

Pressure/Vacuum Compact Clean Oven PCO-083TA

Wider control range for pressure and temperature

Both pressure and vacuum treatments can be performed with only one device.

Arbitrarily-specified pressure from 0 to 0.5 MPa is useful for pressurized applications.

Heat treatment up to 350°C is available for resin applications at high temperature, e.g., polyimide curing.

Space saving

A small footprint is achieved in spite of a large chamber to load 10 wafers of 200 mm in diameter.

High performance for R&D or small production

Simple operation and easy setup of temperature and pressure promote R&D activities.

High efficiency is obtained by programmable temperature control and adjustable pressure condition.

Several safety devices

High safety is ensured by a door lock system at pressurization, an overheat protector, and safety valves for over pressure.



- ✪ Maximum operating temperature: 350°C (PCO-083TA)
400°C (PCO-083TAH)
- ✪ Maximum operating pressure: 0.5 MPa
- ✪ Ultimate vacuum pressure: 10 Pa
- ✪ Adjustable increasing rates of temperature / pressure
- ✪ Small footprint less than 1m²
- ✪ Excellent temperature uniformity
- ✪ Exchangable stainless steel interior
- ✪ Signal tower to indicate the status of operation

PCO-083TA

The compact oven is applicable to the various fields;

- A wide variety of heat-treatment processes under pressurization / depressurization
- Low oxygen cure for polyimide
- Pressure-and-heat treatment for removing bubbles in seal or adhesion resins.
- Material synthesis under pressure.

Example of Pressure-and-heat treatment



*Bubbles disappear
after pressure-and-heat treatment*

Best fitted to thermal treatment in the mounting process of semiconductor devices, etc.

Specifications

Temperature property
Pressure range
Max. sample size
Capacity
Exchange gas
Internal material
Power supply
Outside dimensions
Weight

maximum 350°C (distribution $\pm 5^\circ\text{C}$)
press: 0 to 0.5 MPa, vac: ca. 10 Pa (ultimate)
 $\phi 200$ mm
 $\phi 240 \times \text{H}160$ mm
N₂ (5-6 MPa)
stainless steel plate (exchangeable)
200 V、50/60 Hz、2.5 kVA
W640×D520×H650 (mm)
85 kg

