



MVE Biological Solutions for Animal Health

Storage & Transport Systems for MVE Cryopreservation



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MVE Series

Stable cryogenic storage

The MVE Series freezers provide stable cryogenic storage for up to 39,000 1.2 / 2.0 ml vials. These freezers provide maximum storage density and provide long hold times. MVE Series are primarily designed for liquid storage.

Key Features

- Liquid sample storage
- Wide neck opening
- Low liftover height
- Large LN₂ capacity



MVE Series

	MVE 205	MVE 510	MVE 616	MVE 1426	MVE 1839
Maximum Storage Capacity					
○ Total Bulk Straw Capacity (1/4 cc in 65mm Goblets)	98,400	172,200	258,300	410,000	615,000
○ Total Number of 65mm Goblets : Goblets/Level	120:5	210:5	315:5	500:5	750:5
○ Total Straw Capacity (1/4cc - 10 per Cane)	6,820	12,090	18,910	31,000	51,150
○ Total Number of SUC-1 Canisters	22	39	61	100	165
Performance					
○ LN ₂ Capacity L	95	166	240	388	673
Unit Dimensions					
○ Neck Opening in. (mm)	16.00 (406)	20.70 (527)	25.10 (638)	31.75 (806)	39.40 (1002)
○ Usable Internal Height in. (mm)	28.9 (735)	30.0 (762)	29.5 (749)	29.3 (745)	33.6 (854)
○ Inner Diameter in. (mm)	16.00 (406)	20.70 (527)	25.1 (638)	31.75 (806)	39.40 (1002)
○ Overall Height w/ AutoFill in. (mm)	46.3 (1176)	46.7 (1185)	45.8 (1161)	46.8 (1188)	54.0 (1372)
○ Door Width Requirement** in. (mm) Outer Dimensions	23.6x22.7 (601x577)	30.6x29.7 (778x754)	33.5x34.6 (852x878)	40x41.6 (1017x1056)	46.8x48.9 (1187x1242)
○ Weight Empty lb. (kg)	195 (88)	281 (127)	320 (145)	490 (222)	750 (341)
○ Weight Liquid Full* lb. (kg)	365 (166)	577 (262)	748 (339)	1181 (536)	1950 (885)

FIVE Year Vacuum Warranty - TWO Year Parts Warranty

* Without inventory

**Minimum width required for vessel to pass through opening. Footprint may vary. Contact Tech Service for detailed drawings.

Note: The usable height is decreased when using a vapor platform, and storage capacity is reduced when using a sleeve.





MVE Stock Series

Designed for pull and pack shipment

The MVE Stock Series provides high security for the storage of semen and embryos. The freezers are designed for pull and pack shipment, with a wide neck opening. Although engineered for liquid storage, most MVE Stock Series can be used to store in vapor.

Key Features

- Low liftover height
- LargeLN₂ Capacity



MVE Stock Series

	MVE 103***	MVE 816P-2T-190	MVE 1842P-150	MVE 1877P-2T-150
Maximum Storage Capacity				
Total Bulk Straw Capacity (1/4 cc in 65mm Goblets)	37,720	551,040	2,386,200	551,040
Total Number of 65mm Goblets : Goblets/Level	46:2	672:4	2910:5	672:4
Total Straw Capacity (1/4cc - 10 per Cane)	6,820	35,650	91,140	167,090
Total Number of SUC-1 Canisters	22	115	294	539
Performance				
○ LN ₂ Capacity at Platform Vapor L est.	-	56	-	250
○ LN ₂ Capacity w/o Inventory L est.	39	381	872	1456
Unit Dimensions				
○ Neck Opening in. (mm)	16.0 (406)	12.5 (317)	25.0 (635)	25.0 (635)
○ Usable Internal Height in. (mm)	12.0 (305)	13.0 (330) per level	13.0 (330)	13.0 (330) per tray
○ Inner Diameter in. (mm)	16.00 (406)	28.70 (728) top tier 27.70 (702) bottom tier	56.1 (1425)	56.25 (1429) top and bottom tiers
○ Overall Height with Auto Fill in. (mm)	16.4 (415)***	58.0 (1473)	51.1 (1296)	64.6 (1639)
○ Door Width Requirement** in. (mm) Outer Dims	18 (457)	32 (813)	60 (1524)	60 (1524)
○ Weight Empty* lb. (kg)	48 (22)	475 (215)	1167 (530)	1721 (781)
○ Weight Liquid Full* lb. (kg) est.	117 (53)	1155 (524)	2721 (1234)	4316 (1958)

FIVE Year Vacuum Warranty • TWO Year Parts Warranty

* Without inventory

**Minimum width required for vessel to pass through opening. Footprint may vary. Contact Tech Service for detailed drawings.



