



phasetwo®

## LN2 (Dry) 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 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**
- **In Transit Monitoring System (Sendum) for product security**
- **Premium materials provide industry leading LN2 performance**
- **Charge all models in less than two hours**





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## GENERAL SPECIFICATIONS

| CCF-Series Model                | VS2-1            | VS4-3           | VS10-2       |
|---------------------------------|------------------|-----------------|--------------|
| LN2 Capacity (L)                | 1.5              | 4.36            | 10           |
| Outer Diameter (in/mm)          | 7.25 (184)       | 9.2 (234)       | 14.5 (368.3) |
| Overall Height (in/mm)          | 13.5 (343)       | 18.38 (467)     | 23.5 (597)   |
| Neck Opening (in/mm)            | 1.4 (36)         | 2.78 (71)       | 8.5 (216)    |
| Canister Dimensions. (in/mm)    | 2.64x11 (67x279) | 3.7x11 (94x279) | N/A          |
| Weight Full (lbs/kg)            | 9 (4.1)          | 20.88 (9.47)    | 48.7 (22.1)  |
| Weight Empty (lbs/kg)           | 6.4 (2.9)        | 13.2 (6)        | 32.6 (14.8)  |
| Static Evaporation Rate (L/day) | 0.15             | 0.2             | 0.7          |
| Static Holding Time (days)      | 9                | 22              | 14           |
| 1.2 & 2ml Vials (6/cane)        | N/A              | 102             | N/A          |
| 1/2cc Straws (10/cane)          | 88               | 280             | N/A          |