

LN₂ Biological Dewar (Round Canister Series)

Scope of Application

Low LN₂ consumption and light weight to provide Long-term and secure sample storage, widely used in laboratories, hospitals, pharmaceutical factories, CDC, clinics, etc.

■ Key Features



Multi Capacity Option

14 models available for 0.5ml Straws (90 - 9048).



Low LN₂ Consumption

Narrow necks with less evaporation for long time storage.



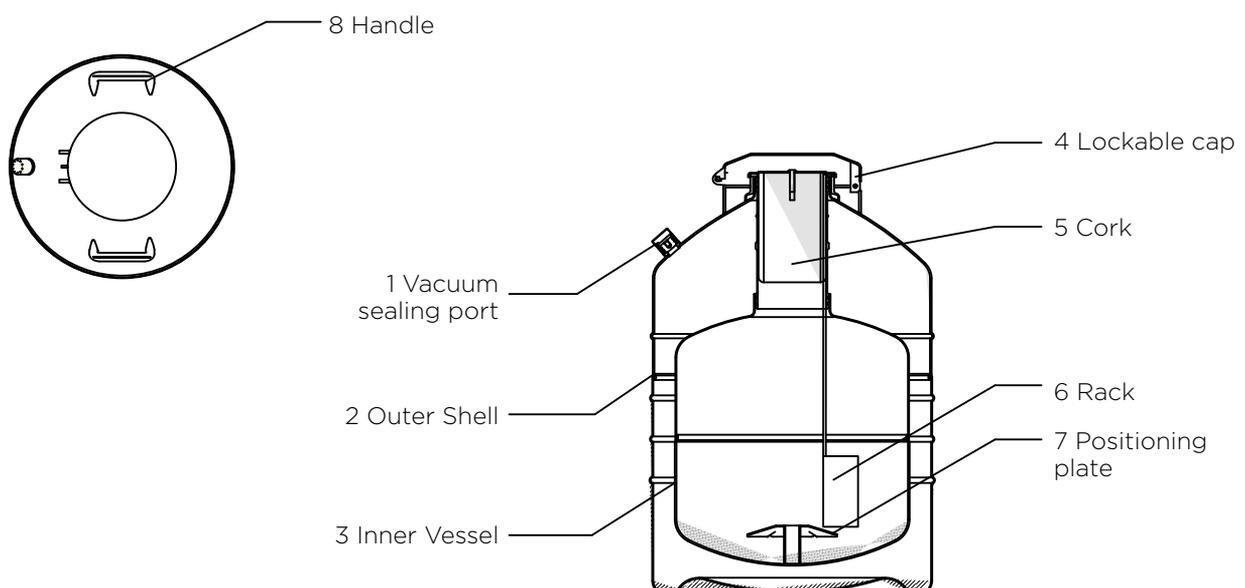
Advanced Vacuum Technology

Better temperature insulation to protect storage samples.



Durable Aluminium Alloy

Made of aviation aluminium, has strong and lightweight aluminium structure



Technical Parameters



Model	YDS-1.5-30	YDS-2-30	YDS-2-35	YDS-3	YDS-6	YDS-10	YDS-10-80
Maximum Storage Volume							
No. Of Canisters	3	3	3	6	6	6	6
Canister Diameter (mm)	19	19	25	38	38	38	63
Canister Height (mm)	120	120	120	120	120	120	120
No. of Straws (0.25ml)	204	204	330	1788	1788	1788	5022
No. of Straws (0.5ml)	90	90	165	792	792	792	2244
Performance							
Volume of LN ₂ (L)	1.5	2	2	3.15	6	10	10
Static Evaporation Rate*(L/D)	0.07	0.07	0.08	0.12	0.12	0.12	0.21
Static Holding Time**(Day)	21	28	24	26	52	86	48
Dimensions							
Neck Opening (mm)	30	30	35	50	50	50	80
Overall Height (mm)	398	410	420	441	488	566	557
Overall Diameter (mm)	178	224	195	224	300	300	300
Empty Weight (kg)	2.4	2.6	2.6	3.3	300	5.7	6.3
Full weight (kg)	2.5	2.7	2.8	3.7	5.4	6.1	7.0
Shipping Weight (kg)	2.5	2.7	2.8	3.7	5.4	6.1	7.0



