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No. 272 Geer Type Oven



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". Problems have often been encountered in use of these ovens – if these ovens which differ in their mechanisms were used carelessly, the results of testing differ very widely.

TOYO SEIKI's Geer type Oven has been especially designed and manufactured exclusively for aging tests and not as an ordinary drier or thermostatic chamber. Important factors such as temperature control precision, temperature distribution, temperature recovery after opening the door, 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.

FEATURES

- 1. Very high temperature control precision through use of digital type PID temperature control system and SCR control.
- 2. Overshoot protection circuit to assure very accurate thermal history of test sample.
- 3. Sealing mechanism assures very accurate air change rate.
- 4. Fully equipped with safely devices to assure safe operation.

ACCESSORIES



Sample rotating rack



Mesh plate

OPTIONS



Built-in type air change meter



External type air change meter

SPECIFICATIONS

Model 45 (45 cm square oven)

Model	A45A	A45	S45	
Dimensions of oven	W45 x D45 x H50cm			
Temperature control range	Room temp. + 20°C ~ 300°C			
Temperature distribution	~100°C (±1°C), 101~200°C (±2°C), 201~300°C (±3°C)			
accuracy				
Inside oven wind speed	0.5±0.1m/s (average of 18 points)			
Air change rate	3~20 times/h			
	(Mechanically possible up to 60 times/h.			
	However, out of tolerance of temp. distribution and wind speed)			
Air change rate setting	Automatic setting	Manual setting	Manual setting	
Air change meter	Equipped	Equipped	Option	
	(Built-in type)	(Built-in type)	(External type)	
Air change rate	Automatic	N/A	N/A	
automatic setting				
Sample rotating rack	8~10rpm			
Accessories	Sample rotating rack x 1, Mesh plate x 2, Clips x 60			
Electrical	Three-phase, AC200V, 3.8kVA (Others on request)			
Dimensions	W1090 x D760 x H1430mm			
Net weight	Approx. 200kg			

Model 60 (60cm square oven)

Model	A60A	A60	S60	
Dimensions of oven	W60 x D60 x H60cm			
Temperature control range	Room temp. + 20°C ~ 300°C			
Temperature distribution	~100°C (±1°C), 101~200°C (±2°C), 201~300°C (±3°C)			
accuracy				
Inside oven wind speed	0.5±0.1m/s (average of 18 points)			
Air change rate	3~20 times/h			
	(Mechanically possible up to 60 times/h.			
	However, out of tolerance of temp. distribution and wind speed)			
Air change rate setting	Automatic setting	Manual setting	Manual setting	
Air change meter	Equipped	Equipped	Option	
	(Built-in type)	(Built-in type)	(External type)	
Air change rate	Automatic	N/A	N/A	
automatic setting				
Sample rotating rack	8~10rpm			
Accessories	Sample rotating rack x 1, Mesh plate x 2, Clips x 60			
Electrical	Three-phase, AC200V, 4.9kVA (Others on request)			
Dimensions	W1170 x D920 x H1550mm			
Net weight	Approx. 290kg			

REFERENCE STANDARD

JIS B 7757 ISO 188 (JIS K 6257) ISO 4577 (JIS K 7212) etc.

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