

LIQUID NITROGEN CONTAINERS

> DRY-SHIPPER

"DRY-SHIPPER" are containers used for the safe transportation of biological samples at cryogenic temperatures and are ideal for use in a variety of sectors such as animal insemination and scientific research. They are especially suitable for air transportation.

"DRY-SHIPPER" (like other containers) consist of one inner and one outer aluminium container with a neck made from fibre-glass. Insulation between the two containers is obtained from a large quantity of reflective, layered aluminium plates. **"DRY SHIPPERS"** also contain an absorbent material which soaks up liquid nitrogen and releases it in gaseous form. This sponge-like material absorbs and conserves liquid nitrogen so that even if the container is turned upside down during transportation, no spillages are incurred. The container also includes a canister of variable dimensions depending on container capacity. All the above characteristics guarantee a product that is both safe and reliable.

Accessori



IT IS NECESSARY TO FOLLOW CERTAIN PROCEDURES WHEN FILLING THE DRY SHIPPER CONTAINER:

- fill the container to the top of the neck when using it for the first time
- fill the container for the second time 12 hours after filling it initially
- fill the container for the third time again after 12 hours

Following this procedure ensures that the material inside the container has correctly absorbed the liquid nitrogen. Before placing the canister inside the container, dispose of any excess liquid nitrogen.

> CONTAINERS



TECHNICAL SPECIFICATIONS

> TRANSPORT

TRANSPORT

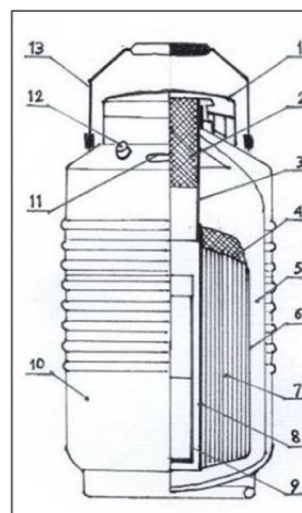


ydh 3-50

ydh 8-80

Consumption			
Daily evaporation rate (L/d)		0,14	0,22
Static Holding Time (d)		25	16
STORAGE CAPACITY			
In canister with plastic goblet			
0.50 ml loose straws	2 lev	200	800
0.25 ml loose straws	2 lev	400	1600
0.50 ml straws divided into small goblets	2 lev	120	455
0.25 ml straws divided into small goblets	2 lev	270	1.026
Straws in sticks			
8 sticks containing 12 straws (each straw holds 0.50 ml)		96	
8 sticks containing 24 straws (each straw holds 0.25 ml)		192	
27 sticks containing 12 straws (each straw holds 0.50 ml)			324
27 sticks containing 12 straws (each straw holds 0.25 ml)			648
Storage capacity of cryotubes in canisters			
1.2/2.0ml		20/85	20/85
Measurements container			
Capacity (L)		3,5	8
Neck diameter (mm)		50	80
Height (mm)		535	610
Outer diameter (mm)		224	303
Empty weight		5,2	8,9
Full weight		8,50	17

> TECHNICAL DIAGRAM



- 1 - LID
- 2 - STOPPER
- 3 - NECK
- 4 - ABSORBENT MATERIAL
- 5 - MULTILAYER INSULATION
- 6 - INNER CONTAINER
- 7 - LIQUID NITROGEN ABSORBENT MATERIAL
- 8 - ABSORBENT MATERIAL SUPPORT
- 9 - CANISTER
- 10 - OUTER CONTAINER
- 11 - IDENTIFICATION NUMBER
- 12 - SAFETY VALVE
- 13 - HANDLE

GLOSSARY

yds 00-00 - yds refers to litres & neck diameter- e.g. yds 3-50, 3 refers to capacity (L), 50 to neck diameter (mm)

Static Holding Time - Static Holding Time refers to the level of nitrogen inside the container given optimal conditions

Working Holding Time - Working Holding Time refers to the average duration of liquid nitrogen inside the container during working conditions

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