Temperature & Humidity Chambers (Tabletop - TH-PE)



The best choice for the limited laboratory space! Tabletop chamber is beneficial for space efficiency.



Control range



TH-PE

Standard accessories Optional accessories • Viewing window, Wire shelves, Cable port (Ø50mm), Door key

• Two step stands, Direct water system

see page 237% Above products design can be changed without prior notice.

Inner glass door is not equipped to the unit since 2013.



Dimension

Model	TH-PE-25	TH-PE-65	TH-PE-100
Capacity	25L (0.9 cu ft)	65L (2.3 cu ft)	100L (3.53 cu ft)
W	522mm (20.6")	602mm (23.7")	760mm (29.9")
D	878mm (34.6")	1048mm (41.3")	1108mm (43.6")
Н	919mm (36.2")	1056mm (41.6")	1096mm (43.1")
Α	211mm (8.3")	276mm (10.9")	276mm (10.9")
В	495mm (19.5")	580mm (22.8")	580mm (22.8")



Performance

- Microprocessor PID control / Temperature calibration / Automatic tuning.
- Uniform temperature and humidity control guarantees reliable test result.
- · 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)

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.

TEMIBOD OWNER CORRUE FIX RUNNING 03 19P 40.0 85.0 SP 40.0 40.0 85.0 Multi-control Display Single-control Display NENU PAGE 4 SET Image: Set 100 minipage MENU PAGE 4 SET Image: Set 100 minipage Graph Display Graph Display

LCD controller





Viewing window

Door handle

Convenience

- Compact design and quite operation.
- Three different size models are available to suit user's need.
- Corrosion resistance stainless steel chamber.
- Operating condition is clearly noticed by front LED indicator.
- Three different colored lights 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 port comes standard on the left side of the unit.
- Additional 50mm or 80mm diameter cable ports, custom ordered. (optional)
- Two type 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.
- Set value and present value are clearly visible together on display.
- Operating progress visible in graph mode allow for direct data interpretation.
- Temperature and other operating parameters recorded with use of selectable recorder. (optional)
- Sufficient programmable control support.

Description	No
Programmable pattern capacity	10
pattern repeat time	999
Max. Segments per a pattern	100
Available max. segments*	100
Programmable process time per a segment	0 to 99 hr. 59 min.

- * Even though the max. segments per a pattern are 100, available total segments are up to 300 not 3000, so you need to arrange the number of segment and patterns properly.
- · Computer interface.
- 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)
- Program patterns are simple to set with the use of our software.
- Storage of program information, backup of value settings,
- recovery, temperature, humidity values.
- RS-232 communication port comes standard.

Model		TH-PE-025	TH-PE-065	TH-PE-100	
Chamber volume (L / cu ft)		25 / 0.9	65 / 2.3	100 / 3.5	
Controller		Program controller (LCD type)			
	Range (°c / °F)	0 to 120 / 32 to 248 without humidity 15 to 90 / 59 to 194 with humidity			
Temperature	Fluctuation ¹⁾ (±℃ / °F) at 25℃ / 60%RH	0.2 / 0.36	0.3 / 0.54	0.2 / 0.36	
	Variation ¹⁾ (±℃ / °F) at 25℃ / 60%RH	0.3 / 0.54			
Time	Heating - without humidity (min.) from 0℃ to 120℃	⁰ 40			
Time	Cooling - without humidity (min.) from 20 °C to 0 °C	.) 30			
	Range (%RH)	30 to 95 ※ See page 228 for more detailed humidity range check.			
Humidity	Fluctuation ¹⁾ (±%RH) at 60%RH / 55 ℃	1.6	0.4	0.5	
	Variation ¹⁾ (±%RH) at 60%RH / 55 ℃	3.0			
Refrigeration	System	Mechanical single stage refrigerator system (air-cooled condenser)			
Reingeration	Refrigerant	R-404A			
Water tank	Capacity (L / cu ft)	7.5 / 0.26	10 / 0.35	14.5 / 0.51	
Water tank Water quality		pH6.2 ~ 7.2, Electrical conductivity 20 $^{\circ}$ / cm to below			
No. of wire sh	elves (standard / max.)	2/7	2 / 10	2 / 10	
Distance of be	tween shelves (mm / inch)	20 /1.6	20 /1.6	20 /1.6	
Max. load per	shelf (kg / lbs)	25 / 55.1	25 / 55.1	25 / 55.1	
Permitted tota	l load (kg / lbs)	65 / 143.3	65 / 143.3	65 / 143.3	
Dimension (WxDxH)	Interior (mm / inch)	348×220×353 / 13.7×8.7×13.9	398×330×498 / 15.7×13×19.6	498×390×538 / 19.6×15.4×21.2	
	External (mm / inch)	552x878x919 / 21.7x34.6x36.2	602x1048x1056 / 23.7x41.2x41.6	760x1108x1096 / 29.9x43.6x43.1	
	Viewing window (mm / inch)	220×300 / 8.7×11.8			
	Net weight (kg / lbs)	80±5/176±11	110±5/242±11	130±5/286±11	
Cable port		Basically one hole provided / Ø 50mm (2") Optionally max. two holes available / Ø 50 or 80mm (2 or 3.2")			
Interface port		Basically RS-232C [RS-485-optional]			
Electrical requ	irements (230V, 1hp, 60Hz)	9.6A	12A	14.4A	
Cat. No.		AAH82211K	AAH82221K	AAH82231K	
Electrical requirements (230V, 1hp, 50Hz)		9.2A	11.1A	13.8A	
Cat. No.		AAH82212K	AAH82222K	AAH82232K	

