



# Yamato Freeze Dryer

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DC 401

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# Freeze Dryer



DC401-115V DC401-220V

Trap cooling temp. -45°C

Internal capacity 4L

Dehumidify amount 0.6L



Chamber, manifold, mounting flask, flask cap and glass container sold separately

- Contaminant free system
- Designed with automatic safety vacuum venting system which prevents oil backflow when turn off power supply or power failure
- Ice can be refrozen and removed smoothly from the vessel by Hot Gas Bypass System
- Equipped with Pirani Vacuum Gauge
- Safety Valve is linked with Service Receptacle for Vacuum Pump
- Environment friendly coolant used for refrigeration
- Highly mobile on wheels

## Specifications

Model	DC401-115V / DC401-220V
Trap cooling temperature	-45°C
Time to reach minimum temperature	50 min. (20°C to -45°C)
Dehumidify amount	0.6L
Temperature sensor	N/A
Temperature display	N/A
Refrigerator	Air Cooling Type, 400W
Refrigerator, coolant	R404A, Coolant amount: 300g ±5g
Compound gauge	N/A
Bath Shape, material	Cylinder, Stainless steel
Drain	Vacuum Hose with Stopper
Vacuum gauge	Pirani Vacuum Measure
Trap defrost	Defrosted by Hot Gas
Exhaust port (vacuum pump connection)	Dia. 17mm
Ambient temperature range	5~30°C
Safety device	Electric Leakage Breaker with Over Current Protection, Refrigerator Overload Relay, Valve for Back Flow Prevention
Trap dimensions	Dia. 153 x H235mm
External dimensions	W300 x D450 x H920mm
Internal capacity	~4L
Power source 50/60 Hz	AC115V 12A AC220V 7A
Weight	~60kg
Included accessories	Vacuum silicone grease, vacuum hose

## Vacuum Pump



GLD137CC115DCRKIT  
GLD137CC220DCRKIT

## Specifications

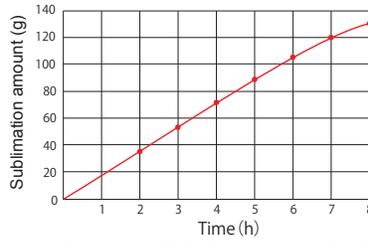
Model	Unit	GLD-137CC	
		50Hz	60Hz
Actual pumping speed	L/min	135	162
Ultimate pressure	Pa	G.V. Closed: 0.67 G.V. Open: 6.7	
Power source 50/60 Hz		115V / 220V	
Weight	kg	27.0	
Overall dimensions	mm	W170 x L488 x H250	

