

CRYOPRESERVATION EQUIPMENT

MVE VAPOUR SHIPPERS

KEY PRODUCT FEATURES AND BENEFITS

- Lightweight aluminium design
- Superior Hydrophobic absorbent
 - Enables easy cleaning between shipments
- Low liquid nitrogen loss
- Locking tab for shipments
- Protective shipping carton available
 - Unique shape keeps shipper upright during transit



PRODUCT DESCRIPTION:

MVE Vapour Shipper containers are designed for the safe transportation of biological samples at cryogenic (-150°C or colder) temperatures.

Wide Range of Sizes - The vapour shippers have capacities ranging from 60 – 4000 straws and 9 to over 1000 vials.

Lower Lifetime Costs - The unique design of the MVE Vapour Shippers with their high strength neck tube, advanced chemical vacuum retention systems and advanced insulation system all provide maximum thermal performance which reduces liquid nitrogen boil off reducing your liquid nitrogen consumption.

Sample Security - The MVE Vapour Shipper range have long liquid nitrogen holding times as a result of the superior vacuum performance, which is maintained over the life of the product, providing enhanced security for stored samples.

User Friendly Features - Fabricated from durable, lightweight aluminium, the MVE Vapour Shippers employ a hydrophobic absorbent that contains the liquid nitrogen for “spill free” shipping. The absorbent also repels moisture and humidity, assuring the maximum holding time. In addition the hydrophobic properties allow cleaning with water and detergents.

A protective shipping carton is available for all models (except the SC 20/12V) which protects the container from being placed on its side and helps in withstanding the rigours of transportation. 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.

Warranty - Three year vacuum warranty. The reliability and life of Chart MVE’s products is well renowned due to the rugged design, high quality welds and advanced vacuum technology.

CryoService Deliver a Total Solution - *to meet a wide variety of Cryopreservation requirements. This includes liquid gases and associated storage vessels, super insulated vacuum transfer pipelines, the best liquid nitrogen vapour storage freezers on the market, oxygen depletion systems and business management outputs – a total package from one provider. The Chart MVE range extends from a broad line of liquid and vapour phase freezers for straw, ampoule & blood bag storage to lightweight aluminium shippers and Dewars.*

CRYOPRESERVATION EQUIPMENT

MVE VAPOUR SHIPPERS

DETAILED SPECIFICATION

Model Name	SC 2/1V	SC 4/2V	SC 4/3V	SC 20/12V	XC 20/3V*	MINI MOOVER	CRYO MOOVER	CRYO SHIPPER MINI	CRYO SHIPPER	CRYO SHIPPER XC	IATA
MAX STORAGE CAPACITY											
Number of Canisters	1	1	1	6	4 +1 Centre	1	7	-	1 Rack	-	1 Rack
No. of 1/2 cc Straws (10/cane)	-	280	120	540	2,500/2,000*	60	3,080	-	-	-	-
No. of 1/2 cc Straws (1 level bulk)	88	440	210	780	3,750/3,000*	88	4,354	-	-	-	-
No. of 1/4 cc Straws (1 level bulk 182)	938	452	1,630	7,410/6,000	-	8,904	-	-	-	-	-
No. of 1.2 & 2.0 ml Vials (5/cane)	-	95	40	150	675/560*	20	945	-	-	-	-
No. of 1.2 & 2.0 ml Vials (6/cane)	9	106	48	180	840/672*	24	1,134	-	500	966 (Bulk)	-
No. of Blood Bag Stored (4R9953)	-	-	-	-	-	-	-	-	10	10	-
PERFORMANCE											
Liquid Nitrogen Capacity (litres)	1.5	3.6	4.3	12.3	6.8	2.9	4.2	5.9	8.5	10	11.8
Static Evaporation Rate (litres/day)	0.19	0.26	0.20	0.09	0.30	0.20	0.35	0.84	0.85	0.70	0.80
Static Holding Time (days)	8	13	21	85	23	14	12	7	10	14	14
UNIT DIMENSIONS											
Neck Opening (mm)	35	70	51	51	97	35	97	216	216	216	216
Overall Height (mm)	343	468	492	652	635	495	558	508	546	584	610
Outside Diameter (mm)	184	222	222	368	368	184	464	295	369	381	381
Canister Height (mm)	127	278	278	279	278	278	278	-	-	317.5**	-
Canister Diameter (mm)	31	67	46	38	80	31	79	-	-	-	-
Weight Empty (kg)	2.7	5	5.9	13.6	10.5	3.6	13.8	419	10.9	13.6	131
Weight Charged (kg)	4	7.7	9.3	23.6	16	5	17.2	871	17	21.4	22.9

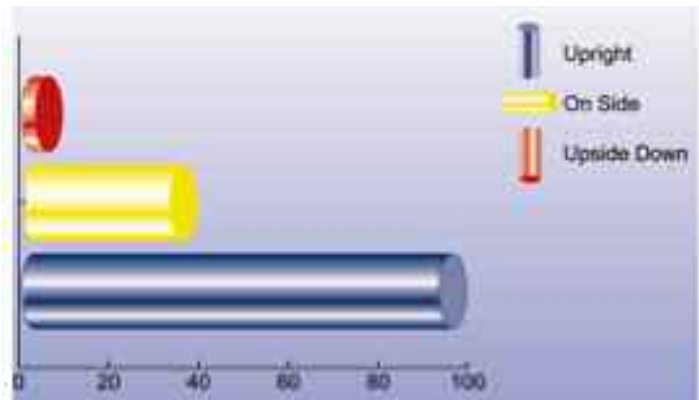
Static evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the nature of container use, atmospheric conditions, and manufacturing tolerances. Without centre absorbent canister two week holding time, greater storage capacity.

* With centre absorbent canister (3 week hold time)

** Useable height

ACCESSORIES:

- Data logger
 - Fits in the lid of the shipper
 - Temperature logged at intervals set by the user from 30 secs up to 99 mins
 - Stores up to 8,192 entries.
 - Measures the temperature at the top of the shipper
- IATA Dewar, Vials and absorbent cloths
 - For shipping of potential infectious substances
- Protective shipping carton
 - Unique shape prevents shipper being placed on its side or upside down (see graph)



Graph showing effect of transporting a shipper on its side or upside down. The horizontal axis shows the percentage of the manufacturer's stated static holding time achieved.

VAPOUR SHIPPER RANGE

