



CRYOGENIC PRODUCTS & SERVICES

Design

Installation

Service

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THAMES CRYOGENICS LTD

Total Cryogenic Solutions



MVE Doble Series



Key Features

- Liquid and vapour storage options
- Low liquid nitrogen consumption
- Convenient lightweight package
- Doble QWick Series charges in less than two hours
- Hydrophobic liquid nitrogen absorbent system

THREE year warranty.

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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.

Doble QWick Series	10/660	20/660	17/2400	20/2100	14/4500	14/3500
Normal Working Duration <i>days for liquid</i>	37	116	50	100	74	72
Normal Working Duration <i>days for vapor</i>	10	20	17	20	14	14

Doble Series	Doble 11	Doble 20	Doble 28	Doble 34	Doble 47	Doble 47-10
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	21

Maximum Storage Capacity

Number of Canisters	6	6	6	6	6	10
No. of 1/2 cc Straws <i>10/cane</i>	660	660	2.400	2.100	4.500	3.500
Vial Capacity	210	210	810	630	1.320	1.050

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

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 (11,4)	34,0 (15,4)	39,2 (17,8)	47,0 (21,3)	48,0 (21,8)
Weight Charged <i>vapor lb. (kg)</i>	22,5 (10,2)	30,2 (13,7)	49,0 (22,2)	51,0 (23,1)	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 (0,45)	1,0 (0,45)	3,5 (1,58)	2,0 (0,9)	2,5 (1,2)	3,4 (1,6)