

# Rapid-Rate Thermal Cycle Chamber

## TCC-151W-20

### New! High performance model meeting JEDEC/IPC standards

ESPEC launched a new high-performance model TCC-151W-20 with temperature change rate of 20K/min.

Ideal for severe temperature cycling test standards across advanced industries such as semiconductor, electronics and automotive.



### CUSTOMER BENEFITS

#### Linear 20K/min

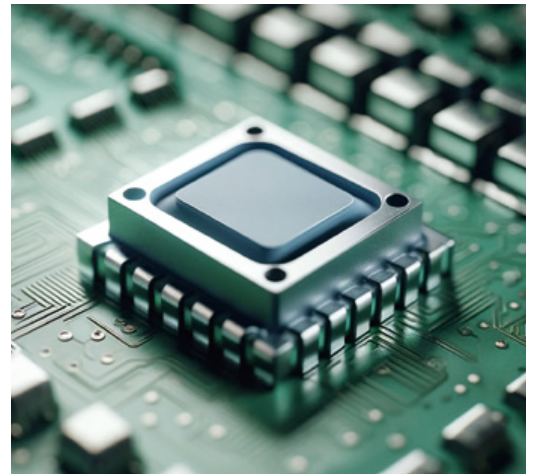
Product temperature control of linear 20K/min

#### Designed to meet severe testing standards such as:

- JESD22-A104 Temperature cycling test to determine the ability of component and solder interconnects to withstand mechanical stresses
- IPC-9701 Performance test for surface mount solder attachments
- IEC 60068-2-14 Nb Change of temperature test with specified rate of change ~ Faster change rate of 20K/min is added to the latest requirements

#### Minimizes potential environmental impact

- Low GWP refrigerant R-449A
- CE & RoHS compliant



### SPECIFICATIONS

Model		TCC-151W-20 <b>\NEW/</b>	TCC-151W
Temperature range		-70°C to +180°C	
Performance	Test condition temperature range	-23.5°C ⇄ +108.5°C (Temperature range between 10% and 90% of the test condition temperature range: -40°C ⇄ +125°C)	
	Specimen	Specimen: (glass epoxy PCB) 5kg + Jig: 4kg	Specimen: (glass epoxy PCB) 5kg + Jig: 4kg
	Control target	Air temperature/Product temperature	
	Ramp control	ON	
	Temperature rate of change	20K/min	15K/min
Test area capacity		160L	160L
Inside dimensions (mm)		W800×H500×D400	W800×H500×D400
Outside dimensions (mm)		W1000×H1808×D1913	W1000×H1808×D1915

# Rapid-Rate Thermal Cycle Chamber

## TCC-301W-10

### New 300 Liters model for testing JEDEC/IPC standards

ESPEC launched a new model TCC-301W-10(300 Liters) to the TCC product line-up to meet larger capacity demand for testing to meet JEDEC temperature cycling test standard JESD22-A104 and performance test methods for electronics IPC-9701.

Now TCC series allow you to choose the size and performance best suited for your test applications.



### CUSTOMER BENEFITS

#### ● Save your time

300L is large enough to accommodate many test samples

#### ● Linear 10K/min

Product temperature ramp control of linear 10K/min

#### ● Practical applications across industries

- Semiconductor, automotive and electronics
- Suitable for environmental stress screening (ESS) at production process or reliability testing and evaluation at development process

#### ● Minimizes potential environmental impact

- Low GWP refrigerant R-449A



### SPECIFICATIONS

Model		TCC-301W-10 <b>\NEW/</b>	TCC-151W
Temperature range		-70°C to +180°C	
Performance	Test condition temperature range	-23.5°C ⇄ +108.5°C (Temperature range between 10% and 90% of the test condition temperature range: -40°C ⇄ +125°C)	
	Specimen	Specimen: (glass epoxy PCB) 10kg + Jig: 8kg	Specimen: (glass epoxy PCB) 5kg + Jig: 4kg
	Control target	Air temperature/Product temperature	
	Ramp control	ON	
	Temperature rate of change	10K/min	15K/min
Test area capacity		300L	160L
Inside dimensions (mm)		W800×H500×D750	W800×H500×D400
Outside dimensions (mm)		W1000×H1808×D2265	W1000×H1808×D1915