MVE CryoCart

Biological sample loading

MVE CryoCarts are designed for the loading of biological samples into canes, boxes, racks or frames. When used as a portable cryogenic workbench, the unit will provide a safe and controlled environment for your samples for up to eight hours with the lid open. MVE CryoCart is ideal for transporting large quantities of samples from one tank to another within the same facility.

Key Features

- Approximate hold time of 18 hours with lid on
- Temperature monitor with type T Thermocouple
- Traceable calibration certificate with RS232 PC interface
- LN₂ transfer hose connection with ball valve and relief valve



MVE CryoCart

Performance

○ LN₂ Capacity w/o Inventory To Top of Platform L est. 39.5

Unit Dimensions

○ Overall Length in (mm) 54.46 (1383)

○ Overall Width in (mm) 20.16 (512)

○ Overall Height in (mm) 39.5 (1003)

○ Lift Overall Height in (mm) 37.2 (944)

○ Inside Length in (mm) 41.0 (1041)

○ Inside Width in (mm) 13.2 (335)

○ Inside Depth in (mm) 15.4 (391)

○ Platform Height in (mm) 4.5 (114)

○ Footprint in (mm) 17.6 x 51.7 (447 x 1313)

○ Weight Empty lb. (kg) 195 (88)

○ Weight w/LN₂ Filled to Top of Platform lb. (kg) est. 266 (121)

○ Number of Racks (15-2) 2

ONE Year Vacuum Warranty • 90 Days Parts Warranty.
Not designed for long-term storage.



MVE Lab Series

Cryogenic liquid dewars

The Lab Series cryogenic liquid dewars are named for their acceptance in laboratories and medical facilities worldwide. These high-efficiency, super insulated dewars are the most convenient, economical way to store and dispense liquid nitrogen. Many lab units can be fitted with pouring spouts, pressurized dispensing devices or dippers to aid in the transfer of liquid nitrogen.

Key Features

- Designed for efficient storage of liquid nitrogen
- Low liquid nitrogen consumption
- Convenient lightweight package



MVE Lab Series

	LAB 4	LAB 5	LAB 10	LAB 20	LAB 30	LAB 50
Performance						
○ LN ₂ Capacity L	4	5	10	20	32	50
○ Static Evaporation Rate* L/day	0.19	0.15	0.18	0.18	0.22	0.49
Unit Dimensions						
○ Neck Opening in. (mm)	1.40 (35)	2.18 (56)	2.18 (56)	2.18 (56)	2.50 (64)	2.50 (64)
○ Useable Height in. (mm)	7.8 (198)	10.5 (266)	13.5 (343)	13.7 (348)	14.9 (378)	22.0 (559)
○ Overall Height in. (mm)	16.8 (426)	18.2 (462)	21.5 (546)	24.5 (622)	24.0 (610)	30.5 (775)
○ Outer Diameter in. (mm)	7.3 (185)	8.8 (222)	10.3 (260)	14.5 (368)	17.0 (432)	17.0 (432)
○ Internal Diameter in. (mm)	5.5 (139)	6.5 (165)	8.3 (210)	11.4 (289)	14.0 (356)	14.0 (356)
○ Weight Empty lb. (kg)	6 (2.7)	8 (4)	12 (5.4)	19 (9)	25 (11.4)	31 (14)
○ Weight Full lb. (kg)	13 (6)	17 (8)	31 (14)	55 (25)	82 (37.2)	120 (54.4)

FIVE Year Vacuum Warranty • TWO Year Parts Warranty

* 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.

Note: The Lab Series is designed for liquid storage.

Tank Features



- A** Durable composite lid design
- B** High strength neck tube reduces liquid nitrogen loss
- C** Strong, lightweight aluminum construction
- D** Advanced chemical vacuum retention system
- E** Liquid Nitrogen Reservoir



MVE SC Series

Compact Aluminum Dewar

The SC Series of tanks offers standard inventory capacity with capacity across the tanks with increasing hold times depending on the capacity. Each tank is equipped with the 2.18in (55mm) neck opening setting the standard for the canister size and inventory capacity. The SC 20/20 Signature builds on the industry gold standard tank for years now revolutionizing into the world most efficient cryogenic dewar fitted with Bend Don't Break durability technology.

