

For Preventing pattern collapse

# Compact Supercritical Dryer

A pattern collapses when liquid surrounding the pattern in various fabrication processes dries up. Supercritical drying can prevent this kind pattern collapse.

## FEATURE

### ◎ Novel supercritical process

- >> The new solvent; non-flammable, low toxicity fluorocarbon liquid (HFE), which is different from conventional high-pressure CO<sub>2</sub> gas, is used as a supercritical material.
- >> Critical pressure of HFE is about one-third of that of CO<sub>2</sub>. It enables the downsizing of system.
- >> High zeta potential of HFE avoids particle adhesion.

### ◎ Simple operation

- >> Process is started by only pushing a start button after filling the chamber with HFE.
- >> No additional high-pressure gas cylinder is necessary.

### ◎ Space saving

- >> The footprint is less than 1m<sup>2</sup>, e.g., for laboratory use.

### ◎ Easy Customization

- >> Simple device configuration enables customers to design the chamber with a various size.

### ◎ Safety devices

- >> High safety is maintained by a door lock system, an overheat protector, safety valves for overpressure, etc.

## PCO-4SC

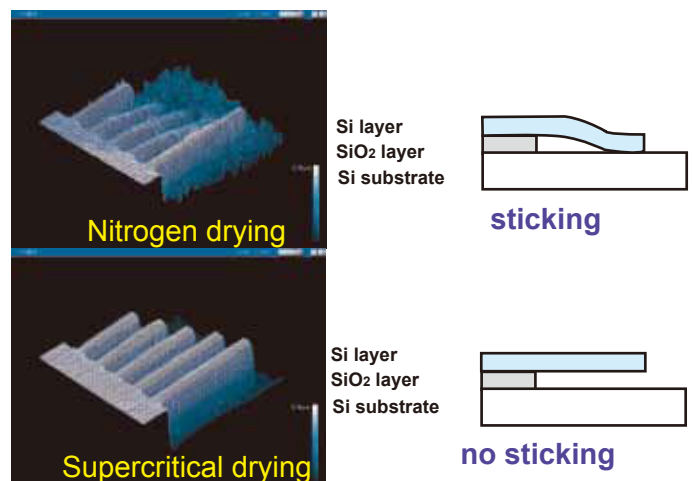
For laboratory use



### Specifications

typical process pressure : 2.6 MPa  
 typical process temperature : 473 K  
 chamber capacity : around 60 cc  
 overall size : W 500 x D 400 x H 470 mm

### The effect of supercritical HFE drying



Cantilever Structure