



Liquid Nitrogen Storage Series

Combined Catalog





Liquid Nitrogen Biological Container Square Canister Series

Introduction

Liquid nitrogen (LN₂) is known to provide a stable ultra-low temperature environment (-196°C) ideal for long-term sample storage.

Esco Lifesciences' liquid nitrogen containers are designed to optimize efficiency by combining low static LN₂ evaporation rate with reliable medium-scale cryopreservation, making them ideal for safely storing cell samples over extended periods. Designed with a larger opening and easy-to-use storage racks, they are ideal for applications requiring long-term cryogenic storage and frequent sample access.

This series of LN₂ tanks is compact and lightweight, making it an excellent choice for research cell labs, small-scale biobanks, and the initial stages of biobank establishment.

Features:

- Low static LN₂ evaporation rate
- 5-year vacuum warranty
- Durable and lightweight aluminium alloy construction
- Safety lock lid for secure sample protection
- Wide neck for easy access and retrieval of samples
- Multi-layer insulation and vacuum design to minimize thermal transfer
- Available in various volume capacities to suit user's requirements

Technical Specifications

Models	LBC-35 (2350001)	LBC-47 (2350002)	LBC-50 (2350003)	LBC-65 (2350004)	LBC-95 (2350005)	LBC-120 (2350006)	LBC-145 (2350007)	LBC-175 (2350008)
MAXIMUM STORAGE CAPACITY								
Number of Racks	6	6	6	6	6	6	6	6
Number of 2mL Vials	750	750	900	2400	3000	3600	4800	6000
Boxes per Rack	5	5	6	4	5	6	8	10
PERFORMANCE								
Liquid Nitrogen Capacity (L)	35.5	47	50	65	95	120	145	175
Static Evaporation Rate (L/day)	0.36	0.36	0.43	0.82	0.81	0.85	0.85	0.87
Static Holding Time (days)	99	130	115	79	117	142	171	202
DIMENSIONS								
Neck Diameter (mm)	125	127	125	216	216	216	216	216
Overall Height (mm)	755	730	800	760	825	995	1065	1115
External Diameter (mm)	451	498	498	678	678	678	678	678
Net Weight (kg) *excluding canisters	15.1	18.3	21.5	38.7	42.9	49.9	53.7	56.8

★
NEW
PRODUCT



Liquid Nitrogen Biological Container Round Canister Series

Introduction

The Esco Lifesciences' round canister series of liquid nitrogen biological containers are specifically designed for long-term static storage of samples. Its narrow-neck design effectively reduces liquid nitrogen evaporation, minimizing the frequency of liquid nitrogen refills, making them ideal for long term storage of precious samples.

Features:

- Low static LN₂ evaporation rate
- 5-year vacuum warranty
- Durable and lightweight aluminium alloy construction
- Safety lock lid for secure sample protection
- Narrow-neck to minimize LN₂ evaporation
- Multi-layer insulation and vacuum design to minimize thermal transfer
- Available in various volume capacities to suit user's requirements

Technical Specifications

Model		LC-3	LC-6	LC-10	LC-10L	LC-13	LC-20	LC-30	LC-30L	LC-35	LC-35L	LC-47	LC-50	LC-50L
		(2350009)	(2350010)	(2350011)	(2350012)	(2350067)	(2350013)	(2350014)	(2350015)	(2350016)	(2350017)	(2350018)	(2350019)	(2350020)
SPECIFICATIONS														
Liquid Nitrogen Capacity (L)		3.15	6	10	10	13	20	31.5	31.5	35.5	35.5	47	50	50
Static Evaporation Rate (L/day)		0.12	0.12	0.12	0.18	0.12	0.12	0.12	0.19	0.12	0.22	0.36	0.24	0.34
Static Holding Time (days)		26	52	86	56	108	168	263	169	296	161	130	209	147
Straw Tube Capacity (1 Level)	0.5mL	792	792	792	2244	792	792	792	2244	792	2244	4310	792	2244
	0.25mL	1788	1788	1788	5022	1788	1788	1788	5022	1788	5022	10320	1788	5022
Straw Tube Capacity (2 Levels)	0.5mL	-	-	-	-	1284	1284	1284	3624	1284	3624	8200	1284	3624
	0.25mL	-	-	-	-	2832	2832	2832	8460	2832	8460	17810	2832	8460
Number of Canisters		6	6	6	6	6	6	6	6	6	6	10	6	6
Canister Dimensions (mm)		38 x 120	38 x 120	38 x 120	63 x 120	38 x 276	38 x 276	38 x 276	63 x 276	38 x 276	63 x 276	72 x 276	38 x 276	63 x 276
DIMENSIONS														
Neck Diameter (mm)		50	50	50	80	50	50	50	80	50	80	127	50	80
Overall Height (mm)		445	490	565	570	640	690	710	710	745	745	730	765	780
External Diameter (mm)		224	300	300	300	300	396	451	451	451	451	498	498	498
Net Weight (kg) *excluding canisters		4.0	5.7	6.2	7.1	7.1	11.8	13.5	13.8	14.1	14.6	19.9	20.0	20.6