Key Features

- Designed for industry standard capacity storage
- Low liquid nitrogen consumption
- Convenient lightweight package
- SC 20/20 Signature includes Bend Don't Break™ durability feature



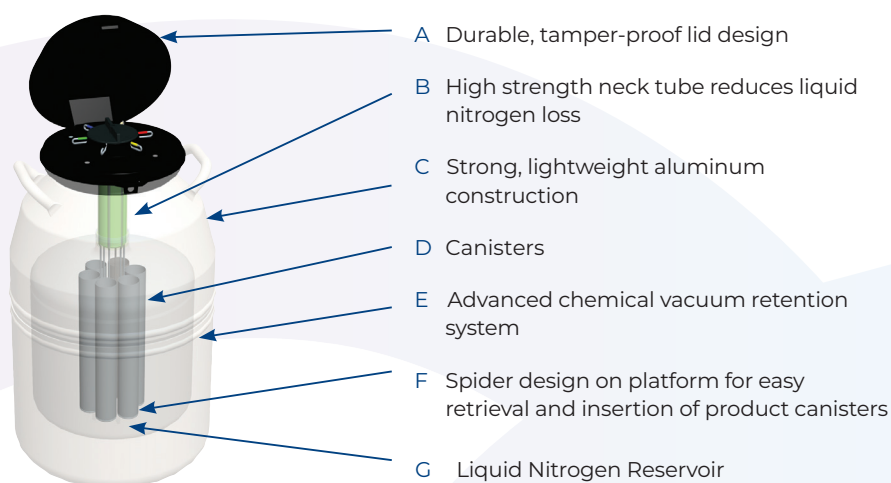
MVE SC Series

	SC 3/3	SC 11/7	SC 20/20 Signature	SC 35/24
Maximum Storage Capacity				
○ Number of Canisters	6	6	6	6
○ Number of 1/2 cc straws 10/cane	-	660	660	660
○ Number of 1/2 cc straws 1 Level Bulk	440	879	879	879
○ Number of 1/4 cc straws	-	210	210	210
Performance				
○ LN ₂ Capacity L	3.6	11.0	20.5	36.5
○ Static Evaporation Rate L/day*	0.13	0.16	0.085	0.1
○ Static Holding Time days	17	43	150	365
Unit Dimensions				
○ Neck Opening in. (mm)	2.18 (55)	2.18 (55)	2.16 (55)	2.18 (55)
○ Overall Height in. (mm)	16.0 (406)	21.6 (549)	26.0 (660)	25.9 (657)
○ Outer Diameter in. (mm)	8.7 (222)	10.2 (260)	14.5 (368)	18.2 (464)
○ Canister Height in. (mm)	5.0 (127)	11.0 (279)	11.0 (279)	11.0 (279)
○ Canister Diameter in. (mm)	1.65 (41.9)	1.65 (41.9)	1.65 (41.9)	1.65 (41.9)
○ Weight Empty lb. (kg)	8 (3.6)	17 (7.7)	22.5 (10.2)	34 (15.4)
○ Weight Full lb. (kg)	14.4 (6.5)	36.6 (16.6)	58.99 (26.7)	100 (44.8)

FIVE Year Vacuum Warranty • TWO Year Parts Warranty

* 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.

Tank Features



MVE XC Series

Large capacity storage

MVE XC Series tanks have capacities ranging from 700–5000 straws and 210 to over 1000 vials. Manufactured to a world-class level of excellence and backed by an industry-leading 5-year vacuum warranty, these durable, lightweight units can be relied on to perform in the most demanding of environments. The XC Series offers a range of capacity depending on the user needs. Neck size and canister dimensions vary from model to model in order to optimize the sample capacity, inventory system, or holding time for each application.

Key Features

- Designed for large-capacity storage
- Low liquid nitrogen consumption
- Convenient lightweight package
- XC 20 Signature includes Bend Don't Break™ & Semen Safe™ durability features



