Laboratory Liquid Nitrogen Tank 30-50 L, 125 mm Neck Cryogenic Storage Dewar with Racks

Model **MSLNC-L30-125SWISS,MSLNC-L35-125SWISS,MSLNC-L47-127SWISS,MSLNC-L50-125SWISS** | Brand **Master Science**







The Master Science Laboratory Liquid Nitrogen Tank series combines low liquid nitrogen consumption with medium storage capacity for long-term preservation of frozen samples. Four sizes hold 30, 35, 47 or 50 L of LN2, with static holding times from 90 up to 130 days.

KEY HIGHLIGHTS

- Long holding time
- Low LN2 use
- Organised samples
- Light and compact

AT A GLANCE

30 / 35 / 47 / 50 L
LN2 CAPACITY

600 / 750 / 1100 / 900
VIAL CAPACITY (1.2, 1.8, 2 ML INTERNALLY THREADED)

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

The durable aluminium body is light and space-saving. Every model is supplied with freezing racks and PC freezing boxes, and the marked racks and boxes make it quick to find the right vial.

To prepare frozen samples, our Cryogenic Grinder, Liquid Nitrogen Freezer Mill works well with the Laboratory Liquid Nitrogen Tank.

Key Benefits

Long holding time
Up to 130 days static holding for the 47 L model.

Low LN2 use
Static evaporation from only 0.35 L per day.

Organised samples
Marked racks and boxes make vials easy to locate.

Light and compact
Aluminium build saves weight and floor space.

Technical Specifications

GENERAL	
General	Specifications of the Laboratory Liquid Nitrogen Tank (30 / 35 / 47 / 50 L):
Brand	Master Science
Model Number	MSLNC-L30-125SWISS,MSLNC-L35-125SWISS,MSLNC-L47-127SWISS,MSLNC-L50-125SWISS
SKU	MSLNC-L30-125SWISS,MSLNC-L35-125SWISS,MSLNC-L47-127SWISS,MSLNC-L50-125SWISS
LN2 Capacity	**30 / 35 / 47 / 50 L**
Neck Opening	125 / 125 / 127 / 125 mm
Outer Diameter	462 / 462 / 508 / 462 mm
Static Evaporation Rate	0.35 / 0.36 / 0.36 / 0.45 L/day
Static Holding Time	90 / 97 / 130 / 110 days
Racks	6 per tank (round racks on 47 L model)
Boxes per Rack	4 / 5 / 5 / 6
Vial Capacity (1.2, 1.8, 2 mL internally threaded)	**600 / 750 / 1100 / 900**
Construction	Aluminium

DIMENSIONS & WEIGHT	
Weight Empty	13 / 14.5 / 18.2 / 17.3 kg
Weight Full	38.9 / 43.2 / 60.9 / 62.4 kg
Overall Height	725 / 765 / 740 / 830 mm
Rack Dimensions	82 x 84 mm (105 x 100 mm for 47 L)
Vial Box Dimensions	76 x 76 mm (98 mm for 47 L)

CRYOGENIC STORAGE ISSUES IT ADDRESSES	
Frequent LN2 refilling	Low evaporation and holding times of 90-130 days.
Lost time searching for vials	Marked racks and boxes speed up retrieval.
Unauthorised access	Optional lockable lid.
Running low unnoticed	Optional level monitor with audible and visual alarm.

Applications

The Laboratory Liquid Nitrogen Tank is used for

Long-term cryopreservation of cells and tissues Biobanks and sample repositories Research and university laboratories Hospital and clinical laboratories Storage of 1.2-2 mL cryovials

Construction

- Durable aluminium structure
- Large capacity with low liquid nitrogen consumption
- Designed for long-term storage

Sample Storage

- Freezing racks and PC freezing boxes included
- Marked racks and boxes for quick identification
- Easy access for taking and placing samples

Options

- Lockable lid to prevent unauthorised opening
- Liquid level monitoring with sound and light low-level alarm
- PU protective jacket
- Smart cap
- Roller base / transport trolley

Standard Accessories Included

- 6 freezing racks
- PC freezing boxes

Optional Accessories

- Lockable lid
- PU bag (protective jacket)
- Smart cap
- Roller base
- Liquid level monitoring system
- Transport trolley