

## Jeio Tech 189 Litre Floor Standing Temperature and Humidity Chamber (TH-G-180)

**Product Code:** AAH80012K

**Brand:** Jeio Tech

With a high-quality #304 stainless steel exterior and interior, the Jeio Tech 189 Litre Floor Standing Temperature & Humidity Chamber (TH-G-180) is a safe and reliable tool that can be used to test the effects of detailed environmental surroundings in biological and industrial products, along with other materials.

### 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 and filtering 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. Two-point door latch also enhances tightness to door closure.
- 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.

#### Convenience:

- Spacious chamber volume with a capacity of 189 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 diameter cable ports, custom ordered (optional).
- Casters for easy mobility during installation or relocation.
- User-friendly LCD controller. 5.7 inch colourful interactive touch type LCD controller. Set value and present value are clearly visible together on display. Operating progress visible in graph mode allows for direct data interpretation. Built-in SD card drive. Trilingual support (English/Chinese/Korean). Temperature and other operating parameters recorded with use of selectable recorder (optional). Sufficient programmable control support.
- Computer interface. RS-485 communication port enables connection of up to maximum 9 units. Simultaneous monitoring and operating of multiple units is an available feature (optional). Programme patterns are simple to set with the use of our software. Storage of programme information, backup of value settings, recovery, temperature, humidity values. RS-232 communication port comes standard.

#### Safety:

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



## Specifications:

<b>Chamber Volume (litres)</b>		189
<b>Controller</b>		Programmable, touch-screen controller (5.7" colour monitor)
<b>Temperature</b>	<b>Range Without Humidity</b>	-40 to 150
	<b>Range With Humidity</b>	15 to 90
	<b>Fluctuation at 40°C/ 75%RH</b>	± 0.3
	<b>Variation at 40°C/ 75%RH</b>	± 0.5
<b>Time (min.)</b>	<b>Heating without Humidity</b>	70 (20°C to -40°C)
	<b>Cooling without Humidity</b>	75 (20°C to -40°C)
<b>Humidity</b>	<b>Range (%RH)</b>	25 to 95
	<b>Fluctuation at 75%RH/ 40°C</b>	± 0.4
	<b>Variation at 75%RH/ 40°C</b>	± 3.0
<b>Refrigeration</b>	<b>System</b>	Mechanical single stage refrigeration system (air-cooled condenser)
	<b>Refrigerant</b>	R-507
<b>Water Supply</b>	<b>Capacity (litres)</b>	15 - Cartridge Type
	<b>Water Quality</b>	pH 6.2 to 7.2/electrical conductivity 20µs/cm to below
<b>No. of Wire Shelves (standard/max.)</b>		2/9
<b>Distance of Between Shelves (mm)</b>		40
<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 630 x 600
	<b>External (w x d x h)</b>	1003 x 1139 x 1468
	<b>Viewing Windows (mm)</b>	200 x 330
	<b>Net Weight (kg)</b>	320
<b>Cable Port</b>		Basically one hole provided/Ø 50mm or optional max. two holes available/Ø 50 or 80mm
<b>Interface Port</b>		Basically RS-232C (RS-485 optional)

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