MVE XC Series

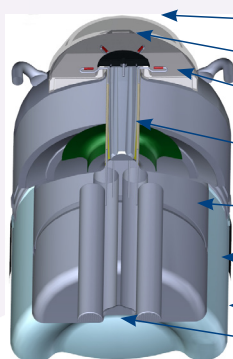
	XC 20 Signature	XC 22/5	XC 32/8	XC 33/22	XC 34/18	XC 47/11-6	XC 47/11-10
Maximum Storage Capacity							
○ Number of Canisters	6	6	9	6	6	6	10
○ Number of 1/2 cc Straws 10/cane	660	2,400	2,520	1,260	2,100	4,500+	3,500
○ Number of 1/2 cc Straws 1 Level Bulk	879	3,666	3,960	1,764	3,000	6,216	5,000
○ Number of 1/2 cc Straws 2 Level Bulk	1,680	-	-	-	630	1,320	1,050
○ Number of 1.2 & 2.0 ml Vials 5/cane	210	810	855	360	-	-	-
Performance							
○ LN ₂ Capacity L	20.5	22.4	32.0	33.4	34.8	47.4	47.4
○ Static Evaporation Rate* L/day	0.090	0.35	0.35	0.14	0.18	0.39	0.39
○ Normal Working Duration**, Full Days	142	40	57	154	123	76	76
Unit Dimensions							
○ Neck Opening in. (mm)	2.18 (55.4)	3.81 (97)	3.81 (97)	2.75 (70)	3.50 (89)	5.00 (127)	5.00 (127)
○ Overall Height in. (mm)	26.0 (660)	22.0 (559)	21.5 (546)	26.0 (660)	26.6 (675)	26.5 (673)	26.5 (673)
○ Overall Inner Height in. (mm)	-	-	-	-	-	-	-
○ Outer Diameter in. (mm)	14.5 (368)	14.5 (368)	18.2 (464)	18.2 (464)	18.2 (464)	20.0 (508)	20.0 (508)
○ Canister Height in. (mm)	11/5 (279/127)	11 (279)	11 (279)	111 (279)	11 (279)	11 (279)	11 (279)
○ Canister Diameter in. (mm)	1.65 (41.9)	3.09 (79)	2.62 (67)	2.22 (56)	2.81 (71)	4.00 (102)	2.81 (71)
○ Weight Empty lb. (kg)	22 (10)	26 (11.8)	30 (13.6)	34 (15.4)	34 (15.4)	42 (19.0)	42 (19.0)
○ Weight Full lb. (kg)	58.4 (26.5)	66.0 (30)	87.0 (39.5)	94.0 (42.5)	96.0 (43.5)	120.4 (54.6)	120.4 (54.6)

FIVE Year Vacuum Warranty • TWO Year Parts Warranty

* 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.

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

Tank Features



- A Tamper-proof, hinged lid
- B Locking tab
- C Color-coded canister/lid numbering system
- D High strength neck tube reduces liquid nitrogen loss
- E Advanced chemical vacuum retention system
- F Insulation to provide maximum thermal performance
- G Strong, lightweight aluminum construction
- H Spider design for easy retrieval and insertion of product



MVE Doble Series

With Advanced QWick™ Charge Technology

The Doble Series cryogenic liquid dewars are the first units to be designed for both vapor shipment and liquid storage. The Doble QWick Series utilizes an absorbent wicking material that charges with liquid nitrogen in two hours. *New/warm tanks still need to be filled with LN₂ and allowed to sit 24 hours to achieve maximum hold time. When a tank is already cold, the Advanced QWick Charge technology will apply, providing the capacity for same-day vapor shipping. A unique absorbent layer in the base of the storage tanks enables them to be charged with nitrogen and employed as dry shippers with hold times of up to 21 days. Once at the final destination, the tanks can be filled with liquid and used for long term storage, therefore avoiding the need for return shipments.

Key Features

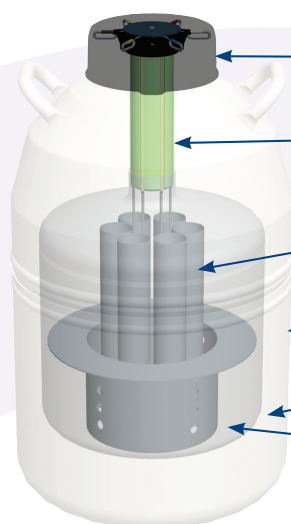
- MVE Protective Shipping Containers are recommended
- Protective shipping containers ensure upright shipping
- Liquid and vapor storage options
- Low liquid nitrogen consumption
- Convenient lightweight package
- Charges in two hours*