ACCESSORIES

Item Code	Description
2350021	Square Racks Canisters, 5 Layers, for LBC-35, 5 x 5 Compartment Cryoboxes included
2350022	Square Racks Canisters, 5 Layers, for LBC-47, 5 x 5 Compartment Cryoboxes included
2350023	Square Racks Canisters, 6 Layers, for LBC-50, 5 x 5 Compartment Cryoboxes included
2350024	Square Racks Canisters, 4 Layers, for LBC-65, 9 x 9 or 10 x 10 Compartment Cryoboxes included
2350025	Square Racks Canisters, 5 Layers, for LBC-95, 9 x 9 or 10 x 10 Compartment Cryoboxes included
2350026	Square Racks Canisters, 6 Layers, for LBC-120, 9 x 9 or 10 x 10 Compartment Cryoboxes included
2350027	Square Racks Canisters, 8 Layers, for LBC-145, 9 x 9 or 10 x 10 Compartment Cryoboxes included
2350028	Square Racks Canisters, 10 Layers, for LBC-175, 9 x 9 or 10 x 10 Compartment Cryoboxes included
2350029	Round Canisters, 38 x 120mm for all LC Series
2350030	Round Canisters, 38 x 276mm for LC-13, LC-20, LC-30, LC-30L, LC-35, LC-35L, LC-47, LC-50, and LC-50L
2350031	Round Canisters, 63 x 120mm for LC-10L, LC-30L, LC-35L, LC-47, and LC-50L
2350032	Round Canisters, 63 x 276mm for LC-30L, LC-35L, LC-47, and LC-50L
2350033	Round Canisters, 72 x 276mm for LC-47
2350036	Roller Base, 5 Wheels for LBC-35, LC-30, LC-30L, LC-35, and LC-35L
2350034	Roller Base, 5 Wheels for LBC-47, LBC-50, LC-47, LC-50, and LC-50L
2350035	Roller Base, 5 Wheels for LBC-65, LBC-95, LBC-120, LBC-145, and LBC-175
2350040	Lock Cover, 50mm for LC-3, LC-6, LC-10, LC-13, LC-20, LC-30, LC-35, and LC-50
2350041	Lock Cover, 80mm for LC-10L, LC-30L, LC-35L, and LC-50L
2350038	Lock Cover, 125mm for LBC-35, LBC-47, LBC-50, and LC-47
2350039	Lock Cover, 216mm for LBC-65, LBC-95, LBC-120, LBC-145, and LBC-175
2350043	Neck Plug, 50mm for LC-3, LC-6, LC-10, LC-13, LC-20, LC-30, LC-35, and LC-50
2350044	Neck Plug, 80mm for LC-10L, LC-30L, LC-35L, and LC-50L
2350042	Neck Plug, 125mm for LBC-35, LBC-47, LBC-50, and LC-47
2350045	2mL Cryobox, 5 x 5 for LBC Series

Item Code	Description
2350046	2mL Cryobox, 10 x 10 for LBC Series
2350047	2mL Cryobox, 9 x 9 for LBC Series
2350048	5mL Cryobox, 9 x 9 for LBC series
2350050	Cover Sleeve for LBC-35, LC-35, and LC-35L
2350051	Cover Sleeve for LBC-47 and LC-47
2350052	Cover Sleeve for LBC-50, LC-50, and LC-50L
2350053	Cover Sleeve for LBC-65
2350054	Cover Sleeve for LBC-95
2350055	Cover Sleeve for LBC-120
2350056	Cover Sleeve for LBC-145

Item Code	Description
2350057	Cover Sleeve for LBC-175
2350058	Cover Sleeve for LC-3
2350059	Cover Sleeve for LC-6
2350060	Cover Sleeve for LC-10 and LC-10L
2350061	Cover Sleeve for LC-20
2350062	Cover Sleeve for LC-30 and LC-30L
2350068	Cover Sleeve for LC-13
2350037	Level Gauge Ruler, 1m
2350049	Freezing Tongs, 1m
1260039	Cryo Safety Gloves

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