

Jeio Tech Tabletop Temperature and Humidity Chambers (TH-PE Series)

Brand: Jeio Tech

From 25 to 100 litres, Jeio Tech's Temperature and Humidity Chambers (TH-PE Series) are specially designed to meet extreme temperature requirements and also have strong temperature and humidity control.

Standard features include microprocessor PID control, a tempered glass window to clearly observe samples, and a colourful user-friendly touch-type LCD controller.

Features:

Performance:

- Microprocessor PID control/temperature calibration/automatic tuning.
- Uniform temperature and humidity control guarantees reliable test results.
- Air-tight door closure with perfect sealed packing. Heat-resistant silicone packing completely blocks high heat leakage from the inner chamber.
- Maintenance of water supply is easily performed. Water level condition is easy to check by the water level indicator on the front control panel.
- 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).

Convenience:

- Compact design and quiet operation.
- Three different size models are available to suit user's needs.
- Corrosion resistance stainless steel chamber.
- Operating condition is clearly noticed by front LED indicator. Three different coloured show each status of running, stop, and power off condition.
- Clear observation of samples. Tempered glass window with wire heater and lighting provides a clear view of samples in the chamber, beneficial for during testing.
- Cable port for introduction of external probes or wires. 50mm diameter cable ports comes standard on the left side of the unit. Additional 50mm or 80mm diameter cable ports, custom ordered (optional).
- Two types of stands for space-saving (optional). Single stand with a drawer provides enough storage space. Two step stand accepts loading two units to save limited space.
- 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 understanding. Automatic start/stop can be programmed for unattended operations. Display indicates abnormal temperature changes 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.

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:

Model(s)		TH-PE-025	TH-PE-065	TH-PE-100
Product Code(s)		AAH82212K	AAH82222K	AAH82232K
Chamber Volume (litres)		25	65	100
Controller		Programme controller (LCD type)		
Temperature	Range (°C)	0 to 120 (without humidity) 15 to 90 (with humidity)		
	Fluctuation at 25°C/60%RH	± 0.2	± 0.3	± 0.2
	Variation at 25°C/60%RH	± 0.3		
Time (min.)	Heating without Humidity from 0°C to 120°C	40		
	Cooling without Humidity from 0°C to 120°C	30		
Humidity	Range (%RH)	30 to 95		
	Fluctuation at 60%RH/55°C	± 1.6	± 0.4	± 0.5
	Variation at 60%RH/55°C	± 3		
Refrigeration	System	Mechanical stage single refrigerator system (air-cooled condenser)		
	Refrigerant	R-404A		
Water Tank	Capacity (litres)	7.5	10	14.5
	Water Quality	pH 6.2 to 7.2, electrical conductivity 20°C/cm to below		
No. of Wire Shelves (standard/max.)		2/7	2/10	
Distance of Between Shelves (mm)		20		
Max. Load Per Shelf (kg)		25		
Permitted Total Load (kg)		65		
Dimensions	Internal (w x d x h)	348 x 220 x 353mm	398 x 330 x 498mm	498 x 390 x 538mm
	External (w x d x h)	611 x 878 x 911mm	660 x 1048 x 1056mm	761 x 1108 x 1096mm
	Viewing Window (mm)	220 x 300		
	Net Weight (kg)	80 ± 5	110 ± 5	130 ± 5
Cable Port		Basically one hole provided/Ø 50mm. Optional max. two holes available/Ø 50 or 80mm.		
Interface Port		Basically RS-232C (RS-485 optional)		
Electrical Requirements (230V, 1ph, 50Hz)		9.6A	12A	14.4A