MVE Doble Series

	Doble 11	Doble 20	Doble 22	Doble 28	Doble 34	Doble 47-6	Doble 47-10
Maximum Storage Capacity							
○ Number of Canisters	6	6	6	6	6	6	10
○ No. of 1/2 cc Straws 10/cane	660	660	2400	2,400	2,100	4,500	3,500
○ Vial Capacity	210	210	810	810	630	1,320	1,050
Performance (Hold Time overrides NER specifications)							
○ LN ₂ Capacity w/o Inventory L est.	10.0	18.5	20.0	28.0	32.0	46.0	46.0
○ Vapor Capacity L	3.1	4.2	5.5	8.4	7.9	6.0	6.0
○ Static Evaporation Rate L/day	0.17	0.10	0.35	0.35	0.20	0.40	0.40
○ Working Duration days for liquid	37	116	40	50	110	74	72
○ Working Duration days for vapor	17	21	18	21	21	21	21
Unit Dimensions							
○ Neck Opening in (mm)	2.18 (55)	2.18 (55)	3.81 (97)	3.81 (97)	3.50 (89)	5.00 (127)	5.00 (127)
○ Overall Height in (mm)	21.6 (549)	25.5 (647)	22 (559)	22 (559)	26.6 (676)	26.5 (673)	26.5 (673)
○ Outside Diameter in (mm)	10.2 (260)	14.5 (368)	14.5 (368)	18.2 (462)	18.2 (462)	20.0 (508)	20.0 (508)
○ Canister Height in (mm)	11 (279)	11 (279)	11 (279)	11 (279)	11 (279)	11 (279)	11 (279)
○ Canister Diameter in (mm)	1.65 (42)	1.65 (42)	3.09 (79)	3.09 (79)	2.81 (72)	4.00 (101)	2.81 (72)
○ Weight Empty lb. (kg)	14.5 (6.6)	23 (10.4)	23.8 (10.7)	33 (15.0)	34.5 (15.6)	41 (18.5)	41 (18.5)
○ Weight Charged vapor lb. (kg)	19.5 (8.8)	30.3 (13.7)	35 (15.8)	47 (21.3)	47.9 (21.7)	54.6 (24.7)	54.6 (24.7)
○ Weight Full liquid lb. (kg)	32 (14.5)	56 (25.4)	68 (30.8)	89 (40.4)	92 (41.7)	117 (53.1)	117 (53.1)
○ Protective Shipping Container Part No.	20750519	11912460	20750520	11930861	20863878	14035731	14035731

THREE Year Vacuum Warranty • TWO Year Parts Warranty



Tank Features

- A** Durable composite lid design
- B** High strength neck tube reduces liquid nitrogen loss
- C** Canisters
- D** Strong, lightweight aluminum construction
- E** Advanced chemical vacuum retention system
- F** Hydrophobic liquid nitrogen absorbent system



MVE Vapor Shipper Series

With Advanced QWick™ Charge Technology

The MVE Vapor Shipper Series is designed for the safe transportation of biological samples at cryogenic (-150°C or colder) temperatures. MVE Vapor Shipper Series utilizes the Advanced QWick Charge Technology that will charge the vapor shipper in two hours. *New/warm tanks still need to be filled with LN₂ and allowed to sit for 24 hours to achieve maximum hold time. When a tank is already cold, the Advanced QWick Charge technology will apply, providing the benefit of same-day vapor shipping. Manufactured from durable, lightweight aluminum, the vapor shippers employ a hydrophobic compound which absorbs the liquid nitrogen to ensure dry, spill-free vapor- phase shipping. MVE Protective Shipping Containers are recommended for usage. These containers may be used to ship your samples with a “non-hazardous” classification throughout the world, thus reducing costs and helping to assure sample viability.

Key Features

- MVE Protective Shipping Containers are recommended
- Protective shipping containers ensure upright shipping
- Low liquid nitrogen consumption
- Convenient lightweight package
- Safe for international shipping; IATA Dangerous Goods Regulations Exempt (Special Provision A152)
- Charges in 2 hours*



