



PRODUCT BROCHURE · YAMATO SCIENTIFIC

Large Capacity Vacuum Oven Programmable 1000L 480V 3-Phase

SKU DP-104C · Thermal Processing · Vacuum Ovens



QUICK VIEW

The Yamato DP-104C is a 1000 L floor-type large-capacity vacuum drying oven — the largest model in this vacuum-oven family and the larger of the 15% below MSRP.

VOLTAGE

3-phase AC480V, 18A,
50/60 Hz (no plug,
round terminal)

SOURCING

Authorized U.S.
distributor

SHIP WEIGHT

2205 lb

Distributed by Legacy Lab Supplies

legacylabsupplies.com · (855) 746-7557 / 855-SHOP-LLS · quotes in 24 hours



Floor Type Vacuum Drying Oven

Large capacity Vacuum Drying Oven

DP83C/104C



Operating
temp. range

40~200°C

Operating
pressure range

101~0.1kPa

Internal
capacity

512L (DP83C)
1000L (DP104C)

Large scale vacuum drying oven designed for treatment of large-sized parts



■ Operation and function

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

■ Safety features

- Self-diagnosis circuit (abnormal temperature sensing, heater disconnection, auto overheat prevention, SSR short circuit), overheat protector, ELB to prevent overcurrent, key lock, etc.
- For safety, resin protection panel is installed at the observation window

■ Specifications

Model	DP83C	DP104C
Method	Decompressed chamber direct heating	
Operating temp. range	40~200°C	
Operating vacuum range	101~0.1kPa (760~1Torr)	
Temp. adjustment accuracy	±1.0°C (at 200°C)	
Interior material	Stainless steel plate	
Exterior material	Cold rolled steel plate with chemical proofing coating	
Insulating material	Glass fiber	
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	3 segments PID	
Temp. setting	Use specialized function menu key and ▲/▼ 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 (with time wait function)	
Operation function	Fixed temp. auto start, auto stop, program operation	
Program mode	Program operation 3 segments 30 steps (30 steps×1, 15 steps×2, 10 steps×3)	
Additional function	Deviation correction, key lock, power outage compensation	
Heater circuit control	SSR driving	
Sensor	K thermocouple (temp. controller and overheat protector)	
Safety device	Self-diagnostic circuit (abnormal temp. sensing, heater disconnection, auto overheat prevention, SSR short circuit), overheat protector, EBL to prevent overcurrent, key lock, etc.	
Internal dimensions (W×D×H)	800×800×800 mm	1000×1000×1000 mm
External dimensions (W×D×H)	1020×1020×1850 mm	1300×1280×2110 mm
Internal capacity	512L	1000L
Air exhaust port	NW40 flange	
Air suction port	Rc 3/8	
Power source (50/60Hz) rated current	AC220V 31.5A (no plug, round terminal)	3 phase AC480V 18A (no plug, round terminal)
Weight	~450kg	~1000kg
Included accessories	Stainless steel punching plates, 2 pcs.	Stainless steel punching plates, 4 pcs.
Optional accessories	Shelf plate, vacuum pump, N ₂ introduction device, recorder, alarm indicator lamp (stand-by/running/malfunction), temp. output terminal (4~20mA), Output terminal for external alarm, time up output terminal	

■ Optional Items

Product Code	Description
Q110204006	DP83C shelf
Q110204007	DP103C shelf

Recommended pump:

Product Code	Description
NEODP83104KITD	NEODRY60E2 Dry vacuum pump kit 200-240V

