

GEER TYPE OVEN (45-cm-square)

APPLICATION

The Geer type Oven is widely used for evaluating thermal aging of plastics and rubber by the oven method. There are many kinds of thermostatic chamber generally known as the oven. Toyo Seiki's Geer type Oven has been especially designed and manufactured exclusively for aging tests and not as an ordinary dry oven or thermostatic chamber. Important factors such as temperature control precision, temperature distribution, air speed inside the oven, air change rate and sealing mechanism of the intermediate chamber, etc. have been fully taken into consideration in designing and constructing this oven.

A45/S45



A45-A



FEATURES

The air change rate automatic setting type(A45A) follows the change of the room temperature and controls the air change rate besides the air change rate automatic setting, which is the function of the previous model ACR-A.

The temperature distribution has been improved.

Up to 100 (±1), Up to 101 ~ 300 (±2)

*Previous model: ±3 up to 201 ~ 300

The specimen rotation rack is driven directly without the driving belt.

It can get rid of the belt breaking trouble.

Both of the maximum temperature of the machine and the temperature for protecting the specimen can be set by the over heat protector.

SPECIFICATIONS

MODEL	S45	A45	A45A
Dimension of oven	45(W) × 45(D) × 50(H) cm		
Temperature	Room tem.+20 ~ 300		
Temperature	SCR-PID control		
Temp. distribution accuracy	~ 100 (± 1), 101 ~ 300 (± 2) - - 9 points based on the standard		
Room temp. & inside temp.	Digital display(switchable)		
Over heat protector	2 sets : For max. temp. of the machine and temp. for protecting the specimen		
Air change rate measurement	Power consumption method(resolution 0.1wh)		
Air change rate	3 ~ 20 times/h(*3 ~ 60 times/h)		
Air change rate display	_____	Digital display(electric energy resolution: 0.1Wh)	
Set of the air change rate	Manual set	Manual set	Auto set
	Measure the power consumption by the optional air change meter and set with the setter to become the required air change rate.	Set with the setter so the air change rate which is computed and displayed can become the required air change rate.	Follow the change of the room temperature and control the air change rate automatically by setting the required air change rate(N).
Velocity of inside chamber	0.5 ± 0.1m/s- - average of 18 points based on the standard		
Specimen rotation rack speed	8 ~ 10 rpm.		
Net shelf	Three steps		
Dimensions	109(W) × 76(D) × 143(H)cm		
Weight	approx. 200 kg		
Electric source	3-P, AC200V, 14A, 50/60Hz(selectable) for Japanese power spec		

*The air change rate of max. 20 times/h is specified in the standards, however it can be measured up to 60 times/h although the temperature distribution and the air velocity may vary from a standard.

Option



Portable Air Change Meter
(A-200V type for model S45)



Control Panel
(Temperature controller+Air change meter)

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Specification may change without notice due to modification.