Freeze Dryer



Flask mounting chamber, manifold, flask cap and glass container are optional for both DC401/801

- A safety mechanism that automatically leaks the vacuum path when the power is turned off or the power goes out prevents the backflow of vacuum oil.
- Ice can be refrozen and removed smoothly from the vessel by Hot Gas Bypass System
- The Pirani vacuum gauge enables high-precision freeze drying.
- A service outlet for the vacuum pump linked to the safety valve is provided.
- The DC801 model uses a non-fluorocarbon refrigerant.

Specifications

Product code	212537 212538			
Model	DC401	DC801		
Trap cooling temperature	-45°C	-85°C		
Dehumidify amount	0.6L	1.0L		
Ambient temperature	5~30°C			
Temperature sensor		Platinum resistance temperature detector Pt100Ω		
Temperature display		7 segment LCD *The indicated temp. is the surface temp. of the cooling pipe.		
Refrigerator	Air Cooling Type, 400W	Air Cooling Type, 350W		
Refrigerant / amount	R404A / 225g	R600a and others, mixed coolant		
Compound gauge		High pressure / Low pressure monitor		
Bath Shape, material	Cylindrical, Stainless steel			
Drain	Vacuum Hose with plug			
Vacuum gauge	Pirani vacuum gauge			
Defrosting mechanismt	Hot gas bypass system			
Exhaust port (vacuum pump connection)	Dia.ø17mm			
Service outlet	Max. 6A for vacuum pump / Max. 2A for heater			
Features	Trap defrost : Defrosted by Hot Gas			
Safety device	Electric leakage breaker with over current protection, Refrigerator overload relay, Valve for back flow prevention			
Trap dimensions	Dia.ø153 x H235mm			
External dimensions*1	W300×D450×H720mm	W405×D500×H846mm		
Internal capacity	Approx. 4L			
Power source*2 50/60 Hz	AC115V/AC220V Single phase with step-down transformer			
Weight	Approx. 43kg	Approx. 65kg		
Accessories	Vacuum silicone grease, Vacuum hose, 10A fuse	Vacuum silicone grease, Vacuum hose, 10A fuse, 4 Caster stop holders		

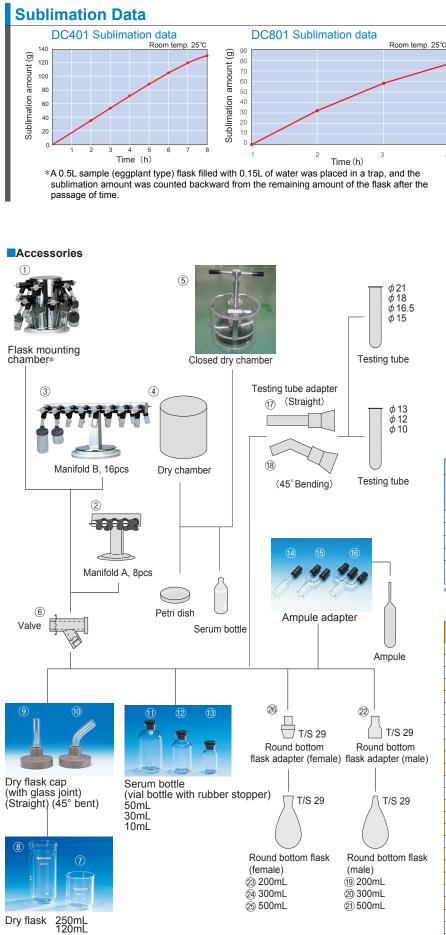
Pre-freezing device is not included
The vacuum pump is not included. Please use a pump with a displacement of 50L/min or more when using it.
*1 Do not include protrusions. *2 Service outlet capacity: DC401:8A, DC801:8A

The length of the power cord is about 2m outside the unit.

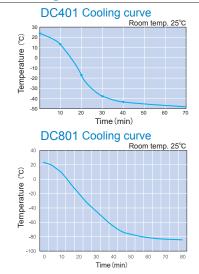
Vacuum pump (Option)



Specifications						
Model	PD53					
Ultimate pressure	0.67Pa					
Actual pumping speed 50/60 Hz	50 / 60 L/min.					



Cooling Curve



Control Panel (DC401)



Pirani Vacuum Gauge and Control Panel

	212561	212562	212563	212564
		③ Manifold B	,	5 Closed dry chamber
			1	
I.D.ø18.5mm				
96mm	80mm		60mm Dish×7	
12	8	16	Temp. adjustment 30°C±2°C	
		W624× D60×H263	φ252×H240	¢252×H425
1	ing chamber I.D.ø18.5r 96mm 12 ¢ 195×H303	Flask mount- ing chamber Manifold I.D.ø18.5mm 96mm 96mm 80mm 12 8 ø 195×H303 W304× D60×H263	Flask mount- ing chamber Manifold A Manifold B	Flask mount- ing chamber Manifold A Manifold B Dry chamber 1 1 1 1 10.018.5mm 96mm 60mm Dis 1 12 8 16 Temp. adjustri 4.055×H2400 W304× W624× 4252×H2400

Flask mounting chambers and manifold A/B are supplied with the same number of valves as the number of ports.

No.	Product name	Product code					
6	Valve	212565					
\bigcirc	Dry Flask	120mL, 5pcs	212820				
8	DIY FIASK	250mL, 5pcs	212821				
9	Dry Flask Cap (with glass joint)	5pcs. (Straight)	212570				
10	Dry Flask Cap (with glass joint)	5pcs. (45°C Bent)	212571				
1	Serum Bottle*1	50mL, 10pcs	212814				
12 13	(vial bottle with rubber plug)	30mL, 10pcs	212815				
(13)	(viai bottie with tubber plug)	10mL, 10pcs	212816				
(14)		Single, 5pcs	212572				
(15)	Ample Adapter	Double, 5pcs	212573				
(16)		Triple, 5pcs	212574				
17	Testing Tube Adapter	Straight	212590				
(18)	(with glass joint)	45° bend	212591				
(19)		200mL T/S 29	212594				
20	Round Bottom Flask (Male)	300mL T/S 29	212595				
21		500mL T/S 29	212596				
22	Round Bottom Flask Adapter (Male)	T/S 29	212597				
23		200mL T/S29	212566				
2 2 2 2 2	Round Bottom Flask (Female)	300mL T/S29	212567				
25		500mL T/S29	212568				
26	Round Bottom Flask Adapter (Female)	T/S 29	212569				
27)	Micro Tube Holder*2	1.5mL, 16pcs	212580				
(28)		Straight	212598				
29	Glass Joint	45° bend	212599				
30	Caster stop holder	4pcs set	281440				
*1 U	¹ Use in combination with a dry chamber.						

*² Use in combination with a drying flask (250mL).