

HIRAYAMA PC422R7 "HATEST"

Unsaturated Hast System

Immaculate condition, as new.

Under 8,000 hours operation.

The system has been regularly maintained.

Pressure vessel dimensions 340 mm dia. x 475 mm deep.

Separate boiler (steam generator)

Both are made from SUS 316L stainless steel,
traceable to the Japanese Boiler Makers Association.

Temperature range: +105°C to +149°C

Variable RH, 65-100% and resultant pressure of 0.2-2 bar.

20 test lead terminals from vessel to front panel.

6 Point Chart Recorder.

Automatic water supply to boiler.

Actuation Timer for start delay setting and convenient test end time.

Cooling tank for safe exhaust.

Fail safe alarms, visual & audible.

Motorised door with safety interlocks.

The system is a floor standing unit on castors.

Size 690 mm W x 870 mm D x1600 mm H

Weight ~280 Kg.



Other Characteristics

Automatic Water Supply System

Only by pushing START button, optimum amount of water is supplied from built-in Water Tank to Steam Generator automatically.

Automatic Starter

Automatic Starter enables starting at a designated time. (month/day/time)

Bias Terminals

20 Bias Terminals are provided.

Safety-oriented Design

Delicately designed in every aspect. (e.g. Elimination of noise).

Instant Power-failure Compensation Circuit

Power-failure compensation circuit is built-in, and good for power-failure up to 4 seconds, during which test can be continued.

Alarming Devices

Emergency conditions during operation, such as overpressure, overheat, heating under lack of water, etc., if any, activate the alarming devices to suspend operation and indicate by Indication Lamp and Buzzer. At the same time, cause of emergency is shown in the display.

Safety Draining

After the test, hot water is cooled through the built-in cooling tank and discharged. (Easy connection of the rubber hose end to heat-resisting PVC piping).

HASTEST



Easier Handling of Door and Easier Attaching/Detaching of Specimens

- Safety and Reliability -

Door Clamping Method

By means of electric clamping, which assures a constant clamping force, safe and secure handling of the door is attained.

- Free from leakage of steam or excessive wear of lid gasket.
- Interlock mechanism prevents the door from opening under high temperature and/or high pressure.

Sliding Tray System

The tray slides in and out together with the door.

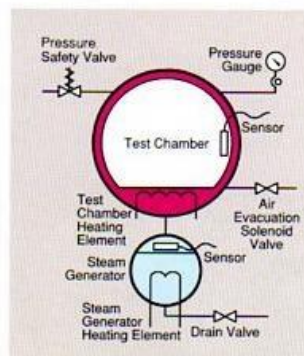
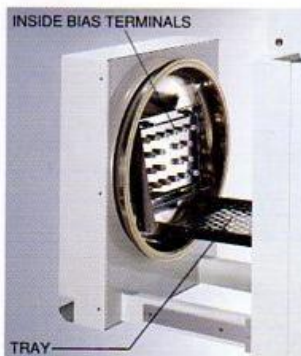
This releases operator from dangerous work to take out the specimens from the still hot chamber. This also facilitates wiring between the specimens and the bias terminals equipped at the inside of the door.

Dual Chambers to Secure

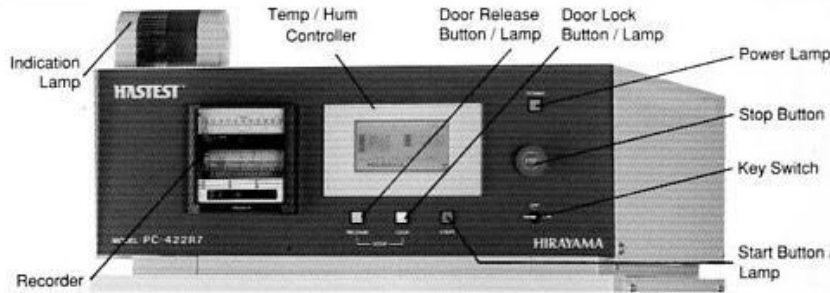
- Higher Control Accuracy of Temperature and Humidity
- Wider Humidity Range

Steam generator and test chamber are separated from each other, and controlled independently, so that the temperature interaction between two chambers is minimized. Further, the accuracy of humidity control is enhanced by adoption of internal heating system, and the specimens are free of any harm that would be otherwise caused by steam condensation on them.

