

Vacuum Drying Ovens

Model DP23 / 33

Model

DP23

DP33

Operating Temperature Range

40°C~240°C

Operating Pressure Range

101~0.1KPa

Temp. Control Accuracy

± 1.5°C (at240°C)

Internal Capacity

10 ℓ

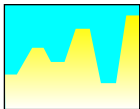
27 ℓ

Compact type of high-performance.

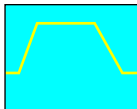
This is a small-sized vacuum drying oven designed for various purposes. The oven can be put on and off in temperature automatically. As the input system of the control panel is dialogical, anyone can input easily.

- Equipped with an interactive key input device and a graphic monitor.
- Equipped with various operational functions, including a program operation, and some other add-on functions.
- Safety measures are enriched, including self-diagnosis function and an independent superheating prevention device.

Control panel



Programming operation



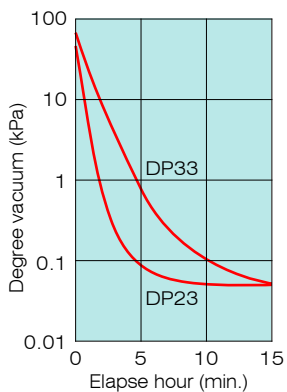
Automatic start & stop



DP23

DP33

Pressure Falling Character



Free air displacement of vacuum pump : 50 ℓ /min.



Vacuum Pump



● Vacuum Pump, Rotary type (Optional Accessory)



Vacuum Drying Oven

Yamato

Vacuum Drying

by Decompressed Chamber Direct Heating

Specifications

| Model | DP23 | DP33 |
|--|--|--------------------------------------|
| ■ Performance | | |
| System | Vacuum drying by decompressed chamber direct heating | |
| Operating temperature range | 40~240°C | |
| Operating pressure range | 101~0.1 kPa (760~1 Torr) | |
| Temp. control accuracy | ±1.5°C (at 240°C) | |
| Max. temp. reaching time | Approx. 60 min. | Approx. 150 min. |
| ■ Components | | |
| Interior Material | Stainless steel SUS 304 | |
| Exterior Material | Cold rolled steel plate with baked-on melamine resin finish | |
| Door | Single swing door | |
| Heat insulating material | Rock wool | |
| Heating method | Decompressed chamber direct heating | |
| Heater | Mica heater, 0.68kW | Mica heater, 1.05kW |
| Vacuum gauge | Bourdon tube type, 0~-0.1 mPa | |
| Observation window | Tempered glass and polycarbonate resin plate | |
| ■ Controller | | |
| Temp. control method | PID control by microprocessor | |
| Temp. setting method | Digital setting with ▲▼key | |
| Temp display method | Digital display by green LED | |
| Timer | 1 min.~99 Hrs. 59 min. and 100 Hrs.~999 Hrs. | |
| Min. division | 1 min. or 1 Hrs. | |
| Operation function | Fixed temperature operation, Auto-start operation, Auto-stop operation, Program operation (16 segments) | |
| Additional functions | Calendar timer (max. 24 Hrs.), Integration time (max. 49999 Hrs.), Time display | |
| Heater circuit control | Triac zero-cross control | |
| Temp. sensor | K-thermocouple (double sensor) | |
| ■ Safe Device | | |
| Safety countermeasures | Self diagnosis functions(Sensor, Heater, Triac, automatic overheating prevention), Independent overheating prevention, Key lock function, Electric leakage breaker | |
| ■ Standard | | |
| Internal dimensions(W×D×Hmm) | 200×250×200 | 300×300×300 |
| External dimensions(W×D×Hmm) | 400×410×682 | 510×460×782 |
| Internal capacity | 10 liters | 27 liters |
| Exhaust port / Purge port | 18mm O.D. | |
| Power source 50/60Hz | 100V/230V, single phase, 8A/3.5A | 100V/230V, single phase, 12A/5.3A |
| Weight | Approx. 43 kg | Approx. 69 kg |
| ■ Accessories | | |
| Shelf plate | Punched stainless steel, 2 pcs | |
| ■ Optional Accessories | | |
| Additional shelf plate / Temp. output terminal / Temp. program function / Adaptor for vacuum hose / Vacuum hose etc. | | |