LN2 Containers

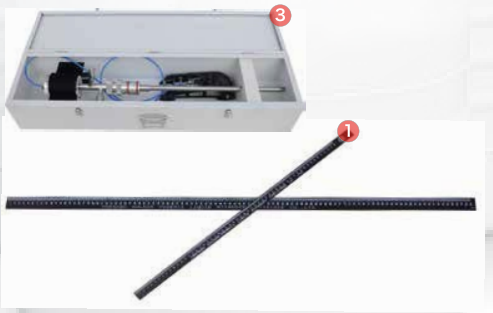
Venchal Scientific

Features :

- High strength and lightweight aluminum construction
- Ultra-low evaporation losses
- Numbered index location points for canisters
- Mobile roller bases optional
- Lockable lids
- Straw storage
- LN2 pump optional

Important Accessories

1. 600mm Liquid Level Ruler
2. 1000mm Liquid Level Ruler
3. LN2 Dispenser



Technical Parameters

Model	230	350	650	1050	1080
Maximum storage capacity					
Number of Canisters (EA)	3	6	6	6	6
Number of Straws (monolayer) (0.5ML*EA)	90	792	792	792	2244
Number of Straws (monolayer) (0.25ML*EA)	204	1788	1788	1788	5022
Performance					
Liquid Nitrogen Capacity (L)	2	3.15	6	10	10
Static Evaporation (L/day)*	0.06	0.10	0.10	0.10	0.18
Working Duration (whole day)**	21	20	38	63	35
Unit Dimensions					
Neck Opening in. (MM)	30	50	50	50	80
Overall Height in. (MM)	378	429	476	536	540
External Diameter (MM)	224	224	300	300	300
Canister External Diameter (MM)	19	38	38	38	63
Canister Height in. (MM)	120	120	120	120	120
Weight Empty lb. (KG)	2.9	3.5	5	6.3	6.5
Weight Liquid Full* lb. (KG)	4.5	6	9.9	14.5	14.7

Model	10125	1350	1550	15125	2050	3050
Maximum storage capacity						
Number of Canisters (EA)	1	6	6	1	6	6
Number of Straws (monolayer) (0.5ML*EA)	—	—	792	—	792	792
Number of Straws (monolayer) (0.25ML*EA)	—	—	1788	—	1788	1788
Number of Straws (bilayer) (0.5ML*EA)	1508	1284	—	1508	1284	1284
Number of Straws (bilayer) (0.25ML*EA)	3324	2832	—	3324	2832	2832
Performance						
Liquid Nitrogen Capacity (L)	10	13	15	15	20	30
Static Evaporation (L/day)*	0.30	0.10	0.10	0.30	0.10	0.11
Working Duration (whole day)**	21	82	94	31	126	172
Unit Dimensions						
Neck Opening in. (MM)	125	50	50	125	50	50
Overall Height in. (MM)	546	610	575	585	656	655
External Diameter (MM)	300	310	394	394	394	461
Canister External Diameter (MM)	97	38	38	97	38	38
Canister Height in. (MM)	276	276	120	276	120/276	120/276
Weight Empty lb. (KG)	6.9	6.6	8.2	10.2	11.7	12
Weight Liquid Full* lb. (KG)	15.1	17.3	20.5	22.5	28.1	36.6

Model	3080	30125	3550	3580	35125	47127
Maximum storage capacity						
Number of Canisters (EA)	6	6	6	6	6	6
Number of Straws (monolayer) (0.5ML*EA)	2244	5124	792	2244	5124	5124
Number of Straws (monolayer) (0.25ML*EA)	5022	11952	1788	5022	11952	11952
Number of Straws (bilayer) (0.5ML*EA)	3624	9048	1284	3624	9048	9048
Number of Straws (bilayer) (0.25ML*EA)	8460	19944	2832	8460	19944	19944
Performance						
Liquid Nitrogen Capacity (L)	30	30	35	35	35	47
Static Evaporation (L/day)*	0.18	0.28	0.11	0.19	0.29	0.33
Working Duration (whole day)**	105	67	200	116	76	90
Unit Dimensions						
Neck Opening in. (MM)	80	125	50	80	125	127
Overall Height in. (MM)	655	659	695	698	700	754
External Diameter (MM)	461	461	461	461	461	461
Canister External Diameter (MM)	63	97	38	63	97	97
Canister Height in. (MM)	120/276	120/276	120/276	120/276	120/276	120/276
Weight Empty lb. (KG)	12.4	14.3	14	14.2	14.5	15.4
Weight Liquid Full* lb. (KG)	37	38.9	42.7	42.9	43.2	54

Model	20250	30250	30280	302125	35250
Maximum storage capacity					
Number of Canisters (EA)	6	6	6	6	6
Number of Straws (monolayer) (0.5ML*EA)	792	792	2244	5124	792
Number of Straws (monolayer) (0.25ML*EA)	1788	1788	5022	11952	1788
Number of Straws (bilayer) (0.5ML*EA)	1284	1284	3624	9048	1284
Number of Straws (bilayer) (0.25ML*EA)	2832	2832	8460	19944	2832
Performance					
Liquid Nitrogen Capacity (L)	20	30	30	30	35
Static Evaporation (L/day)*	0.18	0.17	0.23	0.34	0.17
Working Duration (whole day)**	70	111	82	56	129
Unit Dimensions					
Neck Opening in. (MM)	50	50	80	125	50
Overall Height in. (MM)	656	656	656	659	695
External Diameter (MM)	394	461	461	461	461
Canister External Diameter (MM)	38	38	63	97	38
Canister Height in. (MM)	120/276	120/276	120/276	120/276	120/276
Weight Empty lb. (KG)	11.5	12.5	13	14.6	14.1
Weight Liquid Full* lb. (KG)	27.9	37.1	37.6	38.9	42.8