Highly reliable test is attained keeping an interrelation with the field data and traditional THB test.



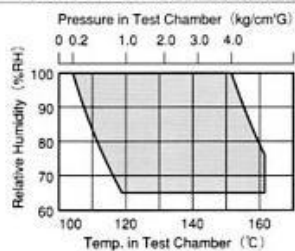
Operation Panel



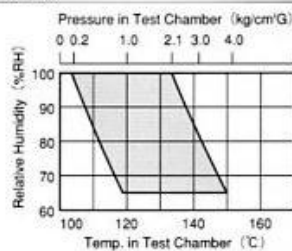
Specifications

	PC-304R7	PC-422R7
Model	PC-304R7	PC-422R7
Power Supply	AC200/220V 50/60Hz 2.3kW	AC200/220V 50/60Hz 3.5kW
Heater Capacity	Steam Generator 1.5kW Test Chamber 0.6kW	Steam Generator 2.0kW Test Chamber 1.3kW
Outer Dimensions (mm)	700W × 885D × 1680H	
Test Chamber Size(mm)	300 φ × 400D 28.3 ℓ	420 φ × 555D 76.2 ℓ
Effective inner size (mm)	220 φ × 350D 13 ℓ	340 φ × 475D 38 ℓ
Net Weight	Approx. 260kg	Approx. 280kg
Temperature Control	PID/SSR	
Testing Temperature Range	105.0~151.4°C (at 100%RH)	105.0~134.3°C (at 100%RH)
	109.8~157.5°C (at 85%RH)	109.8~140.0°C (at 85%RH)
	117.9~162.5°C (at 65%RH)	117.9~150.0°C (at 65%RH)
Control Accuracy	±0.5°C	
Distribution Accuracy	±0.5°C (at 100%RH)	
	±1.0°C (at 85%RH)	
Humidity	Range 65~100%RH	
	Accuracy ±3%RH (at 85%RH)	
Pressure Range	0.2~4.0kg/cm ² G	0.2~2.1kg/cm ² G
Time	Continuous	Max. 500hrs.
	Range	0.1~999.9Hrs.
Instant Power Failure Compensation	Approx. 4 sec.	
Time for Reaching Rated Temperature	Approx. 60min. (Room Temp→120°C, 85%RH)	
Safety Alarm Devices	Pressure safety valve, Proof for overpressure, overheating, and heating under lack of water. Sensor for lack of water, feed-water failure. Breaker for electric leakage and heater. Safety devices for door handling. Locking device for at rated values. Self-checking device for sequence control. Negative pressure prevention device	
Standard Accessories	Feed-water hose (1pc.) Drain hose (1pc.) Power cord (1pc.) Lid gasket (2pcs.) Power SW Key (2pcs.) Aux. feed-water tank (1pc.)	

Temp. & Humidity Control Range



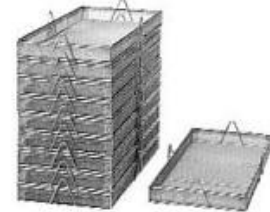
Temp. Range : 105.0~162.5°C
 Hum. Range : 65~100%RH
 Pressure Range : 0.2~4.0kg/cm²G (0.02~0.04Mpa)



Temp. Range : 105.0~150.0°C
 Hum. Range : 65~100%RH
 Pressure Range : 0.2~2.1kg/cm²G (0.02~0.21Mpa)

Options

BASKET



250W×440D×30H (mm)



Please ask us for special specs.

- Feed-water system direct to Steam Generator
- Continuous operation over 10,000 hours
- Bias terminals up to 60 pcs.
- Terminals for high resistance measurement

** The values in the above specifications are those under the conditions of normal ambient temperature and vacancy of the chamber. The specifications and the appearance of the equipment are subject to change for improvement.