

CHART VACUUM INSULATED LIQUID USE WITHDRAWAL

LN2 Injectors require extremely cold, low-pressure liquid. In order to maintain the condition of the liquid being transferred from the storage tank to the injector, you need to incorporate the most efficient piping and plumbing components. It all starts at the tank!

Chart has developed the most efficient storage tank for low-pressure liquid use applications, like LN2 Injectors. Chart offers state-of-the-art insulation technology, which maintains the liquid in its lowest possible temperature.

Traditional storage tanks are designed for gas use only applications. Therefore, low-pressure liquid management is not necessary. A gas use application storage tank utilizes bronze, uninsulated globe valves for removing the high-pressure liquid from the tank and converting it quickly to gas. Low-pressure liquid applications are just the opposite in function.

The two illustrations below reflect the thermo efficiency or lack there of, in both designs of liquid use valving on the storage tank. The ice build up on the uninsulated valve design not only causes a maintenance problem, it also causes a safety concern when needing to shut off the liquid supply to the injector. Many times the valve handle is concealed in the ice formation, making it impossible to shut the valve off.

Poor valve efficiency at the tank not only costs you thousands of dollars a year in wasted liquid nitrogen; it also causes the injector to operate at a fraction of its potential.

Insist on a Vacuum Insulated Liquid Use Valve on your Liquid Nitrogen Storage Tank!



OLD TECHNOLOGY



NEW VACUUM TECHNOLOGY

