



Humidity & Temperature Cycling Chamber



Haida International Equipment

– Environment Test System

Don't guess before you test

Haida Test Chambers ...

The HD Series chambers from Haida provide the temperature cycling and humidity performance you need to validate quality and reliability for wide ranges of products such as electronics products, paper board , furniture and other products.



(Innovative high-speed airflow suited for fast temperature cycling applications.)

High standard performance and features Cycling Chambers.

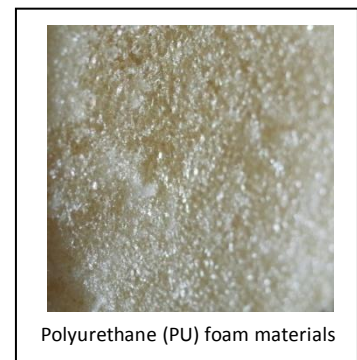
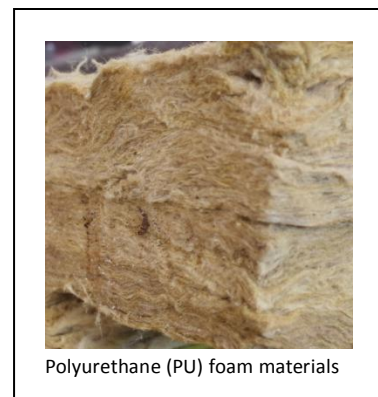
The HD series chambers have temperature change rates from 1 to 3°C per minute in average and controlled humidity from 10% to 95%. There are 6 sizes with interior volumes of 100 to 1000 Liters or we also provide tailor-made chambers of size. On the advance model for Cycling Chambers have temperature change rates from 3 to 15 °C, controlled humidity from 10 to 95%.

International applications

HD series chambers meet international test performance standards. The units can be installed around the world for consistent testing at different facilities, supported by Haida Group and our cooperation prater in Australia, Dubai, India, Malaysia, Turkey and Vietnam. And our chambers feature two levels of overheat protection, and one levels of overcool protection. The system controller provides alarm messages with specific troubleshooting help to quickly resume testing.

Standard features:

- Stainless# 304 steel for interior
- Paint steel for exterior
- Foam-insulated door for rigidity and long life
- Plastic water tank easy for maintenance
- Observation Window with frost free function
- High performance refrigeration system
- Easy user interface for PLC controller
- One 100mm cable port/ Customer specified
- One shelve, 10 Kg loading & 4 casters included
- Vane Type Sirocco, L134, Fan
- PID controlled-Stainless Steel Humidifier
- DuPont R-404A [No Fluorine] Refrigerant / 23 for below -40 °C
- USB port for data output (optional)
- Anti-explosive interior lamps
- Data logging chart recorders, paperless recorders stored data in the PLC. (Optional)

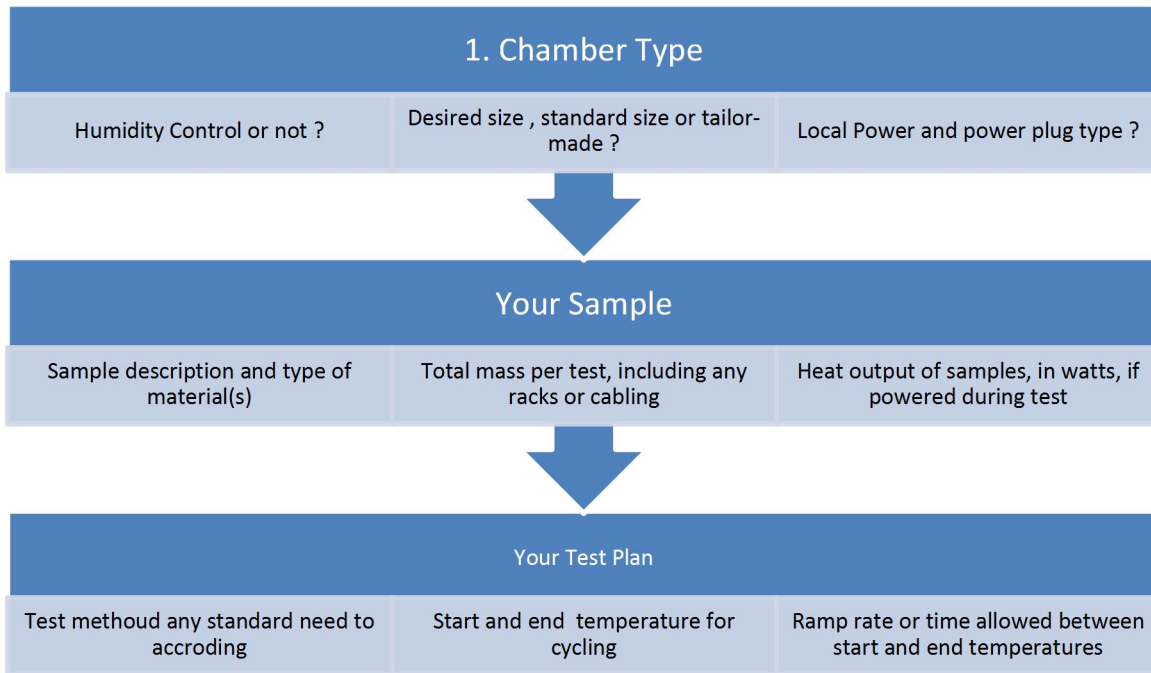


Get a performance evaluation to help provide the suitable chambers to you.

For better assurance of performance for your temperature and humidity cycling application, Haida can provide a guaranteed performance calculation based on your submitted requirements.