MVE Vapor Shipper Series

	SC 2/1V	SC 4/2V	SC 4/3V	XC 30/12V	Cryo-Shipper	Cryo-Shipper XC	CryoShipper 2000	IATA	65/5V
Maximum Storage Capacity									
○ No. of Canisters	1	1	1	1	1 Rack	-	4 square racks	Stainless Steel Secondary Container Dimensions: 7-3/8" diameter 8-3/4" deep	1x 5/2 vial box rack (100 vials/box)
○ No. of 1/2 cc Straws 10/cane	-	280	120	60		-			
○ No. of 1/2 cc Straws 1 Level Bulk	88	440	210	312		-			
○ No. of 1/4 cc Straws 1 Level Bulk	182	938	452	660		-			
○ No. of 1.2 & 2.0 ml Vials 5/cane	-	95	40	30		-			
○ No. of 1.2 & 2.0 ml Vials 6/cane	-	102	48	36		500	966 (Bulk)		
○ No. of blood bags stored 4R9953	-	-	-	-	10	10			
Performance (Hold Time overrides NER specifications)									
○ LN ₂ Capacity L	1.5	3.6	4.3	18	8.5	10.0	65	10.0	27.4
○ Static Holding Time Days	8	13	21	82	10	14	15	14	40
○ Static Evaporation Rate* L/day	0.19	0.26	0.20	0.22	0.85	0.70	.79	0.70	0.79
Unit Dimensions									
○ Neck Opening in. (mm)	1.40 (35.0)	2.75 (70.0)	2.00 (51.0)	2.00 (51.0)	8.50 (216.0)	8.50 (216.0)	8.5 (216)	8.50 (216.0)	8.50 (216.0)
○ Overall Height in. (mm)	13.5 (343)	18.4 (468)	19.4 (492)	24.3 (617)	21.5 (546)	23.0 (584)	27.2 (692)	23.0 (584)	27.3 (694)
○ Outer Diameter in. (mm)	7.25 (184)	8.70 (222)	8.70 (222)	17.0 (432)	14.50 (369)	15.00 (381)	22.0 (559)	15.00 (381)	22 (559)
○ Canister Height in. (mm)	5.0 (127)	11.0 (279)	11.0 (279)	11 (279)	11.0 (279)	12.5 (317.5)		8.75 (222.25)	-
○ Canister Diameter in. (mm)	1.20 (31)	2.62 (67)	1.81 (46)	1.96 (50)	5.6 (142) x 6.6 (167)***	8.5 (216)		7.375 (187.325)	-
○ Weight Empty lb. (kg)	6.0 (2.7)	10.0 (4.5)	11.6 (5.3)	44 (20)	26.1 (11.8)	33.0 (15.0)	65 (29.5)	33.0 (15.0)	74.5 (33.9)
○ Weight Charged lb. (kg)	8.0 (3.6)	17.1 (7.7)	19.1 (8.7)	76 (34)	39.0 (17.7)	49.0 (22.2)	95 (43.1)	49.0 (22.2)	145.5 (66.2)
○ Weight Full lb. (kg)	9.0 (4.1)	20.0 (9.1)	21.0 (9.5)	82 (37.2)	54.5 (24.7)	73.0 (33.1)	185 (83.9)	73.0 (33.1)	185 (83.9)
○ Protective Shipping Container Part No.	20750408	20750409	20750409	21325842	20750520	10741726	12875162	10741726	12875162

TWO Year Parts Warranty • THREE Year Vacuum Warranty

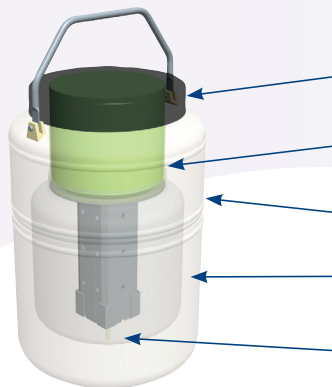
* Without inventory

*** CryoShipper has a rectangular assembly measuring 5.6" (142 mm) by 6.6" (167 mm) with a usable height of 11.0" (279 mm).

Hold time specs actual performance may vary with atmospheric conditions, sample temperature, and usage.

Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU.

Tank Features



- A** Durable, tamper-proof lid design
- B** High strength neck tube reduces liquid nitrogen loss
- C** Strong, lightweight aluminum construction
- D** Advanced chemical vacuum retention system
- E** Hydrophobic Liquid Nitrogen absorbent system

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MVE CryoCube™ & BL-7

One-way cryogenic shipping

The MVE CryoCube and MVE BL-7 (Biologicistic) are secure one-way cryogenic shipping options for your biological samples. Both units incorporate creative engineering and simplistic design to allow shipping in any orientation without sacrificing temperature or hold time. Improved welded construction provides the MVE CryoCube and MVE BL-7 with consistent, high quality design with every unit. The units allow you to spend more time managing samples instead of managing shippers.

Key Features

- Charges in 2 hours*
Full charge - 24 hours*
Quick charge - 2 hours*
- Operates as a dry shipper
- -150° C temperature
- 7-day (BL-7) or 5-day (CryoCube) holding time
- Safe shipping in any orientation
- Safe for international shipping
- Welded construction for added integrity



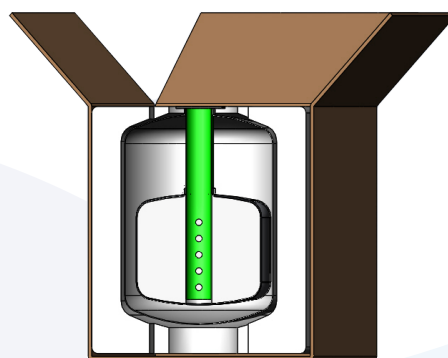
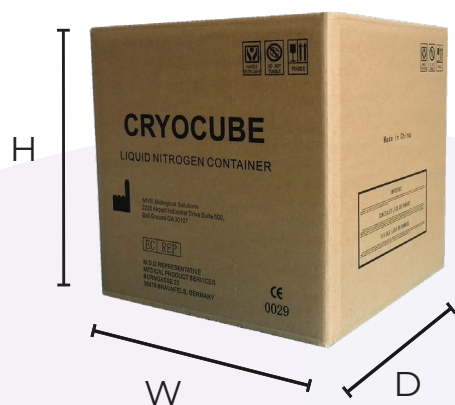
CryoCube Insert

