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## MVE SC 4/2V & 4/3V

### Next Generation Vapor Shipper

MVE has redesigned its popular 4L vapor shippers—the SC 4/2V and SC 4/3V—to enhance performance and reliability. These vapor shippers are the industry standard for efficiency and durability, now fitted with our patented BEND DON'T BREAK™ technology. The newly designed top head shape deforms under excessive G-force loads, allowing the dewar to absorb impact forces more effectively, reducing the risk of structural failure and minimizing damage from mishandling during transport. Additionally, MVE's patent-pending Vapor Shield Technology minimizes the risk of vacuum degradation resulting from LN<sub>2</sub> overfill. These innovative improvements ensure greater reliability and improved vacuum integrity, continuing to make MVE dewars the industry standard for valuable sample shipments.



### Key Product Features

- **Enhanced Inner Construction:** Improvement over current design to withstand the physical stress of shipping and handling.
- **Durable Neck Ring Design:** Increased structural integrity to avoid breakage during transport.
- **Integrated Locking Tab:** Avoids welded tab breaks for added security.
- **Improved Hold Times:** Significantly improved hold times - between 19 to 26 days - to mitigate shipment delay risk.
  - SC 4/2V: Increased from **13 days** to **19 days**
  - SC 4/3V: Increased from **21 days** to **26 days**
- **Vapor Shield Technology:** Minimizes the risk of vacuum degradation resulting from LN<sub>2</sub> overfill.

### Applications

- Secure transportation of biological samples for research and healthcare industries
- Cold chain logistics for IVF, pharmaceutical, life science and animal husbandry sectors

### Specifications

SC 4/2V	SC 4/3V
<b>Capacity (L)</b> 4.1	<b>Capacity (L)</b> 4.5
<b>Static Hold Time (days)</b> 19	<b>Static Hold Time (days)</b> 26
<b>Weight (Empty)</b> 12.4 lbs	<b>Weight (Empty)</b> 12.5 lbs
<b>Weight (Full)</b> 23.3 lbs	<b>Weight (Full)</b> 23.2 lbs

### Contact Info

MVE Biological Solutions  
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# MVE SC 4/2V & 4/3V

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## Technical Specifications

	SC 4/2V	SC 4/3V
<b>Maximum Storage Capacity</b>		
○ No. of Canisters	1	1
○ No. of 1/2 cc Straws 10/cane	280	120
○ No. of 1/2 cc Straws 1 Level Bulk	440	210
○ No. of 1/4 cc Straws 1 Level Bulk	938	452
○ No. of 1.2 & 2.0 ml Vials 5/cane	95	40
○ No. of 1.2 & 2.0 ml Vials 6/cane	102	48
<b>Performance (Hold Time overrides NER specifications)</b>		
○ LN <sub>2</sub> Capacity L	4.1	4.5
○ Static Holding Time Days	19	26
○ Static Evaporation Rate* L/day	0.23	0.19
<b>Unit Dimensions</b>		
○ Neck Opening in. (mm)	2.75 (70.0)	2.00 (51.0)
○ Overall Height in. (mm)	19.6 (498)	19.6 (498)
○ Outer Diameter in. (mm)	8.94 (227)	8.94 (227)
○ Canister Height in. (mm)	11.0 (279)	11.0 (279)
○ Canister Diameter in. (mm)	2.62 (67)	1.81 (46)
○ Weight Empty lb. (kg)**	12.4 (5.6)	12.5 (5.7)
○ Weight Charged lb. (kg)**	19.7 (8.9)	20.5 (9.3)
○ Weight Full lb. (kg)**	23.3 (10.6)	23.2 (10.5)
○ Protective Shipping Container Part No.	20750409	20750409

### THREE 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.

\*\*Weight +/-5% typical

## Accessories

### ○ Protective Shipping Container

MVE Biological Solutions' Protective Shipping Containers for the 4/2V and 4/3V models are designed to ensure safe and secure transport of biological samples at cryogenic temperatures. These containers feature enhanced padding, anti-tipping design, and a locking mechanism to maintain upright and secure transit.



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

#### LIFE SCIENCE INTENDED USE STATEMENT

#### STORAGE AND TRANSPORT

MVE Dewars and Vapor Shippers are intended for the indication of preserving human biological products, samples, and/or specimens (e.g., blood, blood products, cells, tissues, etc.) at cryogenic and ultracold temperatures during storage and/or transportation.

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