1) Technical data according to DIN 12880, IEC 60068.

* 80mm cable access hole is NOT available for 25L chamber (TH-PE-025).

* Above the dimensions are NOT included size of attached accessories.

* Permissible environmental conditions: temperature (18 to 30°C) and relative humidity (up to 85%).
 * All specifications are under ambient temperature 20°C (68°F), No load.
 * FDA establishment registered company. FDA listed products.

for Tabletop Chambers

Accessory check list

Accessory check list		□ Sta	andard o Optiona
Description	Models		
Description	TH-KE	TH-ME	TH-PE
Portable recorder (6 points)	0	0	0
Portable recorder (digital, 6 channels)	0	0	0
interface converter $RS\text{-}485C \rightarrow 232C$ included a cable (5m / 16.4ft)	0	0	0
Interface cable (5m / 16.4ft)	0	0	0
Warning signal lamp	0	0	0
Viewing window			
Wire shelf			
Perforated shelf	0	0	0
Cable port (Ø 50mm / 2.0")			
Cable port (Ø 80mm / 3.2") ¹⁾	0	0	0
Stand	0	0	0
Two step stand	0	0	0
Temperature sensor (RTD type)			
Humidity sensor			
Water purifier	0	0	0
Direct water system	0	0	0

1) 80mm cable access hole is NOT available for 25L chamber.

Ordering information

Cat. No.	Description	Suitable for
AAA8T504	Portable recorder (6 points)	All models
AAA8T506	Portable recorder (digital, 6 channels)	All models
AAA8T540	Interface converter RS-485C → 232C Included a cable (5m / 16.4ft)	All models
AAA8T542	Interface cable (5m / 16.4ft)	All models
AAA80550	Warning signal lamp	All models
RTD679		TH-KE/ME/PE-025
RTD680	Wire shelf	TH-KE/ME/PE-065
RTD681		TH-KE/ME/PE-100, TH-PF-100
AAA80602-6		TH-KE/ME/PE-025
AAA80602-7	Perforated shelf	TH-KE/ME/PE-065
AAA80602-8		TH-KE/ME/PE-100, TH-PF-100
AAA8T610	Cable port (Ø 50mm / 2.0")	TH-KE/ME/PE/PF Models
AAA8T611	Cable port (Ø 80mm / 3.2")	TH-KE/ME/PE/PF Models ¹⁰
AAA80631		TH-KE/ME/PE-025
AAA80632	Stand	TH-KE/ME/PE-065
AAA80633		TH-KE/ME/PE-100, TH-PF-100
AAA80634		TH-KE/ME/PE-025
AAA80635	Two step stand	TH-KE/ME/PE-065
CFA1923	Temperature sensor (RTD type)	All models
CFA7113	Humidity sensor	All models
AAA8T621	Water purifier	All models
AAA80620	Direct water system	All models

1) 80mm cable access hole is NOT available for 25L chamber.