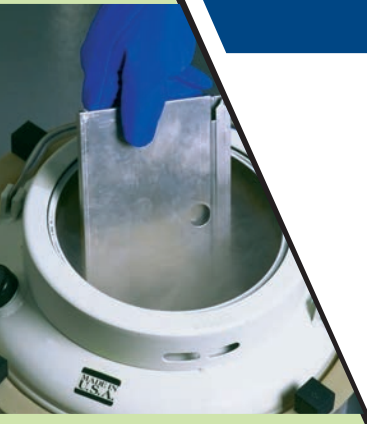


# MVE Doble Series

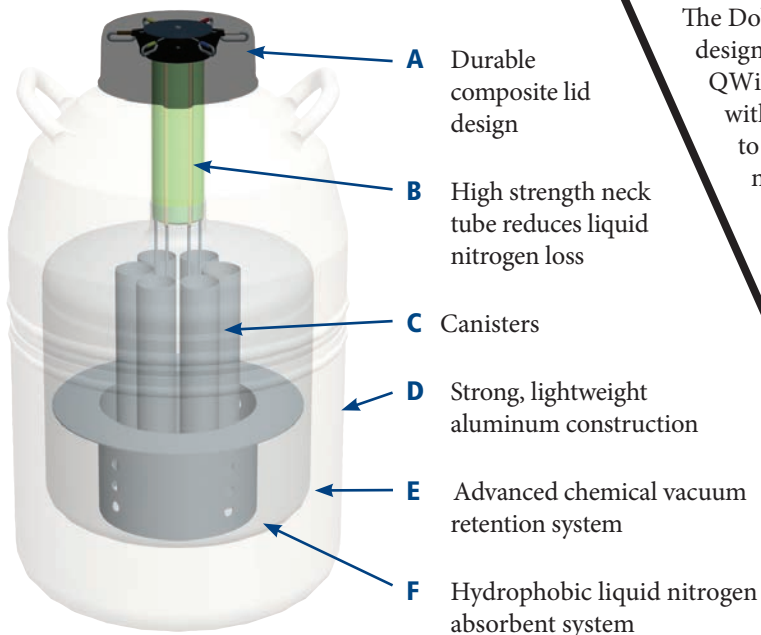


## Features include

- MVE Protective Shipping Containers are recommended
- Protective shipping containers ensure upright shipping
- Liquid and vapor storage options
- Low liquid nitrogen consumption
- Convenient lightweight package
- **CHARGES IN TWO HOURS\***

**ADVANCED** QWick Charge Technology **Charges in 2 hours**  
Pat 20888994 Rev C

## Tank Features



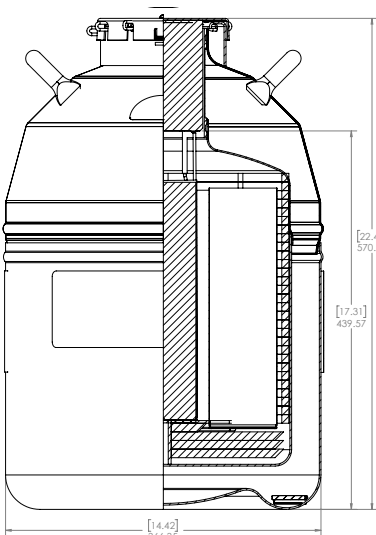
## Featuring Advanced QWick™ Charge Technology

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. \*New/warm tanks still need to be filled with LN<sub>2</sub> and allowed to sit 24 hours to achieve maximum hold time. When a tank is already cold, the Advanced QWick Charge technology will apply, providing the capacity for same-day vapor shipping. 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 21 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.

[www.mvebio.com](http://www.mvebio.com)  
**844-MVE-CRYO**

	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 (Hold Time overrides NER specifications)</b>							
LN <sub>2</sub> Capacity w/o Inventory L est.	10.0	18.5	20.0	28.0	32.0	46.0	46.0
Vapor Capacity L	3.1	4.2	5.5	8.4	7.9	6.0	6.0
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	110	74	72
Working Duration days for vapor	17	21	18	21	21	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)	25.5 (647)	22 (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 (279)	11 (279)	11 (279)	11 (279)	11 (279)
Canister Diameter in (mm)	1.65 (42)	1.65 (42)	3.09 (79)	3.09 (79)	2.81 (72)	4.00 (101)	2.81 (72)
Weight Empty lb. (kg)	14.5 (6.6)	23 (10.4)	23.8 (10.7)	33 (15.0)	34.5 (15.6)	41 (18.5)	41 (18.5)
Weight Charged vapor lb. (kg)	19.5 (8.8)	30.3 (13.7)	35 (15.8)	47 (21.3)	47.9 (21.7)	54.6 (24.7)	54.6 (24.7)
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)
Protective Shipping Container Part No.	20750519	11912460	11912460	11930861	20863878	14035731	14035731

**TWO Year Parts Warranty • THREE Year Vacuum Warranty** | Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU.



**FEATURES**

- LOCKABLE CORK AND COVER
- CHARGES IN 2 HOURS\*
- OPTIONAL CENTER CANISTER AND INSERT TO EXTEND HOLD TIME

**PERFORMANCE**

- ABSORBED LN<sub>2</sub> CAPACITY ----- 5.5 LITERS
- STATIC EVAPORATION RATE (EXCLUDING INVENTORY) ----- 0.35 L/DAY (HOLD TIME OVERRIDES NER SPECIFICATION)
- STATIC HOLD TIME\*\* (EXCLUDING INVENTORY) ----- 18 DAYS

**UNIT DIMENSIONS**

- NECK OPENING inch(mm) ----- 3.8 (96.7)
- OVERALL HEIGHT (TOP OF LID) inch(mm) ----- 22.0 (559)
- OUTSIDE DIAMETER inch(mm) ----- 14.5 (368)
- EMPTY WEIGHT LBS(kg) ----- 23.3 (10.5) (+/- 5% TYPICAL)
- CHARGED WEIGHT (EXCLUDING INVENTORY)\*\*\* LBS(kg) ----- 33.0 (14.9) (+/- 5% TYPICAL)
- FULL WEIGHT (EXCLUDING INVENTORY) LBS(kg) ----- 68.0 (30.8) (+/- 5% TYPICAL)

**CANISTERS**

- (QUANTITY) SIZE ----- (6) 11"X3.2"OD (279mmX81mmOD)
- (1) 11"X3.2"OD (279mmX81mmOD)

**PLASTIC SHIPPING CONTAINER**

- PPSC ----- PN 11912460

MDD 93/42/EEC CERTIFIED



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