

## Jeio Tech 180 Litre Floor Standing Temperature & Humidity Chamber (TH-TG-180)

**Product Code:** AAHC2002K

**Brand:** Jeio Tech

The Jeio Tech 180 Litre Floor-Standing Temperature and Humidity Chamber (TH-TG-180) is an economical environmental test chamber that can be easily operated with its colourful, interactive touch-type LCD controller.

### Features:

#### Performance:

- Microprocessor PID control/temperature calibration/automatic tuning.
- Advanced performance of low and high temperature and humidity control, achieved by adapting the humidification tank exterior to the chamber, added benefit for long term test.
- Water recycling system reduce water consumption for longer operation.
- Air-tight door closure with perfect sealed packing. Heat-resistant silicone packing completely blocks high heat leakage from the inner chamber.
- Energy efficiency is achieved by optimization of the insulation system. Even if the unit is operating at max. temperature, the surface of the unit doesn't allow high temperatures of over 60°C.

#### Safety:

- Built-in door lock with a key.
- Automatic shut off after overheat alarm.
- Power supply leakage breaker.
- Over current protection.
- Open door alarm.

#### Convenience:

- Spacious chamber volume with a capacity of 180 litres.
- Corrosion resistance stainless steel chamber and electric polished humidification tank.
- Maintenance of water supply are easily performed with a front water tank. Portable water container makes supplying water convenient.
- Water supply during operation is also available for long term test purposes.
- Direct water system provides user great convenience when performing long-term tests (optional).
- Clear observation of samples. Tempered glass door with built-in heating wire. Energy efficient, long life span LED lighting. Wider view, inner glass door is available for monitoring of samples (optional).
- Cable port for introduction of external probes or wires. 50mm diameter cable port comes standard on the left side of the unit. Additional 50mm or 80mm cable ports, custom order (optional).
- Casters for easy mobility during installation or relocation.
- User-friendly LCD controller. Colourful interactive touch type LCD controller. Set point temperature and present temperature are clearly shown together on display. Sufficient programmable control support. Operating progress can be shown in graph mode for better data undersanding. Automatic start/stop can be programmed for unattended operations. Display indicates abnormal temperature change or power failures. Selective bilingual language support (Korean/English or English/Chinese, selectable only when placing an order). Temperature and other operating parameters can be recorded using a six channel digital recorder (optional).
- Computer interface. RS-485 communication port (optional) enables connection up to maximum 32 units. Simultaneous monitoring and operating of multiple units is an available feature. Programme patterns are simple to set with the use of our software. Easy to check status of real-time operations. Graph data supports easy understanding. Storage and documentation of programmes. Data with saving capabilities in Excel and text format. Storage of programme information, back-up of value settings, recovery, and temperature values. RS-232 communication port as standard offer.



## Specifications:

<b>Chamber Volume (litres)</b>		180	
<b>Controller</b>		Programme controller (LCD type)	
<b>Temperature</b>	<b>Range (°C)</b>	<b>Without Humidity</b>	-5 to 100
		<b>With Humidity</b>	10 to 90
	<b>Fluctuation at 40°C/60%RH</b>		± 0.3
	<b>Variation at 40°C/60%RH</b>		± 0.5
<b>Time (min.)</b>	<b>Heating</b>		50 from -5°C to 100°C
	<b>Cooling</b>		120 from 100°C to -5°C
<b>Humidity (%RH)</b>	<b>Range (%RH)</b>		10 to 95
	<b>Fluctuation at 60%RH/40°C</b>		± 2
	<b>Variation at 60%RH/40°C</b>		± 3
<b>Refrigeration</b>	<b>System</b>		Air-cooled
	<b>Refrigerant</b>		R-507A
<b>Water Tank</b>	<b>Capacity (litres)</b>		15
	<b>Water Quality</b>		pH 6.2 - 7.2 (electrical conductivity 20µs/cm to below)
<b>No. of Wire Shelves (standard/max.)</b>		2/7	
<b>Distance of Between Shelves (mm)</b>		60	
<b>Max. Load Per Shelf (kg)</b>		20	
<b>Permitted Total Load (kg)</b>		50	
<b>Dimensions</b>	<b>Internal (w x d x h)</b>		500 x 600 x 600mm
	<b>External (w x d x h)</b>		952 x 907 x 1503mm
	<b>Viewing Window</b>		200 x 330mm
	<b>Net Weight (kg)</b>		220 ± 10
<b>Cable Port</b>		Basically one hole provided/ Ø 50mm. Optionally max. two holes available/ Ø 50mm or 80mm.	
<b>Interface Port</b>		Basically RS-232C (RS-485 optional).	
<b>Electrical Requirements (AC230V, 1ph, 50Hz)</b>		12.3A	

Unit 3, Tower Business Park  
 Warpsgrove Lane  
 Chalgrove  
 Oxfordshire  
 OX44 7XZ

**Tel:** (+44) 01865 400321

**Email:** [enquiries@medlinescientific.com](mailto:enquiries@medlinescientific.com)

**Website:** [www.medlinescientific.com](http://www.medlinescientific.com)