

Temperature and Humidity Cabinets, Weiss C Series



The C series Temperature and Humidity Chambers by Weiss enable users to control a wide range of temperature and humidity conditions at the push of a button. These chambers are robust and provide precise temperature and humidity control even when under large test space loads.

The external bodywork is constructed of zinc coated steel, with a powder coated finish. All models have a vapour tight welded stainless steel chamber with support brackets to allow for shelves to be fitted at various heights (one shelf supplied standard). Double emission-free silicon gaskets are used with a self tensioning lock to provide an effective seal between the door and inner chamber. Minimal heat loss by compact mineral wool which insulates the chamber from the outside conditions.

The front opening door provides full access to the chamber and also allows for easy viewing inside with a multilayered heated front window combined with an internal light. A secure door locking system ensures the door is safely closed during operation.

Port holes are available on four sides of the chamber to allow easy access within the chamber or to insert testing probes for external monitoring. All models feature one 50mm port hole in the left and one 125mm port hole in the right hand side of the chamber.

These chambers feature an easy to use colour touch panel which gives users total control over the test conditions. On screen symbols and guides make changes and adjustments quick and easy. A selection of international testing standards are also pre-programmed into the system for use.

Controller Highlights:

- Height adjustable touch panel
- Storage of 100 programs, each with 1000 program steps
- Tolerance band monitoring
- TCP/IP and RS-323 interface
- Specimen protection system with separate sensor



Easy to use colour touch panel.

The SIMCON/32 system used on these chambers not only offers accurate control, but also monitors all internal functions during operation. If needed, the system will take protective action in favour of the operator and test chamber to avoid any potential failures.

Precise temperature control is provided by an air-handling compartment at the rear of the chamber. The circulating air is cooled while flowing over a patented heat exchanger. The air is then heated by electrical resistance heaters to ensure the set temperature within the chamber is reached in the shortest possible time.

The inbuilt psychrometric measurement system provides rapid humidity control by heating a humidification water bath. To help prevent loss of water, these chambers are fitted with a reservoir and low water level sensor which will automatically refill the water bath should the water level get to low. A dehumidifying coil is fitted to prevent condensation on the test samples.

The optional SIMPATI software allows for easy archiving on to Excel and various Microsoft word processors. The SIMPATI software also enables monitoring of up to 99 test chambers via RS-485 or TCP/IP networking. This software runs on all recent MS operating systems including Vista.



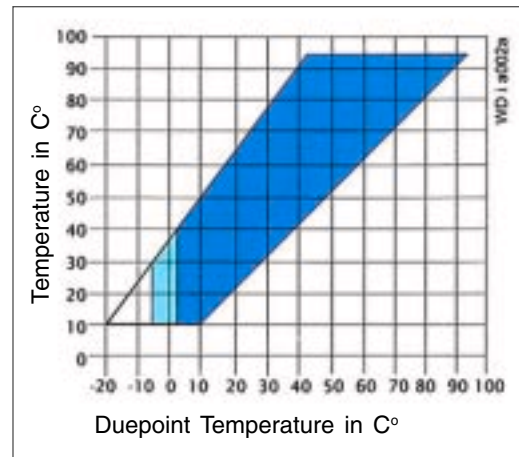
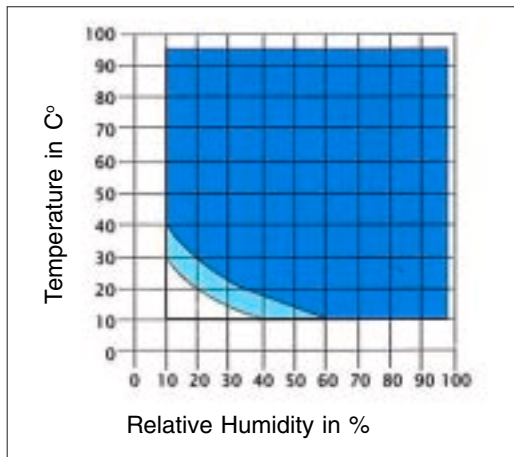
Clean and simple chamber design with rear air circulation and adjustable shelves.

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Optional Extras

- SIMPATI software for Windows.
- Measuring data acquisition system for PT100 and voltage systems
- Additional shelves and additional port holes of 50mm, 80mm and 125mm in size.
- Compressed air dryer
- Water bath cleaning device
- Nitrogen purging system
- Water cooled refrigeration system

Temperature and Humidity Control Envelopes



Model	C 180, -40	C 340, -40 C 340, -70	C 600, -40 C 600, -70	C 1000, -40 C 1000, -70	C 1500, -40 C 1500, -70
Chamber Design					
Volume	190L	335L	600L	990L	1540L
Useable Dims. (HxWxD)	740x580x450mm	750x580x765mm	950x800x800mm	950x1100x950mm	950x1100x1475mm
Chamber Dims. (HxWxD)	1780x870x1475mm	1780x870x1790mm	1980x1090x1845mm	1980x1390x1995mm	1980x1390x2520mm
Test Parameters (Temperature)					
Min. Temp.	-40°C	-40°C	-70°C	-40°C	-70°C
Max. Temp.	+180°C				
Heating Gradient	4.0 K/min	3.2 K/min	3.0 K/min	4.0 K/min	4.0 K/min
Cooling Gradient	3.5 K/min	3.5 K/min	2.7 K/min	3.0 K/min	2.5 K/min
Temp. Fluctuation	±0.1K to ±0.5K (in time)				
Temp. Deviation	±0.5K to ±2.0K (in space)				
Max. Heat Comp.	2000W	2000W	1500W	2500W	2000W
Calibrated Values	+23°C and +80°C				
Test Parameters (Humidity)					
Temp. Range	+10°C and +95°C				
Humidity Range	10 to 98 % R.H.				
Dew Point Range	-3°C and +94°C				
Humidity Fluctuation	±1 to ±3 (in time)				
Temp. Fluctuation	±0.1 to ±0.3 (in time)				
Temp. Deviation	±0.5 to ±1.0 (in space)				
Max. Heat Comp.	400W				
Calibrated Values	23/50°C and 95/50°C				
Supplies and Connections					
Nominal Voltage	AC 400V / 50Hz				
Max. Nominal Power	3.5KW	3.5KW	4.4KW	7.8KW	9.1KW
Chamber Weight	425kg	475kg	520kg	610kg	675kg
Condenser	Air cooled				