Quality is more than a word

One-Pass Oven

Prevents the risk of ignition that occurs during heat treatment and drying of samples containing volatile solvents

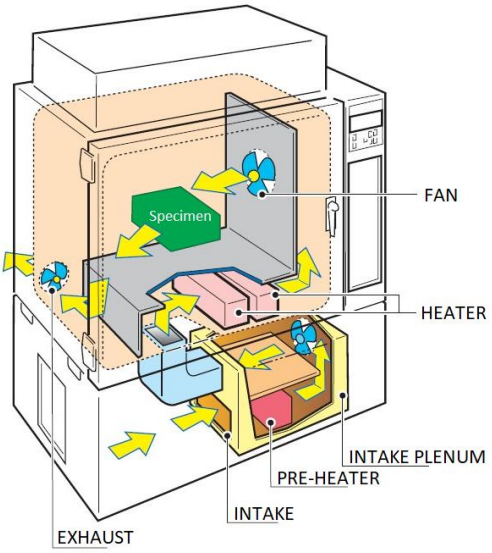
- Post solvent-cleaning process
- Prevent secondary vulcanization
- Safe heat process, less possibility of ignition

Some synthetic resins and paints contain volatile solvents. Heat treatment, drying and temperature of such substances. There was a risk of ignition when performing the property test. This is due to the fact that conventional ovens are recirculating and that the concentration increases each time the generated combustible gas circulates, which is a serious cause. The newly developed all-exhaust oven uses a fully exhaust system (non-circulating system) for air circulation in the tank to suppress the increase in gas concentration and prevent ignition caused by this.

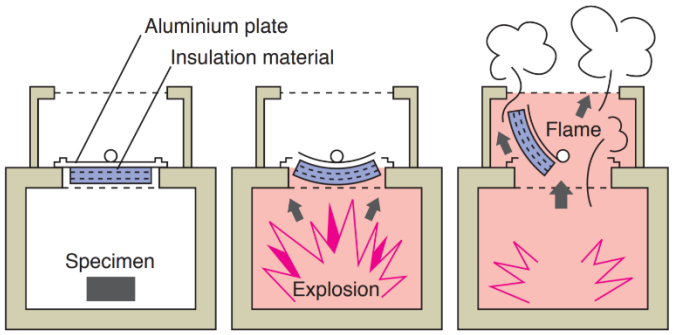
Structure and Features

- Avoid outgas contamination
- Uninterruptible power supplies are provided as standard for use in the event of a power failure or explosion.
- Comes with pressure relief vent and safety door lock for additional safety.

One-pass oven

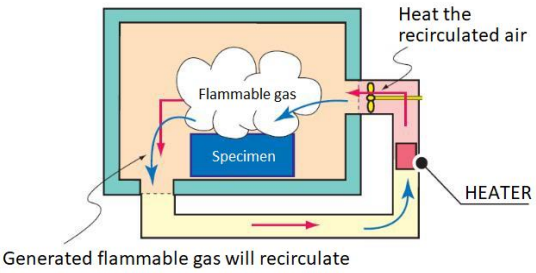


- Pressure relief vent

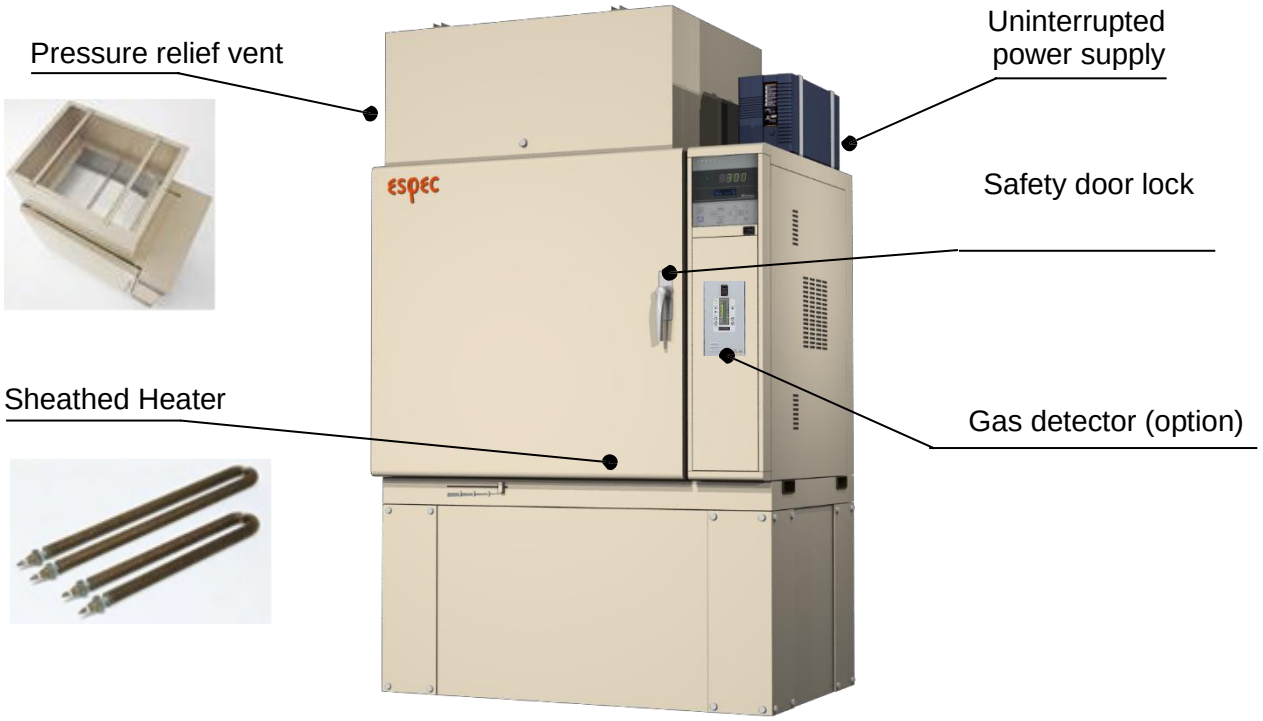


In case an explosion occurs inside the test chamber, as shown in the above image, insulation material is bent and blown upward together with the aluminium plate to the metal screen at the top of the chamber.

Conventional oven



Generated flammable gas will recirculate with the air, result in a high concentration



Model		SPH-202	SPH-302	SPH-402
Type		One-pass design		
Temp. Performance*1	Range	(ambient +40° C) to +200° C		
	Fluctuation	+/- 0.5° C (at +100° C) +/- 1.0° C (at +200° C)		+/- 2.0° C (at +100° C and +200° C)
	Distribution	+/- 1.5° C (at +100° C) +/- 3.0° C (at +200° C)	+/- 3.0° C (at +100° C) +/- 5.0° C (at +200° C)	+/- 8.0° C (at +100° C and +200° C)
	Heat-up time	<40 min From ambient to +200° C	<60 min From ambient to +200° C	<80 min From ambient to +200° C
Capacity		216L	512L	1000L
Dimensions	Internal	600 x 600 x 600	800 x 800 x 800	1000 x 1000 x 1000
	External	1190 x 1910 x 785	1500 x 2300 x 1065	1930 x 1800 x 1925
Weight		240kg	340kg	600kg
Requirements	Voltage	AC200V1Ph50/60Hz	AC200V3Ph50/60Hz	
	Amperage	39.5A	35A	72A
	Exhaust	>60m^3/hr	>80m^3/hr	>480m^3/h

*1: According to JTM K05: 2005

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