

# Liquid Nitrogen LIN

## Technical Data

Boiling Point	- 320.4° F
Triple Boiling Temp.	- 346.01° F
Liquid Density	6.745 lb/gal
Conversion	
Liquid to Gas	93.11SCF/gal

## Safety Data

Liquid or cold gas Nitrogen can cause frostbite-type burns. Protect eyes and skin from exposure to these low temperature materials. Wear protective goggles, gloves and clothing where cold liquid might be spilled.

**Caution:** *Pressure buildup due to liquid vaporization.* One volume of Liquid Nitrogen at its boiling point and atmospheric pressure will vaporize into approximately 695 volumes of gaseous Nitrogen at 70° F at one atmosphere.

## Shipping Data

DOT Name	Nitrogen, Refrigerated Liquid	
Hazard Class	2.2	
ID No.	UN1977	
DOT Label	Nonflammable Gas	
Liquid Cylinder Data		
	GP50	GP60
Diameter	20"	26"
Height	63.5"	52.9"
Empty wt.	260 lbs.	300 lbs.
Full wt.	556 lbs.	664 lbs.
Gas Flow Rate	350 CFH	400 CFH

## Low Pressure

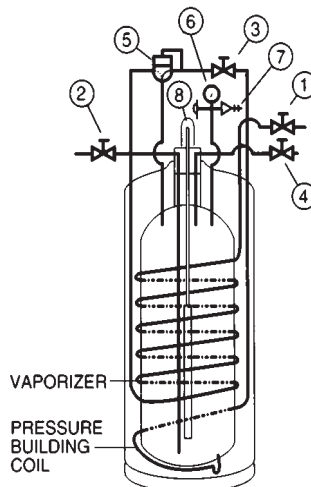
**Specifications:** Recommended for liquid use only.

Product Code	Cylinder Size	Contents liquid liters	Relief Valve Setting psig	Valve Outlet CGA	Recommended Equipment		
					Type	Model	Page
LW495	GP50	196	22	295	Cryogenic	Transfer Hose 607C	227
LW496	GP60	230	22	295	Cryogenic	Safety Accessories	227

## Standard Pressure

**Specifications:** Recommended for gas use only.

Product Code	Cylinder Size	Contents liquid liters	Relief Valve Setting psig	Valve Outlet CGA	Recommended Pressure Regulator		
					Type	Series	Page
LW494	GP50	196	230	580	Liquid cylinder	Model 250	135
LW496H	GP60	230	230	580			



### Item Plumbing Controls and Function

- 1. Gas Use Valve** - Used for gas withdrawal.
- 2. Fill/Liquid Valve** - Used for filling or liquid withdrawal operations.
- 3. Pressure Control Valve** - Used to isolate (on/off) the pressure control regulator.
- 4. Vent Valve** - Used to vent pressure.
- 5. Combination Pressure Control Regulator** - Used to automatically control operating pressure.
- 6. Pressure Gauge** - Indicates cylinder pressure.
- 7. Pressure Relief Valve** - Used to limit pressure in the liquid cylinders.
- 8. Liquid Level Gauge** - Used to approximate the liquid contents of the liquid cylinder.