

Vacuum Ovens | Vacuum Standard

DP23C/33C/43C/63C/83C/103C

Automatic
Overheating
PreventerOverheating
PreventerSelf-diagnostic
FunctionKey Lock
FunctionPower Failure
Compensation
Function

Operating temp. range	DP23C/33C: 40~240°C	DP43C/63C/83C/103C: 40~200°C	Operating vacuum range	101~0.1KPa
-----------------------	---------------------	------------------------------	------------------------	------------

Vacuum drying ovens designed for various applications of vacuum drying.



■ Features

- Easy operation, available for fixed temp., program, quick auto stop, auto stop and auto start operations.
- Digital setting through special function menu keys and ▲/▼ keys. 6 modes with a total of 90 segments program controller.
- Overheating protection, deviation correction and key locking through submenu keys.

■ Safety

- Equipped with self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating prevention, SSR short-circuit protection), overheating prevention, overcurrent leakage protection, key lock and other safety functions.
- For safety, a protective panel made of resin is installed on the viewing window.

■ Specifications

Model	DP23C	DP33C	DP43C	DP63C	DP83C	DP103C	
System	Pressure reduction · wall heating						
Performance	Operating temp. range	40~240°C		40~200°C			
	Operating pressure range	101~0.1KPa (760~1Torr)					
	Max. temp. reaching time	Approx. 60 min	Approx. 90 min	Approx. 80 min	Approx. 120 min		
	Temp. fluctuation (GB standard)	±0.5°C (at 240°C)		±0.5°C (at 200°C)			
	Temp. adjusting accuracy (JTM standard)	±1.5°C (at 240°C)		±1.0°C (at 200°C)			
Composition	Interior material	Stainless steel plate					
	Exterior material	Cold rolled steel plate with chemical proofing coating					
	Insulating material	Aluminosilicate cotton					
	Heater material	Mica heating plate					
	Heating method	Heating on the external wall					
	Heating power	0.68kW	1.05kW	2.25kW	3.15kW	3.96kW	14.4kW
	Viewing window	Tempered glass + safety protection resin panel					
Vacuum gauge	Pointer type, -0.1~0MPa						
Vacuum pump installation space (W×D×H mm)	-	-	320×600×540	470×750×540	635×930×540	915×1120×570	
Controllers	Controller	VS6 type programmable controller					
	Temp. control method	3-stage PID					
	Temp. setting method	Digital setting through special function menu keys and ▲/▼ keys					
	Temp. display method	Achieved temp. display: Green 4-digit LED digital display Setting temp. display: Red 4-digit LED digital display					
	Timer	1 min~99 h 59 min and 100~999 h 50 min (including timer waiting function)					
	Operation functions	Fixed temp. operation, auto start, quick auto stop, auto stop, program operation					
	Program mode	Programmable controller with 3 modes (30 segments×1, 15 segments×2, 10 segments×3)					
	Additional functions	Deviation correction, key lock, power failure compensation					
	Heater circuit control	SSR drive					
Sensors	K thermocouple (temp. controller and overheating protection)						
Safety device	Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit), overheating preventer, overcurrent leakage protection, key lock functions						
Specifications	Internal dimensions (W×D×H mm)	200×250×200	300×300×300	450×450×450	600×600×600	800×800×800	1000×1000×1000
	External dimensions (W×D×H mm)	400×410×682	510×460×782	670×690×1523	820×820×1673	1020×1020×1875	1300×1227×2110
	Internal capacity	10L	27L	91L	216L	512L	1000L
	Shelf layer/spacing	3 layers (fixed)/63mm	4 layers (fixed)/71mm	4 layers (fixed)/105mm	4 layers (fixed)/140mm	4 layers (fixed)/190mm	8 layers (fixed)/120mm
	Exhaust vent	External diameter 18mm		KF25 flange		KF40 flange	
	Air intake	External diameter 18mm		Rc3/8		Rc3/8	Rc1/2
	Power supply (50/60Hz) rated current	AC220V 3.5A	AC220V 5A	AC220V 10.5A	AC220V 14.5A	AC220V 18.5A	AC380V 22A
	Weight	Approx. 43kg	Approx. 69kg	Approx. 190kg	Approx. 290kg	Approx. 450kg	Approx. 1000kg
Accessories	Stainless steel punched mesh plate, 2 pieces						Stainless steel punched mesh plate, 4 pieces
Options	Stand	ONS10C		-			
	Others	Shelves, vacuum pump, N ₂ introduction device, data logger, combined warning light (standby/running/fault), external communication function (RS485), temperature output terminal (4~20mA), external alarm output terminal, time-up output terminal, centralized monitoring software					

1 Sterilizers

2 Granulation and Spray Dryers

3 Furnaces

4 Ovens

5 Incubators

6 Plasma Equipment

7 Water Purifiers

8 Baths

9 Water Circulators

10 Rotary Evaporators

11 Stirrers & Shakers

12 Options