

## MVE Doble Series

### Featuring Advanced QWick™ Charge Technology

The Doble Series cryogenic liquid dewars are the first units to be designed for both vapor shipment and liquid storage. The Doble QWick Series utilizes an absorbent wicking material that charges with liquid nitrogen in two hours, providing the capacity for same-day vapor shipping. 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
- **CHARGES IN TWO HOURS**

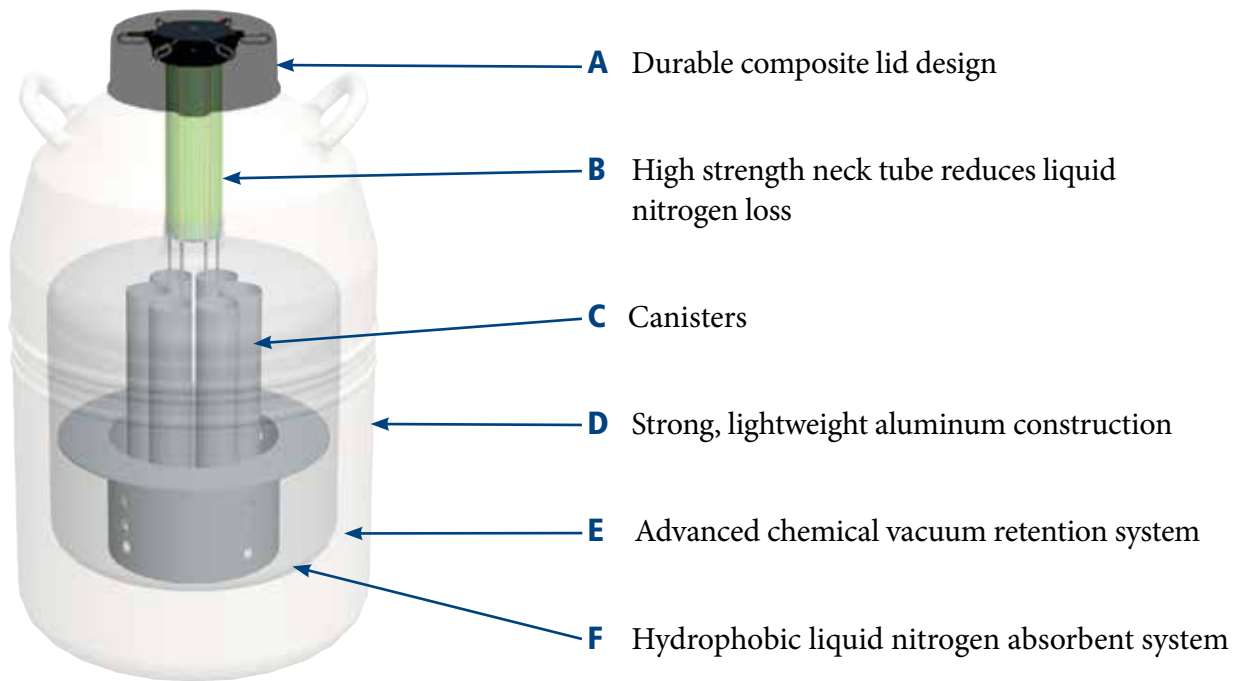


**ADVANCED**  
**QWick Charge Technology**

Charges in under 2 hours

Ref 2088994 Rev A

## Tank Features



	Doble 11	Doble 20	Doble 22	Doble 28	Doble 34	Doble 47	Doble 47-10
<b>Maximum Storage Capacity</b>							
Number of Canisters	6	6	6	6	6	6	10
No. of 1/2 cc Straws 10/cane	660	660	2400	2,400	2,100	4,500	3,500
Vial Capacity	210	210	810	810	630	1,320	1,050
<b>Performance</b>							
LN2 Capacity w/o Inventory w/o Inventory L est.	10.0	18.5	20.0	28.0	32.0	46.0	46.0
Vapor Capacity L	3.1	2.8	6.7	8.4	6.7	8.4	9.6
Static Evaporation Rate L/day	0.17	0.10	0.35	0.35	0.20	0.40	0.40
Working Duration days for liquid	37	116	40	50	100	74	72
Working Duration days for vapor	17	21	18	24	20	21	21
<b>Unit Dimensions</b>							
Neck Opening in (mm)	2.18 (55)	2.18 (55)	3.81 (97)	3.81 (97)	3.50 (89)	5.00 (127)	5.00 (127)
Overall Height in (mm)	21.6 (549)	25.7 (652)	22.0 (559)	22 (559)	26.6 (676)	26.5 (673)	26.5 (673)
Outside Diameter in (mm)	10.2 (260)	14.5 (368)	14.5 (368)	18.2 (462)	18.2 (462)	20.0 (508)	20.0 (508)
Canister Height in (mm)	11 (279)	11 (279)	11 (278)	11 (279)	11 (279)	11 (279)	11 (279)
Canister Diameter in (mm)	1.65 (41)	1.65 (42)	3.09 (79)	3.09 (78)	2.81 (72)	4.00 (101)	2.81 (72)
Weight Empty lb. (kg)	14.5 (6.6)	22.7 (10.3)	30.0 (13.6)	33.0 (15.0)	34.0 (15.4)	40.0 (18.1)	40.0 (18.1)
Weight Charged vapor lb. (kg)	18.5 (8.4)	29.7 (13.5)	40.0 (18.2)	47.0 (21.3)	48.5 (22.0)	53.5 (24.3)	53.5 (24.3)
Weight Full liquid lb. (kg)	32 (14.5)	56 (25.4)	68 (30.8)	89 (40.4)	92 (41.7)	117 (53.1)	117 (53.1)

### TWO Year Parts Warranty • THREE Year Vacuum Warranty

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