



MVE Doble Series



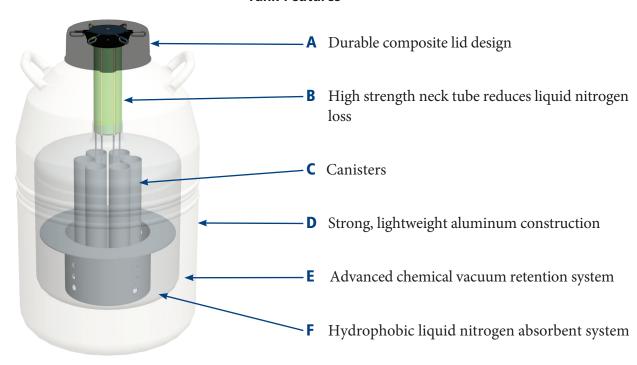
The Doble Series cryogenic liquid dewars are the first units to be designed for both vapor shipment and liquid storage. A unique absorbent layer in the base of the storage tanks of both series enables them to be charged with nitrogen and employed as dry shippers with hold times of up to 30 days. Once 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



Tank Features



Doble Series	Doble 11	Doble 20	Doble 28	Doble 34	Doble 47	Doble 47-10
Normal Working Duration days for liquid	37	116	50	100	74	72
Normal Working Duration days for vapor	17	21	24	30	21	21
Maximum Storage Capacity						
Number of Canisters	6	6	6	6	6	10
No. of 1/2 cc Straws 10/cane	660	660	2,400	2,100	4,500	3,500
Vial Capacity	210	210	810	630	1,320	1,050
Performance						
Liquid Nitrogen Capacity L	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 L/day	0.17	0.10	0.35	0.20	0.40	0.40
Unit Dimensions						
Neck Opening in (mm)	2.18 (55)	2.18 (55)	3.81 (97)	3.50 (89)	5.00 (127)	5.00 (127)
Overall Height in (mm)	21.6 (549)	25.7 (652)	22 (559)	26.6 (676)	26.5 (673)	26.5 (673)
Outside Diameter in (mm)	10.2 (260)	14.5 (368)	18.2 (462)	18.2 (462)	20.0 (508)	20.0 (508)
Canister Height in (mm)	11 (279)	11 (279)	11 (279)	11 (279)	11 (279)	11 (279)
Canister Diameter in (mm)	1.65 (41)	1.65 (42)	3.09 (78)	2.81 (72)	4.00 (101)	2.81 (72)
Weight Empty <i>lb. (kg)</i>	14.5 (6.6)	22.0 (10.0)	33.0 (15.0)	34.0 (15.4)	41.0 (18.6)	41.0 (18.6)
Weight Charged vapor lb. (kg)	18.5 (8.4)	26.0 (11.8)	47.0 (21.3)	45.5 (20.6)	55.0 (24.9)	55.0 (24.9)
Weight Full <i>liquid lb. (kg)</i>	32 (14.5)	56 (25.4)	89 (40.4)	92 (41.7)	117 (53.1)	117 (53.1)
Cabosil <i>lb. (kg)</i>	1.0 (0.45)	1.0 (0.45)	3.5 (1.58)	2.0 (0.9)	3.4 (1.5)	3.4 (1.5)