



LN2 Vapor Shippers

For safe product transportation at cryogenic temperatures

The phasetwo VS Series provides customers with the latest technology providing enhanced product security. The design system allows fast charging of the dry shippers. The available In-Transit Monitoring System can be attached to have visibility of the shipment at all times.

The dedicated shipping container provides a fully foamed inner for a secure location of the shipper, and a safe and convenient location for the documentation. Our premium multi-layer insulation, latest vacuum technology systems, and other premium materials provides leading industry performance. Engineering utilized finite element analysis, coupled with specific testing, to create durable aluminum shippers suitable for the best performance for today's requirements.

Features

- **Lockable lid**
- **Available In-Transit Monitoring System for product security**
- **Premium materials provide industry leading LN2 performance**
- **Charge all models in less than two hours**

The VS Series cryogenic dry shipping containers manufactured by phasetwo are compliant with the 54th Edition of the International Air Transport Association (IATA) Dangerous Goods Regulation PI202-Packing Instruction 202 for Open Cryogenic Receptacles.



Cryo
Courier

VS2-1

VS4-3

VS8-2

VS10-2



phasetwo®

| VS Series Model | CryoCourier | VS2-1 | VS4-3 | VS8-2 | VS10-2 |
|--------------------------------|----------------------|---------------------|---------------------|-----------------------------------|-----------------------------------|
| LN2 Capacity (L) | 2.6 | 1.5 | 4.2 | 8 | 10 |
| Outer Diameter (in/mm) | 7.25 (184) | 7.25 (184) | 9.2 (234) | 16 (406) | 16 (406) |
| Overall Height (in/mm) | 16.2 (411) | 13.5 (343) | 18.38 (467) | 20.2 (514) | 23.5 (597) |
| Neck Opening (in/mm) | 1.4 (36) | 1.4 (36) | 2.78 (71) | 7 (178) | 8.5 (216) |
| Canister Dimensions (in/mm) | 1.2x11 (30.5x279) | 1.2x5 (30.5x127) | 2.64x11 (67x279) | N/A | N/A |
| Weight Full (lbs/kg) | 13.7 (6.2) | 9 (4.1) | 20.88 (9.47) | 43.2 (19.6) | 48.7 (22.1) |
| Weight Empty (lbs/kg) | 9 (4.1) | 6.4 (2.9) | 13.2 (6) | 28.9 (13.1) | 32.6 (14.8) |
| Static Evaporation Rate(L/Day) | 0.15 | 0.15 | 0.21 | 0.5 | 0.7 |
| Static Holding Time (days) | 14 | 9 | 20 | 15 | 14 |
| 1.2 & 2ml Vials(6/Cane) | 18 | N/A | 102 | 200 (2 each 100-cell boxes) | 500 (5 each 100-cell boxes) |
| 1/2cc Straws (10/Cane) | 30 | N/A | 280 | N/A | N/A |

Evaporation Rate and Static Holding Time are nominal. Actual Evaporation rate and static holding time will be affected by application, atmospheric conditions, container history and manufacturing tolerances.

Vacuum: 3 year warranty
Materials and Workmanship: 2 year warranty
Parts and Accessories: 90 day warranty