Model	YDS-13	YDS-15	YDS-20	YDS-30	YDS-47-127	YDS-50B	YDS-50B-125
Maximum Storage Volume							
No. of Canisters	6	6	6	6	10	6	6
Canister Diameter (mm)	38	38	38	38	72	38	97
Canister Height (mm)	120/276	120	120/276	120/276	120/276	120/276	120/276
No. of Straws (0.25ml)	1788/2832	1788	1788/2832	1788/2832	10600/16440	1788/2832	10640/20760
No. of Straws (0.5ml)	792/1284	792	792/1284	792/1284	5000/8200	792/1284	5124/9048
Performance							
Volume of LN ₂ (L)	13	16	20	31.5	47	50	50
Static Evaporation Rate*(L/D)	0.12	0.11	0.12	0.12	0.36	0.24	0.36
Static Holding Time**(Day)	109	134	168	254	131	209	139
Dimensions							
Neck Opening (mm)	50	50	50	50	127	50	125
Overall Height (mm)	630	618	688	681	734	777	835
Overall Diameter (mm)	300	396	396	451	508	508	508
Empty Weight (kg)	6.3	10.8	12.2	15.5	19.1	20.2	21.3
Full weight (kg)	7.0	11.5	12.9	16.3	22.3	20.9	23.8
Shipping Weight (kg)	7.0	11.5	12.9	16.3	22.3	20.9	23.8

* ** Static evaporation and static holding time are theoretical values. Actual evaporation and holding time are affected by usage, atmospheric conditions and manufacturing tolerances.

Product List

YDS Series	Accessory	Model	Description	Notes
YDS-1.5-30	Canister	TT2-30	Φ19,120mm single tier canister, No goblet	Standard
	Cork (30)	GS-30	Suitable for container with 30mm neck opening	
	Lockable cap	SG-30		
YDS-2-30	Canister	TT2-30	Φ19,120mm single tier canister, No goblet	Standard
	Cork (30)	GS-30	Suitable for container with 30mm neck opening	
	Lockable cap	SG-30		
YDS-2-35	Canister	TT2-35	Φ25,120mm single tier canister, No goblet	Standard
	Cork (30)	GS-35	Suitable for container with 35mm neck opening	
	Lockable cap	SG-35		
YDS-3	Canister	TT3-50	Φ38, 120mm single tier canister, No goblet	Standard
	Cork (50)	GS-50	Suitable for container with 50mm neck opening	
	Lockable cap	SG-50		
YDS-6	Canister	TT6-50	Φ38,120mm single tier canister, No goblet	Standard
	Cork (50)	GS-50-180	Suitable for container with 50mm neck opening	
	Lockable cap	SG-50		
YDS-10	Canister	TT10-50	Φ38,120mm single tier canister, No goblet	Standard
	Cork (50)	GS-50	Suitable for container with 50mm neck opening	
	Lockable cap	SG-50		
YDS-10-80	Canister	TT10-80	Φ63,120mm single tier canister, No goblet	Standard
	Cork (80)	GS-80	Suitable for container with 80mm neck opening	
	Lockable cap	SG-80		

Product List

YDS Series	Accessory	Model	Description	Notes
YDS-13	Canister	TT13-50	Φ38,120mm double-tier canister, 2 goblets included	Standard
	Cork (50)	GS-50	Suitable for container with 50mm neck opening	
	Lockable cap	SG-50		
YDS-15	Canister	TT15-50	Φ38,120mm single tier canister, No goblet	Standard
	Cork (50)	GS-50	Suitable for container with 50mm neck opening	
	Lockable cap	SG-50		
YDS-20	Canister	TTS30-50	Φ38,276mm double-tier canister, 2 goblets included	Standard
	Cork (50)	GS-50	Suitable for container with 50mm neck opening	
	Lockable cap	SG-50		
YDS-30	Canister	TTS30-50	Φ38,276mm double-tier canister, 2 goblets included	Standard
	Cork (50)	GS-50	Suitable for container with 50mm neck opening	
	Lockable cap	SG-50		
	Roller base	TC-35	Suitable for tanks with diameter less than Φ465. Can be used for 30L and 35L tank, equipped with 5 universal wheels.	Optional
YDS-47-127	Canister	TTS50-125	Φ72,276mm double-tier canister, 2 goblets included	Standard
	Cork (50)	GS-125	Suitable for container with 125mm and 127mm neck opening	
	Lockable cap	SG-125		
	Roller base	TC-50	Suitable for tanks with diameter less than Φ465. Can be used for 47L and 50L tank, equipped with 5 universal wheels.	Optional
YDS-50B	Canister	TTS50-50	Φ38,276mm double-tier canister, 2 goblets included	Standard
	Cork (50)	GS-50	Suitable for container with 50mm neck opening	
	Lockable cap	SG-50		
	Roller base	TC-50	Suitable for tanks with diameter less than Φ465. Can be used for 47L and 50L tank, equipped with 5 universal wheels.	Optional
YDS-50B-125	Canister	TTS50-125	Φ97,276mm double-tier canister, 2 goblets included	Standard
	Cork (50)	GS-125	Suitable for container with 125mm and 127mm neck opening	
	Lockable cap	SG-125		
	Roller base	TC-50	Suitable for tanks with diameter less than Φ465. Can be used for 47L and 50L tank, equipped with 5 universal wheels.	Optional