Please use these questions as below as a guide to define your test plan. You can then give this information to our lab consultant or email to us, for review by our lab consultant. A recommended model with appropriate refrigeration size will be provided to you.

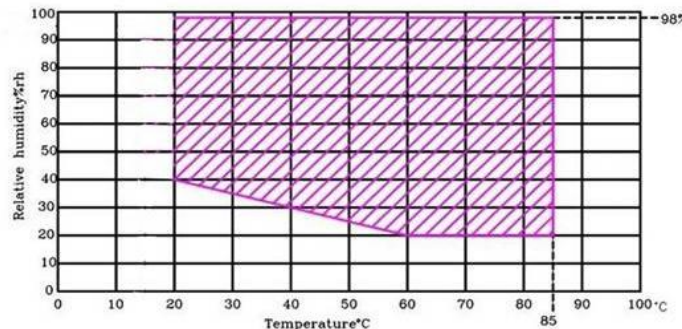
Questions for performance evolution request:



System & Performance Options

- Low and Ultra-Low Humidity Extends the humidity control range. (Normal Humidity Range Diagramed)
- Water-cooling system.
- Dry Air Purge keeps moisture in the chamber extremely low by purging with -40 °C. Compressed air supply required
- Additional shelves, 50 Kg loading
- Cable ports with flexible silicone plug, 50 , 100, 150mm or customer specific diameters

20%--95%



(Normal Humidity Range Diagramed)

Range – 70 to 150°C

Temp/Humidity	HD-E702-100-7	HD-E702-150-7	HD-E702-225-7
Model	HD-E702-408-7	HD-E702-800-7	HD-E702-1000-7
Temp-only	HD-E702-100T-7	HD-E702-150T-7	HD-E702-225T-7
Model	HD-E702-408T-7	HD-E702-800T-7	HD-E702-1000T-7
Temperature Range:	-70°C ~ 150°C		
Cooling Capacity	~ 2.5 kW at -50°C	~ 3 kW at -50°C	~ 5 kW at -50°C
	~ 6.5 kW at -50°C	~ 8.5 kW at -50°C	~ 9 kW at -50°C
Heating System	~ 5 kW	~ 5 kW	~ 5.5 kW
	~6.5 kW	~ 8.5 kW	~ 9 kW
Temperature Fluctuation:	±0.5°C		
Temperature Gradient:	±0.5°C ~ ±0.2°C		
Heating Rate†:	≥3°C / min average (Advance model 5 – 15 °C / min)		
Cooling Rate†:	≥1°C / min average (Advance model 5 - 15°C / min)		
Humidity Range:	10% ~ 95% RH (Ref to Normal Humidity Range Diagramed)		
Humidity Fluctuation:	±1.5% RH ~ ±2.0% RH		
Humidity Gradient:	±3% RH		
Dimensions			
Workspace dimensions (WxDxH)mm:	500x400x500 HD-E702-100	600x500x500 HD-E702-150	750x500x600 HD-E702-225
	850x650x800 HD-E702-408	1000x1000x800 HD-E702-800	1000x1000x1000 HD-E702-1000
Exterior dimensions (WxDxH)mm:	1400x850x1050	1500x950x1050	1650x950x1150
	1750x1050x1350	1900x1450x1350	1900x1450x1550
Site Requirements			
Electrical Supply:	208V 3Ø 60Hz or 230V 3Ø 60Hz (customer specific)		
Humidity Water	Distilled water		

Condensate Drain:

1/2" hose connection (gravity drain)

Range – 40 to 150°C

Temp/Humidity	HD-E702-100-4	HD-E702-150-4	HD-E702-225-4
	HD-E702-408-4	HD-E702-800-4	HD-E702-1000-4
Temp-only	HD-E702-100T-4	HD-E702-150T-4	HD-E702-225T-4
	HD-E702-408T-4	HD-E702-800T-4	HD-E702-1000T-4
Temperature Range:	-40°C ~ 150°C		
Cooling Capacity	~ 2 kW at -20°C	~ 2.5 kW at -20°C	~ 4.5 kW at -20°C
	~ 5.5 kW at -20°C	~ 8 kW at -20°C	~ 8.5 kW at -20°C
Heating System	~ 5 kW	~ 5 kW	~ 5.5 kW
	~6.5 kW	~ 8.5 kW	~ 9 kW
Temperature Fluctuation:	±0.5°C		
Temperature Gradient:	±0.5°C ~ ±0.2°C		
Heating Rate†:	≥3°C / min average (Advance model 5 – 15 °C / min)		
Cooling Rate†:	≥1°C / min average (Advance model 5 - 15°C / min)		
Humidity Range:	10% ~ 95%RH (Ref to Normal Humidity Range Diagramed)		
Humidity Fluctuation:	±1.5%RH ~ ±2.0%RH		
Humidity Gradient:	±3%RH		
Dimensions			
Workspace dimensions (WxDxH)mm:	500x400x500 HD-E702-100	600x500x500 HD-E702-150	750x500x600 HD-E702-225
	850x650x800 HD-E702-800	1000x1000x800 HD-E702-800	1000x1000x1000 HD-E702-1000
Exterior dimensions (WxDxH)mm:	1400x850x1050	1500x950x1050	1650x950x1150

	1750x1050x1350	1900x1450x1350	1900x1450x1550
Site Requirements			
Electrical Supply:	208V 3Ø 60Hz or 230V 3Ø 60Hz (customer specific)		
Humidity Water	Distilled Water		
Condensate Drain:	1/2" hose connection (gravity drain)		

How to Contact Us?

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HAIDA Vision:

To be the most vitality and respectful team !

HAIDA Mission:

Become Your Lab Consultant!