



# Vacuum Drying Ovens

## Model DP43 / 63

Model

DP43

DP63

Operating Temperature Range

40°C~200°C

Operating Pressure Range

101~0.1KPa

Temp. Control Accuracy

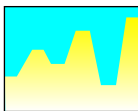
± 1.0°C (at 200°C)

Internal Capacity

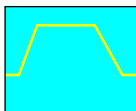
91 ℓ

216 ℓ

### Control panel



Programing operation



Automatic start & stop

Large-capacity type. Possible to form a system according to your purpose.

This is a vacuum drying oven for treatment on a large scale, designed for various purposes. A vacuum pump can be stored in the holder.

As the input system of the control panel is dialogical, anyone can Input easily.

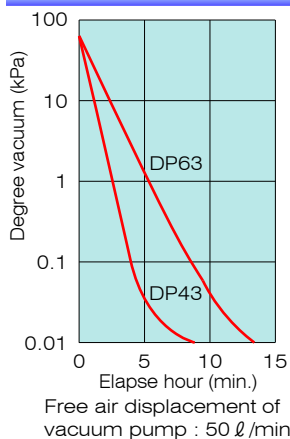
- Equipped with an interactive key input device and a graphic monitor.
- Equipped with various operational functions, Including a program operation, and some other add-on functions.
- Safety measures are enriched, including self-diagnosis function and an independent superheating prevention device.



DP43

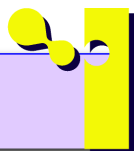
DP63

### Pressure Falling Character



### Vacuum Pump (Optional Accessory)





# Vacuum Drying Oven

Yamato

Vacuum Drying

by Decompressed Chamber Direct Heating

## Specifications

| Model                         | DP43   | DP63                                |
|-------------------------------|--|-------------------------------------|
| <b>■ Performance</b>          |  |                                     |
| System                        | Vacuum drying by decompressed chamber direct heating   |                                     |
| Operating temperature range   | 40~200°C   |                                     |
| Operating pressure range      | 101~0.1 KPa (760~1 Torr)   |                                     |
| Temp. control accuracy        | ±1.0°C (at 200°C)  |                                     |
| Max. temp. reaching time      | Approx. 180 min.   |                                     |
| <b>■ Components</b>           |  |                                     |
| 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, 2.25kW  | Mica heater, 3.15kW                 |
| Vacuum gauge                  | Bourdon tube type, 0~-0.1 mPa  |                                     |
| Observation window            | Tempered glass and polycarbonate resin plate   |                                     |
| <b>■ Controller</b>           |  |                                     |
| 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)   |                                     |
| <b>■ Safe Device</b>          |  |                                     |
| Safety countermeasures        | Self diagnosis functions(Sensor, Heater, Triac, Automatic overheating prevention), Independent overheating prevention, Key lock function, Electric leakage breaker |                                     |
| <b>■ Standard</b>             |  |                                     |
| Internal dimensions(W×D×Hmm)  | 450×450×450  | 600×600×600                         |
| External dimensions(W×D×Hmm)  | 670×669×1,500  | 820×819×1,650                       |
| Internal capacity             | 91 liters  | 216 liters                          |
| Exhaust port / Purge port     | NW25 flange / Rc 1/4   |                                     |
| Power source 50/60Hz          | 200V/230V, single phase,<br>12A/10.5A  | 200V/230V, single phase,<br>17A/15A |
| Weight                        | Approx. 190 kg   | Approx. 290 kg                      |
| <b>■ Accessories</b>          |  |                                     |
| Shelf plate                   | Punched stainless steel, 2 pcs   |                                     |
| <b>■ Optional Accessories</b> |  |                                     |

Additional shelf plate / Vacuum pump cart / Vacuum pump switch / N2 gas inlet port / Temp. output terminal / NW25 flexible hose / NW20/25 clamp / NW25 center ring / NW25 vacuum hose adaptor etc.



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