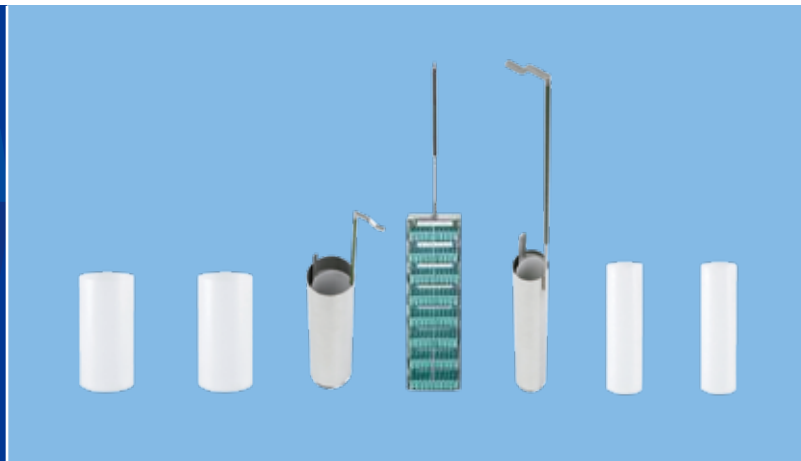




Incubate the Future with You

ASTECLN₂ Container Series

The ASTEC LN₂ Tank Series stands out with its advanced insulation technology, designed to deliver maximum efficiency and reliability. By adopting high performance aluminum foil with exceptional reflective properties as a multilayer insulation, the tanks dramatically reduce heat radiation. Combined with insulation materials engineered for low thermal conductivity and minimal gas emission, this unique design ensures superior temperature stability, extended LN₂ retention, and long-term sample safety.



Key Features of New ASTEC LN₂ Container Series

- ▶ Astec's new LN₂ tank combines innovative design and user-friendliness to reliably protect your valuable samples.
- ▶ Superior insulation performance and robust construction ensure stable, long-term storage.
- ▶ Featuring a lightweight yet high-capacity design, it delivers uncompromising quality.



ASTEC LN₂ Container Series

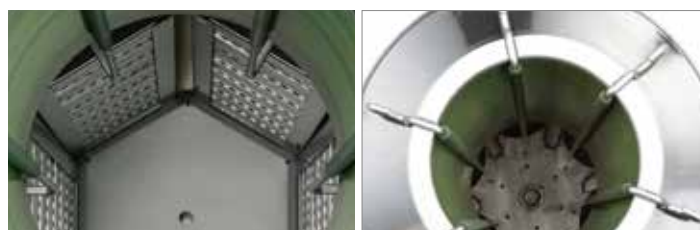
Product introduction

- ▶ The main body is made of aluminum alloy plate, which is light in weight, high in strength and corrosion resistant.
- ▶ The multi-layer heat insulator uses aluminum foil with excellent reflective performance as reflective screen and uses materials with small thermal conductivity and low outgassing rate as the heat insulating material.
- ▶ The vacuum layer is in a high vacuum state, and an adsorbent with a large adsorption capacity is used to ensure the long-term stability and reliability of the container performance.
- ▶ The aluminum alloy liquid nitrogen container is mainly composed of an outer shell, and inner tank, a neck tube, a multi-layer insulation body, a bucket, etc.
- ▶ The neck tube is made of glass fiber reinforced plastic, which has the characteristics of high mechanical strength and low thermal conductivity.



PRODUCT FEATURE

- Low LN₂ consumption
- High strength, low weight aluminum construction
- Convenient and light packaging
- Large capacity



ASTEC LN₂ Container Series | Specification

※1 Evaporation rate and static hold time are values in a static state (without a canister)

Models	AR Series(Racks)				AS Series(Dewer)		
	AR-35-125-6	AR-95-216-6	AR-145-216-6	AR-175-216-6	AS-10-50	AS-20-50	AS-30-50
Diameter (mm)	451	678	678	678	300	396	451
Height (mm)	802	846	1040	1093	566	699	686
Necktube Dimensions (mm)	125	216	216	216	50	50	50
LN ₂ Capacity(L)	35.5	95.0	145.0	175.0	10	20	30
Evaporation Rate (L/Day) ※1	0.36	0.81	0.85	0.87	0.12	0.12	0.124
Static Hold Time (Days) ※1	99	117	171	201	86	166	242
Empty Weight (kg)	24.1	54	68	73	7	13	17
Charged Weight(kg)	50	130	185	214	15	29	41
Number of Racks	6	6	6	6	-	-	-
Racks (WxDxH:mm)	81×85×56	139×141×56	139×141×56	139×141×56	-	-	-
Number of Vials (1.2/2.0ml)	750	3000	4800	6000	-	-	-

Models	AD Series (Dry Shipper)	AC Series (Canister)				
	AD-4-70-1	AC-35-90-6	AC-47-127-10	AC-47-127-6	AC-10-50-6	AC-20-50-6
Diameter (mm)	224	451	508	508	300	396
Height (mm)	500	754	775	775	558	690
Necktube Dimensions (mm)	70	90	127	127	50	50
LN ₂ Capacity(L)	4	35	47	47	10	20
Evaporation Rate (L/Day) ※1	0.19	0.25	0.36	0.36	0.116	0.12
Static Hold Time (Days) ※1	9	140	131	131	86	168
Empty Weight (kg)	6.5	20	24	23	7	13
Charged Weight(kg)	9.7	48	62	61	15	29
Number of Barrel	1	-	-	-	-	-
Number of Canisters	-	6	10	6	6	6
Canister (φD x H:mm)	67×276	70×276	72×276	97×276	38×120	38×276
Number of Straws (0.5cc)	664	4728	7800	9360	792	1200
Number of Vials (1.2/2.0ml)	84	720	1200	1332	90	180