

Vacuum Drying Oven (Large Capacity)

Floor type

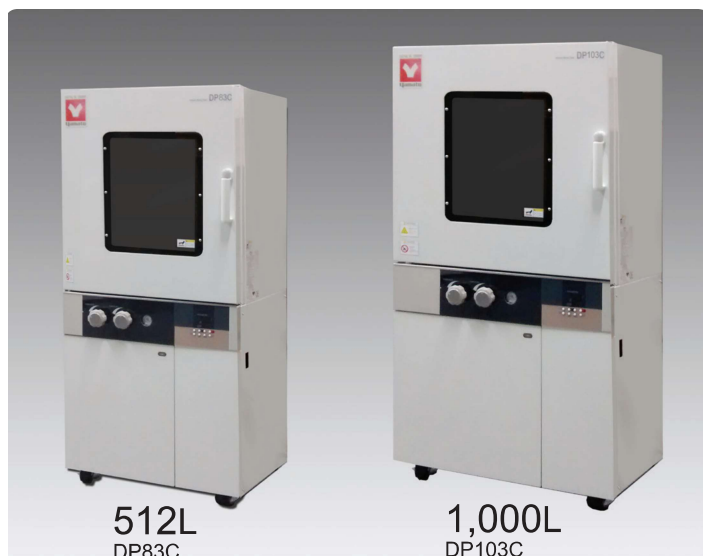
DP83C/103C

Operating temp. range 20~200°C

Operating pressure range 101~0.1kPa

Internal capacity 512L DP83C 1,000L DP103C

Vacuum drying oven for treatment on a large scale and designed for large-size part.



■ Operation and functions

- Vacuum pump can be installed inside the oven.
- Quick connect / disconnect of vacuum pipes for easy pump maintenance.
- Enhanced working efficiency as exhaust system is improved to significantly shorten time to reach vacuum.
- Designed with specialized function menu key and up/down key to set and submenu key to operate overheat protector, deviation correction and key lock.

■ Safety features

- Self-diagnosis circuit (abnormal temp. sensing, heater disconnection, auto overheat prevention, SSR short circuit), overheat protector, electric leakage breaker, key lock, etc.
- Resin protection panel is installed at the observation window.

■ Specifications

Model	DP83C	DP103C
Method	Decompression, chamber wall heating	
Operating temp. range	40°C to 200°C	
Operating pressure range	101 to 0.1 kPa (760 to 1 Torr)	
Temp. control accuracy	±1.0°C (at 200°C)	
Interior material	Stainless steel	
Exterior material	Cold rolled steel plate with chemical proofing coating	
Door	Single swing door	
Heat insulating material	Glass fibre	
Heating method	Decompressed chamber wall direct heating	
Heater power	6.5KW	14.4KW
Observation window	Toughened glass + resin protection panel	
Vacuum gauge	Pointer type, -100~0kPa	
Vacuum pump installation room	Yes	
Temp. control method	3 segments PID	
Temp. setting method	Use specialized function menu key and UP/DOWN key to set	
Temp. display	Measured temp. display: Green 4-digit LED digital display Setting temp. display: Red 4-digit LED digital display	
Timer	1min-99 hr 59 min and 100 hr-999 hr 50 min (attached with timing wait function)	
Operation functions	Fixed temp. operation, Auto start, Auto stop, Program operation	
Program mode	Program operation 3 segments 30 steps (30 steps×1, 15 steps×2, 10 steps×3)	
Additional functions	Deviation correction, Key lock, Power outage compensation	
Heater circuit control	SSR driving	
Temp. sensor	K thermocouple (Temp. controller and overheat protector)	
Safety device	Self-diagnosis circuit (Abnormal temp. sensing, Heater disconnection, Auto overheat prevention, SSR short circuit), Overheat protector, Overcurrent ELB, Key lock	
Internal dimensions (W×D×H)mm	800×800×800	1,000×1,000×1,000
External dimensions (W×D×H)mm	1,020×1,020×1,850	1,300×1,280×2,110
Internal capacity	512L	1,000L
Shelf support qty. / Pitch	4 steps / 105mm	4 steps / 140mm
Exhaust port	NW40 flange	
Vacuum port	Rc3/8	
Exhaust port / Purge port	NW25 flange / Rc 1/4 (18mm O.D.)	
Power source	Single phase AC220V 31.5A	3 phase AC380V 27A
Weight	Approx. 450kg	Approx. 1,000kg
Shelf	Stainless punching metal, 2 pcs	Stainless punching metal, 4 pcs
Optional	Shelf plate, Vacuum pump, N ₂ introduction device, Recorder, Indicator lamp (Stand-by / Running / Malfunction), External communication (RS485), Temp. output terminal (4-20mA), Output terminal for alarm device, Time up output terminal	

Control Panel