MVE CryoCube™ & BL-7

	MVE CryoCube™	MVE BL-7
Maximum Storage Capacity		
○ Number of Canisters	1	1
○ Number of 1/2 cc Straws 1 Level Bulk	182	270
Performance		
○ LN ₂ Capacity w/o Inventory L est.	1.5	2.1
○ Static Holding Time* days	5	7
Unit Dimensions		
○ Neck Opening in. (mm)	1.4 (35)	1.97 (50)
○ Overall Height in. (mm)	12.5 (317.5)	15.0 (381)
○ Overall Width in. (mm)	12 (305)	12.64 (321)
○ Overall Diameter in. (mm)	1.25 (32)	1.50 (38)
○ Weight Empty lb. (kg)	7.5 (3.41)	9.26 (4.2)
○ Weight Charged vapor lb. (kg)	10.2 (4.63)	13.01 (5.9)

ONE Year Vacuum Warranty

* 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.



Data Logger

PDF Logger with USB and Bluetooth® interface

With the Data Logger, you require only one single device to monitor temperature during the global transfer of cryobiological goods. MVE also provides the option for the data logger to be preinstalled onto the lids of our MVE vapor shippers.

*Note that the Data Logger adds 0.16 L/day loss rate to any tank to which it is attached.

Key Features

- Records and stores up to 75,500 data points
- High and low alarm settings
- Up to 3 year calibration certificate
- 2 year lifespan
- No additional software or cables needed!
- ISO 19005-1
- Conformity: CE, FCC, RoHS, Safe Transport of Chemical Goods, WEEE



Data Logger

Specifications	
○ Dimensions L, W, H in (mm)	3.74 x 1.61 x 0.43 (95 x 41 x 11)
○ Weight lb (g)	0.1 (44)
○ Temperature Range	-200°C to +200°C
○ Accuracy	± 1.4°C [-200°C to -100°C]
○ Resolution	0.1°C
○ Display in (mm)	Multifunction LCD, 0.87 x 0.87 (22 x 22)
○ Case	ABS plastic
○ Battery	Non-replaceable
○ Battery Life	2 years (in core range of 0°C to +25°C; 14 months over full temperature range)
○ Sensor	Pt100 4-wire class A
○ Memory	75,500 data points
○ Interface	USB – PC Universal Serial Bus
○ Evaluation Report	Built-in PDF file generator automatically establishes an evaluation report with embedded data upon connection to a USB port. Complies with the ISO Standard 19005-1 Document Management for the long-term preservation of electronic documents (PDF/A) and FDA 21 CFR Part 11.

ONE Year Warranty - No returns.



MVE CryoTipper

LN₂ tank transportation and LN₂ dispensing

The MVE CryoTipper introduces a new solution for transporting and dispensing LN₂ for our our cryogenic aluminum tanks. The CryoTipper system is design to transport the tank in the upright configuration regardless of the orientation of the CryoTipper due to the unique design of the CryoTipper's swivel system. Transporting the dewar in the upright configuration increases the safety concerns when transporting tanks such as the risk of spilling LN₂. The CryoTipper's swivel system also enables tipping the dewar completely upside down in order to dispense liquid nitrogen. Heavy duty velcro strap are included to secure the tank into the CryoTipper when being transported or used to dispense LN₂.



Key Features

- Swivel system to enable tipping and inverting the dewar to dispense LN₂ from an MVE liquid tank or vapor shipper
- Heavy duty velcro straps to secure tank into swivel cage system
- Cage system padding to protect the tank from damage
- Rugged rubber wheels for easily transporting tanks on all surfaces
- Adjustable ring to ensure tight fit around the tank

