

## Anaerobic Oven (Less than 100ppm)



In recent years, wiring material has been changing from aluminum to copper with low resistivity. Accordingly, when heat processed in a normal chamber, copper parts oxidize, leading to flaws.

In addition, aging at 250°C is performed to inspect whether the written data on flash memory is deleted with electromigration, and bump parts oxide, so the oxygen concentration must be lowered to less than 100 ppm.

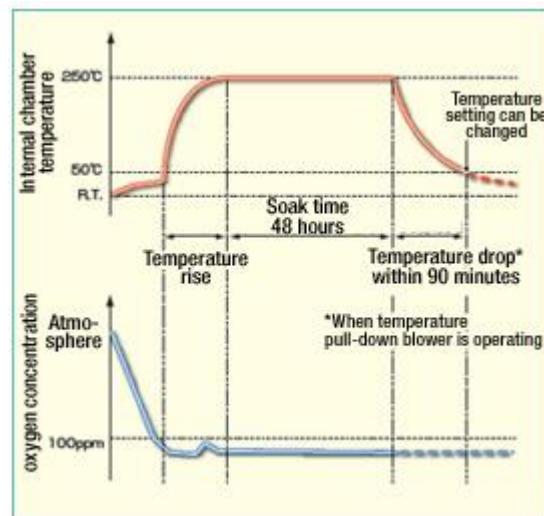
This Anaerobic Oven was developed to meet these demands. Aging tests at 350°C can be performed with an oxygen concentration of 100 ppm or less.

### Significant reduction in nitrogen gas use

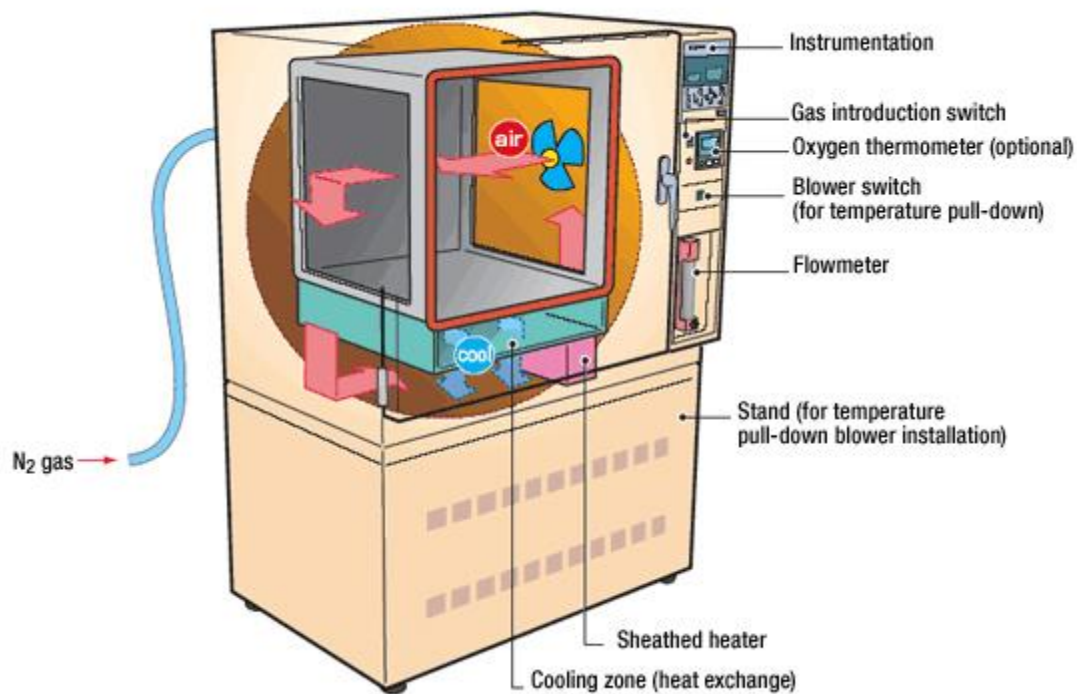
This model features a high air tight design of the chamber and nitrogen gas flow rate switching mechanism to significantly reduce the amount of nitrogen gas used.

### Reduced temperature pull-down time for reduced processing time

This model uses an innovative chamber cooling mechanism to reduce the temperature pull-down time by one-third when compared to conventional models. (Reference value: lowered from 240 minutes to 80 minutes) As a result, specimens can be more quickly removed, and processing time can be reduced.



### Device construction



### Main specifications

Model		IPHH-202L
Power supply		200V AC φW 50/60Hz *Supporting any power supply voltage as an option
Maximum voltage		3.8VA
Method		Forced hot air circulation
Performance	Temperature range	Ambient temperature +50 to +350°C
	Temperature fluctuation width	±0.1°C at 100°C/±0.2°C at 200°C ±0.2°C at 350°C
	Temperature uniformity	±0.5°C at 100°C/±1.5°C at 200°C ±3.0°C at 350°C
	Temperature heat-up time	Within 80 minutes from ambient temperature to +350°C
N <sub>2</sub> gas	Gas	N <sub>2</sub> gas (ambient temp. dry gas)
	Min. oxygen concentration	100 ppm or less (at 60 to 100 NL/min)
	Gas introduction	Mouthpiece ring joint 3/8 type pipe fitting
Inside capacity		216 L
Dimensions	Inside dimensions	W600×H600×D600mm (excluding protrusions)

	Outside dimensions	W1190×H1700×D825mm (excluding protrusions)
	Weight	250 kg
Instrumentation	Operating mode	Constant operation, program operation
	Setting and indication ranges	Temperature setting: 0 to +360°C Time: 0 to 99 hours and 59 minutes, 100 to 999 hours (time set in hour increments over 100 hours)
	Setting and indication resolution	Temperature: 1°C Time: 1 minute
	Indication accuracy	Temperature: within $\pm (2^{\circ}\text{C} + 1 \text{ digit})$ Time: $\pm 300$ ppm of read value

\* Performance is without a specimen at an ambient temperature of +23°C.

\* The model is for operational purposes and may be changed after order. Thank you for your understanding.

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