



The Doble Series cryogenic liquid dewars are the first units to be designed for both vapor shipment and liquid storage. 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 30 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.

Features Include:

- Liquid and vapor storage options
- Low liquid nitrogen consumption
- Convenient lightweight package

Accessories:



CryoGloves



Vapor Insert



Liquid Level
Measuring Stick

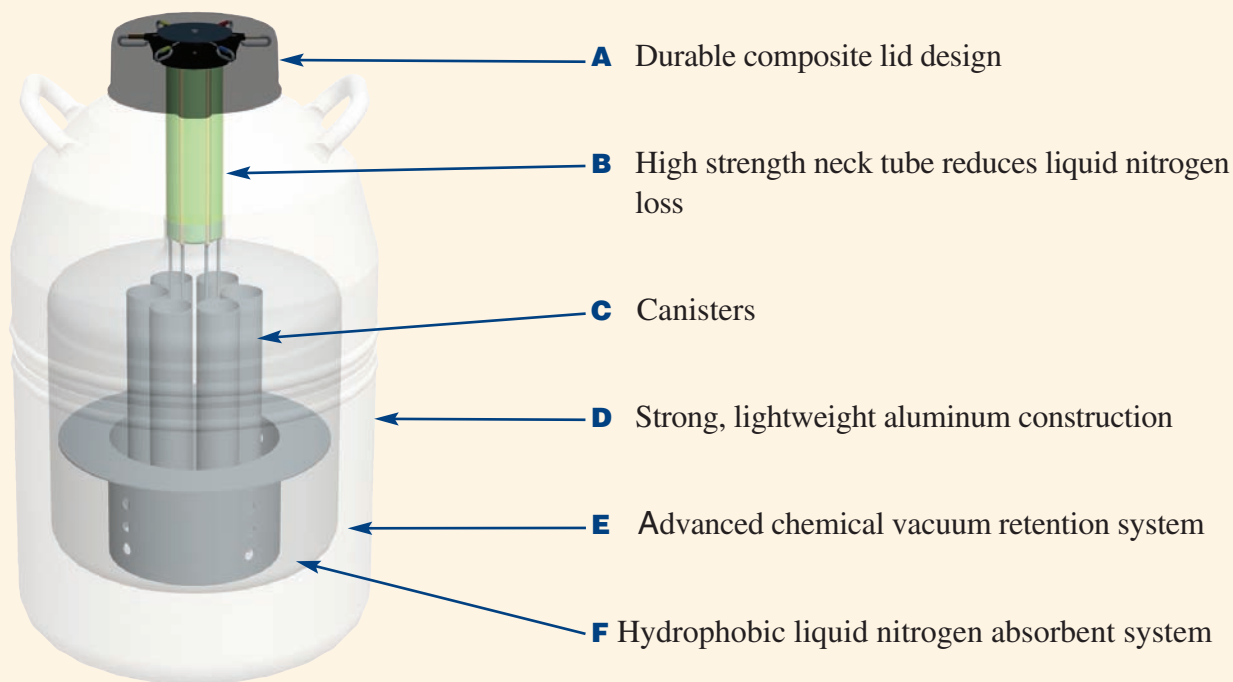


Protective Shipping
Carton



Roller Base

Tank Features



| | Doble 11 | Doble 20 | Doble 28 | Doble 34 | Doble 47 | Doble 47-10 |
|------------------------------|----------|----------|----------|----------|----------|-------------|
| Number of Canisters | 6 | 6 | 6 | 6 | 6 | 10 |
| No. of 1/2 cc Straws 10/cane | 660 | 660 | 2400 | 2100 | 4500 | 3500 |
| Vial Capacity | 210 | 210 | 810 | 630 | 1320 | 1050 |

Performance

| | | | | | | |
|--|------|------|------|------|------|------|
| Liquid Nitrogen Capacity <i>L</i> | 10.0 | 18.5 | 28.0 | 32.0 | 46.0 | 46.0 |
| Vapor Capacity <i>L</i> | 3.1 | 2.8 | 8.4 | 6.7 | 8.4 | 9.6 |
| Static Evaporation Rate <i>L/day</i> | 0.17 | 0.10 | 0.35 | 0.20 | 0.40 | 0.40 |
| Normal Working Duration <i>days for liquid</i> | 37 | 116 | 50 | 100 | 74 | 72 |
| Normal Working Duration <i>days for vapor</i> | 17 | 21 | 24 | 30 | 21 | 2 |

Unit Dimensions

| | | | | | | |
|--------------------------------------|-------------|------------|------------|------------|-------------|-------------|
| Neck Opening <i>in (mm)</i> | 2.18 (55) | 2.18 (55) | 3.81 (97) | 3.50 (89) | 5.00 (127) | 5.00 (127) |
| Overall Height <i>in (mm)</i> | 21.6 (549) | 25.7 (652) | 22 (559) | 26.6 (676) | 26.5 (673) | 26.5 (673) |
| Outside Diameter <i>in (mm)</i> | 10.2 (260) | 14.5 (368) | 18.2 (462) | 18.2 (462) | 20.0 (508) | 20.0 (508) |
| Canister Height <i>in (mm)</i> | 11 (279) | 11 (279) | 11 (279) | 11 (279) | 11 (279) | 11 (279) |
| Canister Diameter <i>in (mm)</i> | 1.65 (41) | 1.65 (42) | 3.09 (78) | 2.81 (72) | 4.00 (101) | 2.81 (72) |
| Weight Empty <i>lb. (kg)</i> | 17.0 (7.7) | 25.2 (12) | 34.0 (16) | 39.2 (18) | 47.0 (21.3) | 48.0 (21.8) |
| Weight Charged vapor <i>lb. (kg)</i> | 22.5 (10.2) | 30.2 (14) | 49.0 (22) | 51.0 (23) | 63.0 (28.6) | 64.0 (29) |
| Weight Full <i>liquid lb. (kg)</i> | 36 (16) | 60 (27) | 84 (38) | 95 (43) | 125 (57) | 120 (54.5) |
| Cabosil <i>lb. (kg)</i> | 1.0 (.45) | 1.0 (.45) | 3.5 (1.58) | 2.0 (.9) | 2.5 (1.2) | 3.4 (1.6) |

THREE Year Warranty

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

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