MVE CryoTipper

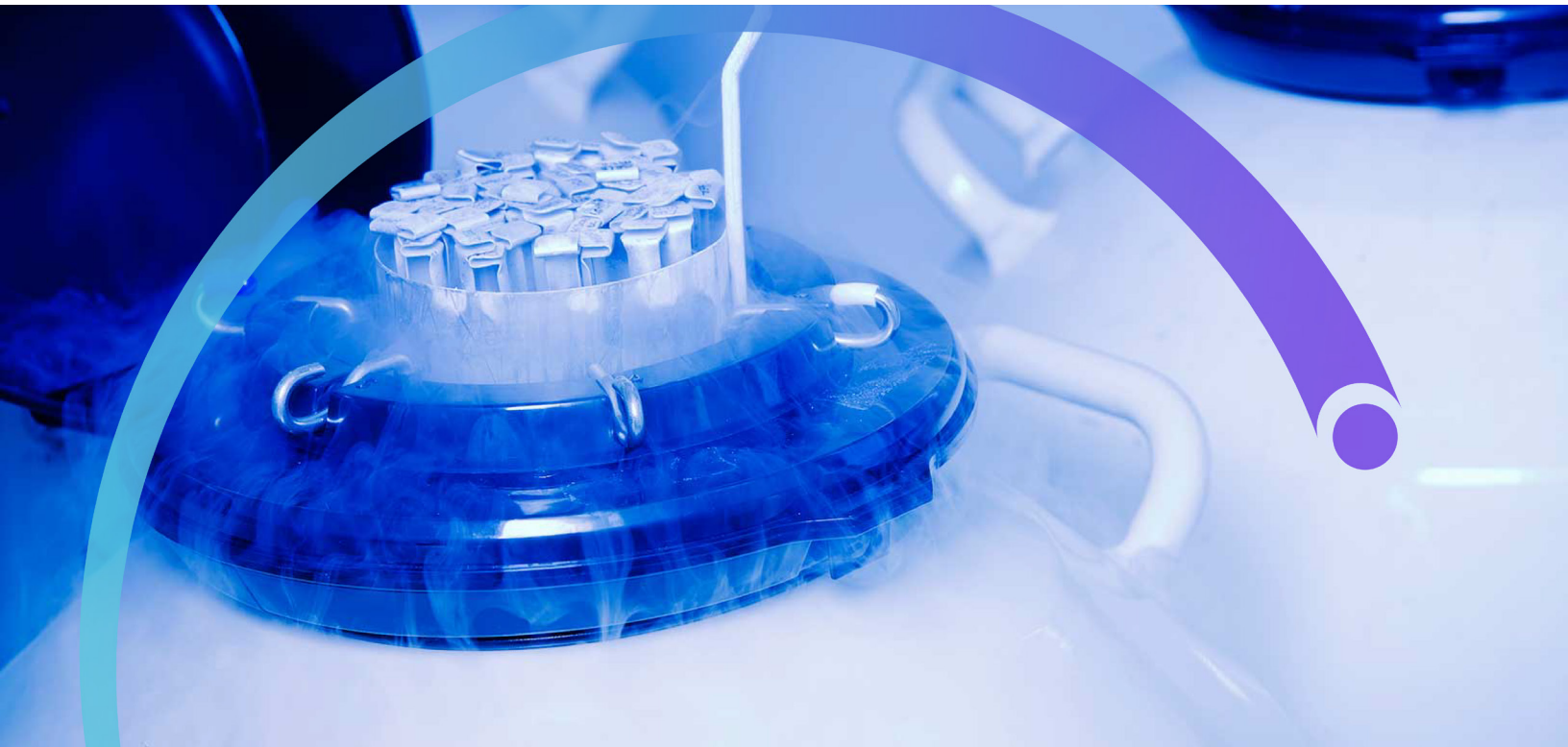
	Medium	Large
Specifications		
○ Tank Diameter Range in. (mm)	14.5 (368) - 17.0 (432)	17.1 (434) - 20 (508)
○ Model Fit Range	XC-20 Signature - Lab 30	XC 34/18 to XC 47/11
○ Weight lb (kgs)	40.0 (18.1)	50 (22.6)
○ Material	Stainless Steel	Circular Tube
○ Part Number	21714640	21714641

* Tank will fit any dewar model securely within the specified diameter range

* Some assembly required

CryoTipper in Horizontal Position





Visit www.mvebio.com for more information. 1-844-MVE-CRYO



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Intended Use & Indication for Use for Cryogenic Storage and/or Transport

ANIMAL HEALTH INTENDED USE STATEMENT

STORAGE AND TRANSPORT

MVE dewars, freezers and vapor shippers are intended for the indication of preserving animal biological products, samples, and/or specimen (e.g., blood, blood products, cells, tissues, vaccines, etc.) at cryogenic temperatures during storage and/or transportation.

WARNINGS, PRECAUTIONS, AND CONTRAINDICATIONS

These products are not intended for human use and/or use on biological products deriving from humans and are not intended for use as a medical device.

