



MMR Technologies, Inc.

Product *sheet*

ELAN2™ LN2 Generator With Autotransfer

Elan2™ with Autotransfer option extracts 6 L/day and stores up to 20 Liters of liquid nitrogen. Elan2™ is a clean reliable source of LN2, the best substitute for delivered LN2.

Elan2™ extracts pure nitrogen from the surrounding air and converts it into LN2. The Autostore option stores the LN2 extracted for most efficient use of the Elan2's capacity. You can locate your Elan2™ conveniently in your office or laboratory. It is aesthetically pleasing and intrinsically safe.

Reliable

The Elan2™ taps the most abundant source of nitrogen, the Earth's Atmosphere, directly. The Elan2™ applies proven cryogenic technology to convert nitrogen from the air to liquid. Our patented technology has been in use continuously for 8 years in demanding scientific applications. The secret to Elan2's reliability is a self-cleaning cooling cycle developed at MMR. Our cooling system maintains high efficiency over time and is free of ozone depleting CFCs.

Convenient

The Elan2™ completely replaces Liquid Nitrogen delivery and storage. The Elan2 eliminates the need for delivery access. LN2 is available precisely when you need it. Low demand periods allow you to build a reserve of up to 21 Liters of LN2 for use when the demand is higher.

Safe

With static evaporation rating of .095 liters/day, the external Dewar, once filled, will have liquid nitrogen for six months. Mechanical and electronic interlocks prevent spills and protect your personnel from LN2 exposure. A key, and security system guarantees that only authorized personnel can dispense the LN2 in safe authorized containers.



Liquid Nitrogen when you need it, as you need it.

Your Elan2™ unit will work at full capacity until it fills the external Dewar. Once the external Dewar is full, the Elan2™ will fill its internal 0.75 Liter Dewar and then switch to standby. As evaporation or usage reduce your LN2 reserve, Elan2™ will replenish it by producing 180 mL of LN2 every hour until full capacity is restored.





elan² LN2 Generator With Autotransfer

Electrical Service

Voltage	115 VAC / 220 VAC
Phase	Single
Frequency	50/60 Hz
Power	900 Watts

Operating Environment

Temperature	60 °F - 82 °F [16 °C - 27 °C]
Humidity	< 40% relative humidity
Dust	standard office environment
Noise	< 55 dBa at 1 meter

Liquid Nitrogen

Generation Rate	250 cc/hour (6 liters/day)
Purity	98% (< 2% O ₂)
Storage Capacity	20.5 liters
Static Evaporation*	0.095 liters/day
Normal Working Duration**	135 days (4 1/2 months)

Dimensions

Generator	13" W x 13" D x 37" Ht 33 cm W x 33 cm D x 94 cm Ht Weight 75 lbs (34 kgms)
Air Compressor Provided	17.5" W x 17.5" D x 15" Ht 45 cm W x 45 cm D x 38 cm Ht Weight 60 lbs (27 kgms)
Extrnal Dewar	2.18" (55.5 mm) neck opening 25.7" (652 mm) height overall 14.5" (368 mm) outside diameter

*Static Evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the nature of container use, atmospheric conditions, and manufacturing tolerances.

**Normal Working Duration is an arbitrary reference useful to estimate container performance under normal operating conditions. Actual working time may vary due to current atmospheric conditions, container history, manufacturing tolerances, and individual patterns of use.



MMR Technologies, Inc
1400 N. Shoreline Blvd. Suite A5
Mountain View, CA 94043-1346
Phone: (650) 962-9620
Fax: (650) 962-9647
www.mmr.com

Specifications are subject to change without notice.
Please contact MMR Technologies for revisions.