

Contenitori criogenici Cryogenic containers

Serie Doble per trasporto e stoccaggio Doble Series

I contenitori DOBLE sono gli unici della gamma MVE a poter espletare la doppia funzione di contenitori per il trasporto (VAPOR SHIPPER) e contenitori per lo stoccaggio.





CE

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 fewer than 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

Normal Working Duration days for liquid 37 116 50 100 74 72 Normal Working Duration days for vapor 17 21 24 20 21 21 Weight Empty lb. (kg) 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 liquid lb. (kg) 32 (14.5) 56 (25.4) 89 (40.4) 92 (41.7) 117 (53.1) 117 (53.2) Cabosil lb. (kg) 1.0 (0.45) 1.0 (0.45) 3.5 (1.58) 2.0 (0.9) 3.4 (1.5) 3.4 (1.5) Number of Canisters 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 10.0 18.5 28.0 32.0 46.0 46.0 Vapor Capacity L							
Normal Working Duration days for vapor 17 21 24 20 21 21 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 Weight Charged vapor <i>lb. (kg)</i> 18.5 (8.4) 26.0 (11.8) 47.0 (21.3) 45.5 (20.6) 55.0 (24.9) 55.0 (24 Weight Full <i>liquid lb. (kg)</i> 32 (14.5) 56 (25.4) 89 (40.4) 92 (41.7) 117 (53.1) 117 (53 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) Maximum Storage Capacity Number of Canisters 6 6 6 6 10 No. of 1/2 cc Straws 10/cane 660 660 2,400 2,100 45.50 3.500 Vial Capacity 210 210 810 630 1,320 1,050 Performance 10.0 18.5 28.0 32.0 46.0 46.0 Uiquid Nitrogen Capacity L 3.1 2.8 8.4 6.7 8.4 9.6	Doble Series	Doble 11	Doble 20	Doble 28	Doble 34	Doble 47	Doble 47-10
Weight Empty <i>Ib. (kg)</i> 14.5 (6.6) 22.0 (10.0) 33.0 (15.4) 41.0 (18.6) 41.0 (18 Weight Charged vapor <i>Ib. (kg)</i> 18.5 (8.4) 26.0 (11.8) 47.0 (21.3) 45.5 (20.6) 55.0 (24.9) 55.0 (24 Weight Full <i>liquid Ib. (kg)</i> 32 (14.5) 56 (25.4) 89 (40.4) 92 (41.7) 117 (53.1) 117 (53 Cabosil <i>Ib. (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) Maximum Storage Capacity 1.0 (0.45) 1.0 (0.45) 3.5 (1.58) 2.0 (0.9) 3.4 (1.5) 3.4 (1.5) No. of 1/2 cc Straws <i>10/cane</i> 6 6 6 6 10 0.051 0.051 0.20 46.0 46.0 Vial Capacity 210 210 810 630 1.320 1.050 Performance 10.0 18.5 28.0 32.0 46.0 46.0 Vapor Capacity L 3.1 2.8 8.4 6.7 8.4 9.6 Static Evaporation Rate L/day 0.17	Normal Working Duration days for liquid	37	116	50	100	74	72
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) 51.0 (17.7) 53.4 (1.5) Maximum Storage Capacity 10.0 (0.45) 1.0 (0.45) 3.5 (1.58) 2.0 (0.9) 3.4 (1.5) 3.4 (1.5) Number of Canisters 6 6 6 6 6 6 10 3.5 (1.58) 2.0 (0.9) 3.4 (1.5) 3.4 (1.5) Number of C	Normal Working Duration days for vapor	17	21	24	20	21	21
Weight Full liquid lb. (kg) 32 (14.5) 56 (25.4) 89 (40.4) 92 (41.7) 117 (53.1) 117 (53.2) Cabosil lb. (kg) 1.0 (0.45) 1.0 (0.45) 3.5 (1.58) 2.0 (0.9) 3.4 (1.5) 3.4 (1.5) 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 Uiquid Nitrogen Capacity L 10.0 18.5 28.0 32.0 46.0 46.0 Vapor Capacity L 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 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)	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)
Cabosil Ib. (kg) 1.0 (0.45) 1.0 (0.45) 3.5 (1.58) 2.0 (0.9) 3.4 (1.5) 3.4 (1.5) 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 L 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 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) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673)	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)
Maximum Storage Capacity 6 6 6 6 6 6 6 10 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 L 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 Value 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) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673)	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)
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 10.0 18.5 28.0 32.0 46.0 46.0 Vapor Capacity L 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 21.8 (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)	Cabosil Ib. (kg)	1.0 (0.45)	1.0 (0.45)	3.5 (1.58)	2.0 (0.9)	3.4 (1.5)	3.4 (1.5)
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 10.0 18.5 28.0 32.0 46.0 46.0 Vapor Capacity L 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 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) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (674) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508)	Maximum Storage Capacity						
Noise in Leonaute Foreance 210 210 210 810 630 1,320 1,050 Performance Liquid Nitrogen Capacity L 10.0 18.5 28.0 32.0 46.0 46.0 Vapor Capacity L 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 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 (674) 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) 11 (279)	Number of Canisters	6	6	6	6	6	10
Performance 10.0 18.5 28.0 32.0 46.0 46.0 Vapor Capacity L 10.0 18.5 28.0 32.0 46.0 46.0 Vapor Capacity L 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 Veck 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) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508	No. of 1/2 cc Straws 10/cane	660	660	2,400	2,100	4,500	3,500
Liquid Nitrogen Capacity L 10.0 18.5 28.0 32.0 46.0 46.0 Vapor Capacity L 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 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) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (673) 26.5 (674) 20.0 (508)	Vial Capacity	210	210	810	630	1,320	1,050
Vapor Capacity L 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) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508) 20.0 (508)	Performance						
Static Evaporation Rate L/day 0.17 0.10 0.35 0.20 0.40 0.40 Unit Dimensions 2.18 (55) 2.18 (55) 3.81 (97) 3.50 (89) 5.00 (127) 5.00 (127) Neck Opening 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) <t< th=""><th>Liquid Nitrogen Capacity L</th><th>10.0</th><th>18.5</th><th>28.0</th><th>32.0</th><th>46.0</th><th>46.0</th></t<>	Liquid Nitrogen Capacity L	10.0	18.5	28.0	32.0	46.0	46.0
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) 11 (279)	Vapor Capacity L	3.1	2.8	8.4	6.7	8.4	9.6
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) 26.5 (673) 26.5 (673) 26.0 (508) 20.0 (508)	Static Evaporation Rate L/day	0.17	0.10	0.35	0.20	0.40	0.40
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)	Unit Dimensions						
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) <th>Neck Opening in (mm)</th> <th>2.18 (55)</th> <th>2.18 (55)</th> <th>3.81 (97)</th> <th>3.50 (89)</th> <th>5.00 (127)</th> <th>5.00 (127)</th>	Neck Opening in (mm)	2.18 (55)	2.18 (55)	3.81 (97)	3.50 (89)	5.00 (127)	5.00 (127)
Canister Height in (mm) 11 (279) 11 (27	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 Diameter in (mm) 1.65 (41) 1.65 (42) 3.09 (78) 2.81 (72) 4.00 (101) 2.81 (7	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)



V.le della Cooperazione 38-40 45100 Borsea (Ro) Tel.+ 39 0425 474533 Fax+39 0425 474918 info@elettrofor.it www.elettrofor.it