



# Liquid Nitrogen Biological Container

## Introduction

Liquid nitrogen (LN<sub>2</sub>) is known to provide a stable ultra-low temperature environment ideal for long-term sample storage. It is also commonly used in cryogenics for chilling and freezing applications.

Esco Lifesciences proudly introduces the Liquid Nitrogen Biological Container (LBC) Series. These containers are suitable for long-term storage and transportation of samples in liquid nitrogen for various applications.

## Features:

- Lightweight and durable aluminum construction
- Standard lid lock to guarantee safety of samples
- Has multilayer insulation and vacuum to reduce thermal radiation
- Available in various volume capacities

Models	LBC-35 5410001	LBC-47 5410002	LBC-50 5410003	LBC-65 5410004	LBC-95 5410005	LBC-120 5410006	LBC-145 5410007	LBC-175 5410008
<b>Maximum Storage Capacity</b>								
Number of racks	6	6	6	6	6	6	6	6
Number of 2 ml vials	750	750	900	2400	3000	3600	4800	6000
Boxes per rack	5	5	6	4	5	6	8	10
<b>Performance</b>								
N <sub>2</sub> Capacity per liter	35	47	50	65	95	120	145	175
Static evaporation rate liter per day	0.36	0.45	0.43	0.78	0.81	0.85	0.85	0.87
Static liquid nitrogen storage time per day	97	105	115	83	117	142	171	202
<b>Overall Dimensions</b>								
Internal diameter / caliber (mm)	125	127	125	216	216	216	216	216
External diameter (mm)	458.6	513.7	513.7	687.9	687.9	687.9	687.9	687.9
Overall height (mm)	762	730	792	787	843	894	1029	1089
Net weight (kg)	17.8	18.9	20.9	42.2	45	48.5	54.7	57.2

OPTIONS AND ACCESSORIES	
1730010	SQUARE CANISTERS, 5*5 5 LAYERS FOR LBC-35 & LBC-47, 25 COMPARTMENT CRYOBOX
1730011	SQUARE CANISTERS, 5*5 6 LAYERS FOR LBC-50, 25 COMPARTMENT CRYOBOX
1730012	SQUARE CANISTERS, 10*10 4 LAYERS FOR LBC-65, 100 COMPARTMENT CRYOBOX
1730013	SQUARE CANISTERS, 10*10 5 LAYERS FOR LBC-95, 100 COMPARTMENT CRYOBOX
1730014	SQUARE CANISTERS, 10*10 6 LAYERS FOR LBC-120, 100 COMPARTMENT CRYOBOX
1730015	SQUARE CANISTERS, 10*10 8 LAYERS FOR LBC-145, 100 COMPARTMENT CRYOBOX
1730016	SQUARE CANISTERS, 10*10 10 LAYERS FOR LBC-175, 100 COMPARTMENT CRYOBOX
1730017	ROLLER BASE, 5 WHEELS FOR LBC-47 & LBC-50
1730018	ROLLER BASE, 5 WHEELS FOR LBC-65, LBC-95, LBC-120, LBC-145 & LBC-175
1730019	ROLLER BASE, 5 WHEELS FOR LBC-35
1730024	LEVEL GAUGE RULER, 1M
1730026	LOCK COVER, 125 MM FOR LBC-35, LBC-47 AND LBC-50
1730027	LOCK COVER, 216 MM FOR LBC-65, LBC-95, LBC-120, LBC-145 & LBC-175
1730028	CAP, 125 MM FOR LBC-35, LBC-47 AND LBC-50
1730029	CAP, 215 MM FOR LBC-65, LBC-95, LBC-120, LBC-145 & LBC-175
1730030	CRYOBOX, 5*5
1730031	CRYOBOX, 10*10
1730032	CRYOBOX, 9*9
1260039	CRYO SAFETY GLOVES