Model	35280	352125	50250	50280	502125
Maximum storage capacity					
Number of Canisters (EA)	6	6	6	6	6
Number of Straws (monolayer) (0.5ML*EA)	2244	5124	792	2244	5124
Number of Straws (monolayer) (0.25ML*EA)	5022	11952	1788	5022	11952
Number of Straws (bilayer) (0.5ML*EA)	3624	9048	1284	3624	9048
Number of Straws (bilayer) (0.25ML*EA)	8460	19944	2832	8460	19944
Performance					
Liquid Nitrogen Capacity (L)	35	35	50	50	50
Static Evaporation (L/day)*	0.23	0.35	0.20	0.26	0.37
Working Duration (whole day)**	96	63	157	121	85
Unit Dimensions					
Neck Opening in. (MM)	80	125	50	80	125
Overall Height in. (MM)	698	700	770	766	753
External Diameter (MM)	461	461	461	461	461
Canister External Diameter (MM)	63	97	38	63	97
Canister Height in. (MM)	120/276	120/276	120/276	120/276	120/276
Weight Empty lb. (KG)	14.3	14.8	19.3	20.1	21
Weight Liquid Full* lb. (KG)	43	43.5	60.3	61.1	62

★ **Static evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the condition of container usage, atmospheric conditions, and manufacturing tolerances.**

★★ **Normal Working Duration is just an arbitrary reference, applying to estimate container performance under normal operating conditions. Actual working time may vary due to current atmospheric conditions, container usage history, manufacturing tolerances and individual patterns of usage. Divide static holding days by 1.6, and you get empirical value.**

FEATURES :

- Equip with racks and box
- Dual-lock construction
- Durable aluminum construction
- Larger storage capacity, less liquid nitrogen Consumption
- Compatible with all major storage box brands
- Liquid level monitoring system optional
- Mobile roller bases optional

Real-time Liquid Level Monitoring System

Liquid level monitoring system continuously monitors the temperature inside the container. The liquid level monitoring system matchs all Cryomaster models,optimal choice for long time monitoring of samples storage. It realizes reminding users to add liquid nitrogen timely too. There are Cryomonitor 1000/2000 models.

This system with real-time temperature display and noise reduction function,providing 3 types of alarms:

1. High/low temperature alarm
2. Sensor fault audible and visual alarm
3. Low set value audible and visual alarm

Cryomonitor 1000 liquid level monitor (left)

Automatically Filling System

It is very useful to fill liquid nitrogen automatically for long time sample storage in vapour phase. At the same time,it prevents users from adding liquid nitrogen frequently in liquid phase. Cryomonitor 2000 constantly monitors temperature inside the container, controlling liquid inputting solenoid value open and close, supplying liquid nitrogen timely which applies to the long-term samples storage. It may be not is not very economical for liquid nitrogen usage, however it provides users with precise control of the liquid nitrogen usage and more the 8 weeks liquid nitrogen supplement capability.

Cryomonitor 2000 liquid level monitor (right)

Ultra Low-power Consumption Liquid Level Monitoring System

Data collected by Smart Sensor, and then transferred to cloud storage by Black Box. Users only have to log on Cold Cloud to query and download data. This system is the latest monitoring product easy installation and accur ate data.

Biological samples liquid nitrogen storage	Intelligent data collection module Smart Sensor (wireless sensor)	Intelligent data transfer module Black Box -- (1+n Mode)	Data storage platform Cold Cloud -- (More safety)

※ Monitoring Temperature: +150℃- -200℃
※ Usage: Sensor put into cabinet, device attached outside cabinet by magnetism No external power supply

LN2 Containers

Technical Parameters

Model	50600	50750	50900
Maximum storage capacity			
Number of Racks (EA)	6	6	6
1.2&2ml Vials (25/box)	600	750	900
Number of Boxes per Rack (EA)	4	5	6
Performance			
Liquid Nitrogen Capacity (L)	31.5	35	47
Static Evaporation (L/day)*	0.28	0.29	0.33
Capacity (L)	31.5	35	47
Working Duration (whole day)**	71	76	90
Unit Dimensions			
Neck Diameter (mm)	125	125	127
Overall Height (mm)	659	700	753
External Diameter (mm)	461	461	461
Weight Empty (kg)	14.3	14.5	15.4
Weight Liquid Full* (kg)	38.9	43.2	53.9

Model	502400	503000	503600	504800	506000
Maximum storage capacity					
Square Canisters (EA)	6	6	6	6	6
1.2&2ML Vials (100/box)	2400	3000	3600	4800	6000
Number of Boxes per Canister (EA)	4	5	6	8	10
5ML Vials (36/box)	648	864	1080	1296	1728
Number of Boxes per Canister (5ML*EA)	3	4	5	6	8
Performance					
Liquid Nitrogen Capacity (L)	65	95	115	140	175
Static Evaporation (L/day)*	0.79	0.81	0.83	0.87	0.87
Capacity (L)	55	85	105	130	165
Working Duration (whole day)**	44	66	80	94	126
Unit Dimensions					
Neck Opening in. (MM)	216	216	216	216	216
Overall Height in. (MM)	710	726	796	910	1026
External Diameter in. (MM)	681	681	681	681	681
Weight Empty lb. (KG)	27.5	34.5	38.5	42.5	55
Weight Liquid Full* lb. (KG)	80.8	112.4	132.8	157.3	198.5

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