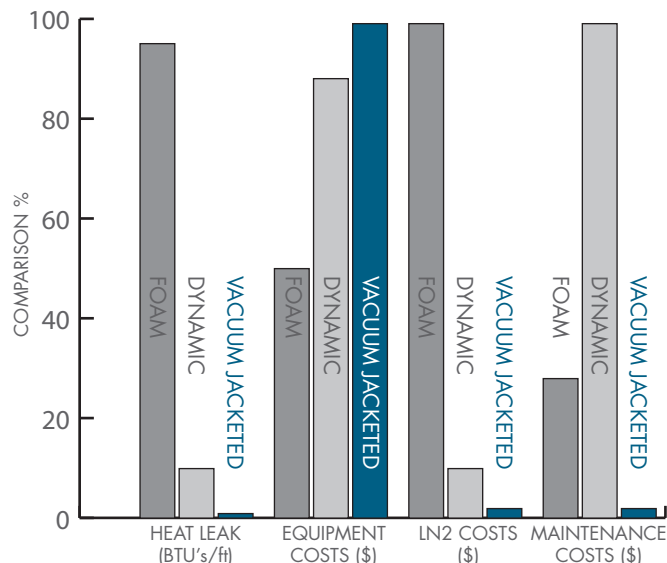
Bare Copper Pipe **200.0 BTU/hr-ft**
192.3 watts/min

Foam Jacketed Pipe **20.0 BTU/hr-ft**
19.4 watts/min

“Dynamic” Vacuum Pipe **4.0 BTU/hr-ft**
3.9 watts/min

Taylor-Wharton VJFH **0.45 BTU/hr-ft**
0.43 watts/min

Taylor-Wharton’s Vacuum Jacketed Flex Hose is superior compared to other conventional insulation. Take a look at our Cryogenic Flex Hose Comparison Chart below to see how the right piping solution can save your company time and money.



The Vacuum Jacketed Flex Hose (VJFH) system is designed for the efficient transfer of liquid nitrogen at pressures up to standard 150 psi (10.34 bar) or greater. The normal operating pressure and the flow requirements are determined by the liquid nitrogen storage tank, and the equipment requirements.

The VJFH system is made up of individual components. These components include VJFH sections, cryogenic valves, fittings, and Mechanical Keep-Full assemblies.

Taylor-Wharton’s VJ Flex Hose has a double-walled construction with an inner pipe for the transfer of liquid nitrogen, and an outer pipe to support and retain the vacuum insulation. The inner and outer pipe is constructed with type 304 stainless steel.



Taylor-Wharton
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