## Control Panel



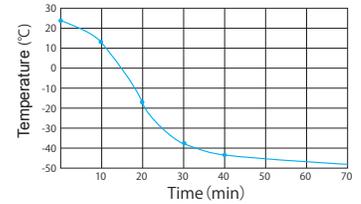
Pirani Vacuum Gauge and Control Panel

## Sublimation Data



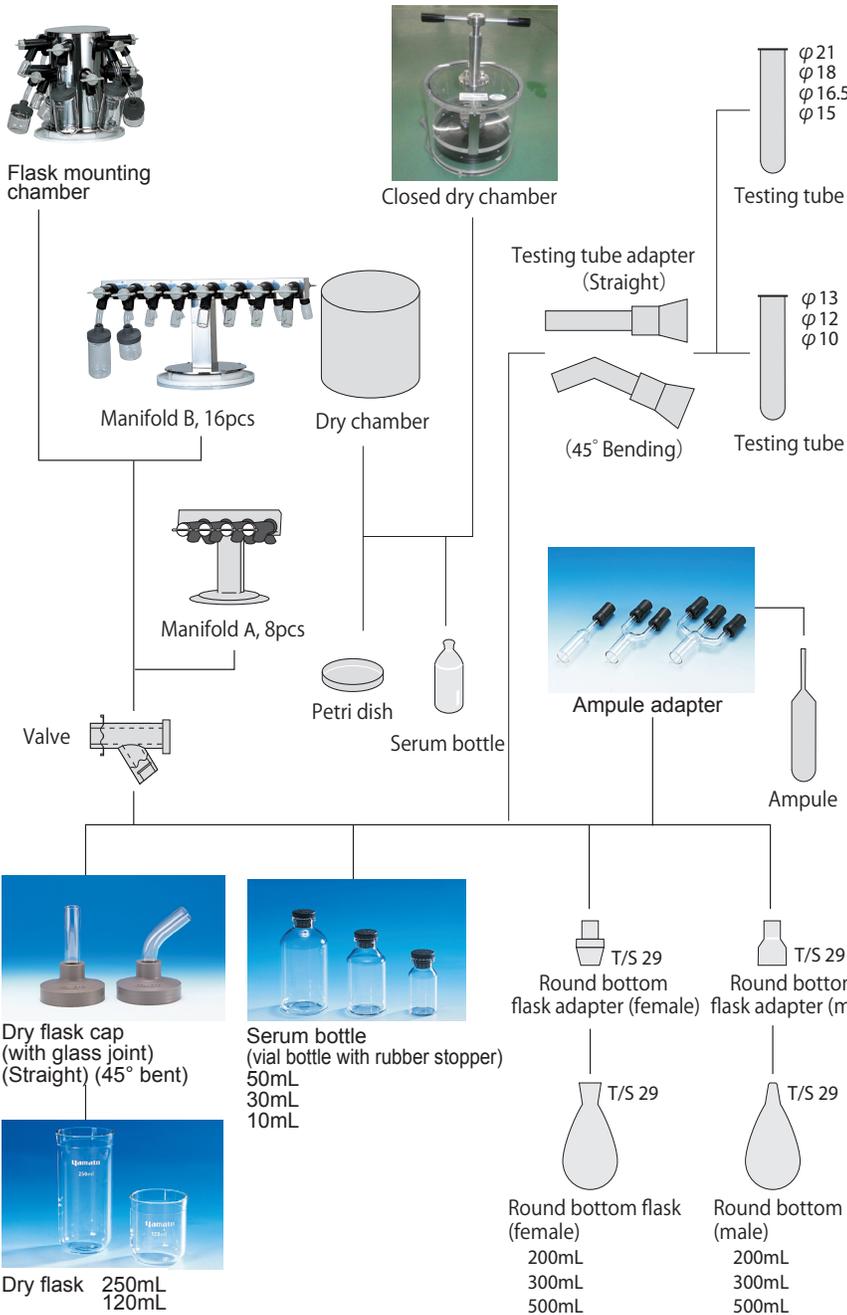
Room temp: 25°C Power source: AC115V 50Hz

## Cooling Curve



Room temp: 25°C Power source: AC115V 50Hz

## Accessories



Product code	212560	212561	212562	212563	212564
Product name	Flask mounting chamber	Manifold A	Manifold B	Dry chamber	Closed dry chamber
Shelf number	--			1	
Stopper	I.D. 18.5mm				
Stopper Pitch	96mm	80mm		60mm Dish x 7	
Port number	12	8	16	Temp. adjustment 30°C±2°C	
Dimension	φ195xH303	W304x D60xH263	W624x D60xH263	φ252xH240	φ252xH425

Product name	Product code
Valve	212565
Dry Flask	120mL, 5pcs 212820 250mL, 5pcs 212821
Dry Flask Cap (with glass joint)	5pcs. (Straight) 212570 5pcs. (45°C Bent) 212571
Serum Bottle (vial bottle with rubber stopper)	50mL, 10pcs 212814 30mL, 10pcs 212815 10mL, 10pcs 212816
Ampule Adapter	Single, 5pcs 212572 Double, 5pcs 212573 Triple, 5pcs 212574
Testing Tube Adapter (with glass joint)	Straight 212590 45° bend 212591
Round Bottom Flask (Male)	200mL T/S 29 212594 300mL T/S 29 212595 500mL T/S 29 212596
Round Bottom Flask Adapter (Male)	T/S 29 212597
Round Bottom Flask (Female)	200mL T/S29 212566 300mL T/S29 212567 500mL T/S29 212568
Round Bottom Flask Adapter (Female)	T/S 29 212569
Micro Tube Holder	1.5mL, 16 pcs 212580
Glass Joint	Straight 212598 45° bend 212599
Caster stop holder	4pcs set 281440