

TV/CV ENCEINTES SUR POT VIBRANT

let's make your life easier



De -70°C à +180°C



De 0,5°C/min. à 35°C/min.



Avec ou sans contrôle
en humidité



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The Version CV Climatic Chamber from CTS is a high-performance environmental testing solution designed to replicate extreme temperature and humidity conditions. It caters to industries like automotive, aerospace, and electronics, offering precise control and reliability for testing the durability and performance of materials and components under varying environmental stresses. With customizable sizes and advanced features like vibrating pot compatibility, the Version CV ensures accurate, energy-efficient testing for a wide range of applications.

The advantages



Four volumes available
400, 700 , 1100 & 2300 liters



Air mixing up to
/ 2400m³ h, promoting
thermal exchanges with
the samples being tested



Excellent
spatial homogeneity
in temperature & humidity



Connectivity **between** our equipment
(LabView protocol, ASCII control,
Ethernet interface, USB port on the front, etc.)



Industrial computing environment
without embedded PC



Remote **technical diagnostic** assistance



ISO 14001 & ISO 9001 standardized manufacturing



Optimized operation for **reduced energy**
consumption



Proven components
available from **stock**

Technical details

The following are offered as standard on volumes from 700 to 2300 litres:

- › Removable floor for vertical pot with passage diameter to be specified according to the characteristics of the vibrator
- › Adaptable membrane on thermal barrier
- › 2 cable passages Ø125mm (right and left)
- › 2 door notches (100 x 70 mm) (right and left)
- › Porthole on door
- › Color LCD Touch Programmer Regulator, integrated on the door with online help.
- › Display errors and diagnostics in text
- › Buttons assigned to basic operations: manual and program start, stop, light, etc.
- › Overtemperature safety: machine protection according to EN 14597 (thermal fuse)
- › Free contact for fault retransmission
- › RS 232 + Ethernet interface
- › 2 digital outputs free of any potential to control the test sample (ON/OFF)
- › Max/min temperature safety integrated into the regulator
- › Low noise intensity of the refrigeration unit
- › Energy-efficient operation

Possible variations

- › Fixed position configuration enclosure (configurable height)
- › Mobile configuration enclosure (configurable height)
- › Height-adjustable mobile volume speaker
- › CO₂ refrigeration technology

Humidity regulation by dew bath.

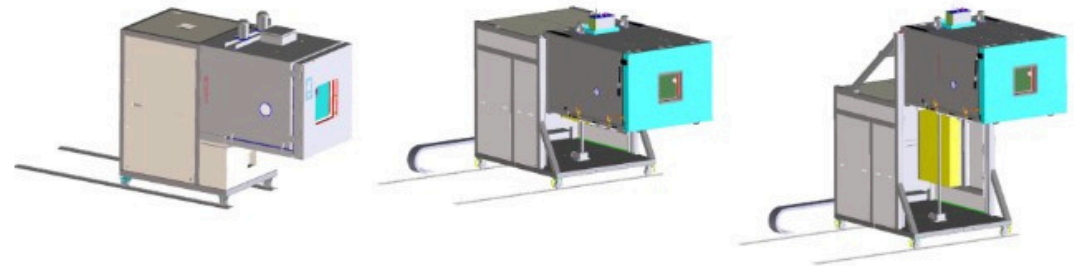
The "CV" model climatic chambers are suitable for operation while the useful volume is connected by a set of double-skinned membranes to a vibrating pot.

The application of the chamber on a vibrating pot makes it possible to combine the action of temperature, humidity and vibrations on materials, components and finished products.

We offer a range of speakers that are available according to several criteria:

- › Without humidity control (thermal version "TV") or with humidity control (climatic version "CV")
- › Version suitable only for vertical vibrating pot, or suitable for vertical and horizontal vibrating pot (vibration table).
- › Depending on the customer's usage mode:
- › Fixed height or height-adjustable volume
- › Fixed equipment on the ground or with rail transfer (from left to right or from front to back).

Below we present you with different possible constructions.



The climatic chambers for vibrating pots model "CV" allow temperature and humidity tests to be carried out, either to regulate stabilized climatic conditions over long periods, or to regulate climatic cycles in hot, cold and humid climatic environments.

These enclosures integrate in most cases, a dew bath tank within their useful volume. The capacity of the dew bath tank varies according to the useful volume of the enclosure but it contains approximately two liters of water.

When we want to obtain in the useful volume of the enclosure an air temperature between +10°C and +95°C, and a hygrometry between +10% and 95%, the climatic enclosure will regulate the temperature of the water present in the dew bath tank to the temperature corresponding to the dew point of the selected *air temperature / humidity* setpoint pair .



Several options can be proposed...

The list of options described below is not limited, so do not hesitate to contact us if you would like more information on what can be offered in addition to your future testing facility.

- › Function: useful volume adjustable in height
- › Additional sole with or without passage for pot or vibrating table
- › Full sole for use of equipment in classic mode
- › Reverse door opening
- › Extended temperature range to +200°C
- › Air dryer
- › Additional partition passages
- › Ø50/80/125/150mm
- › Logical input output cards
- › Analog input output cards
- › Independent adjustable overtemperature safety
- › Acquisition and supervision software
- › Drivers for LabView software
- › RAL colours on specification
- › Liquid Nitrogen Injection (Inerting or Cryogenics)
- › ...



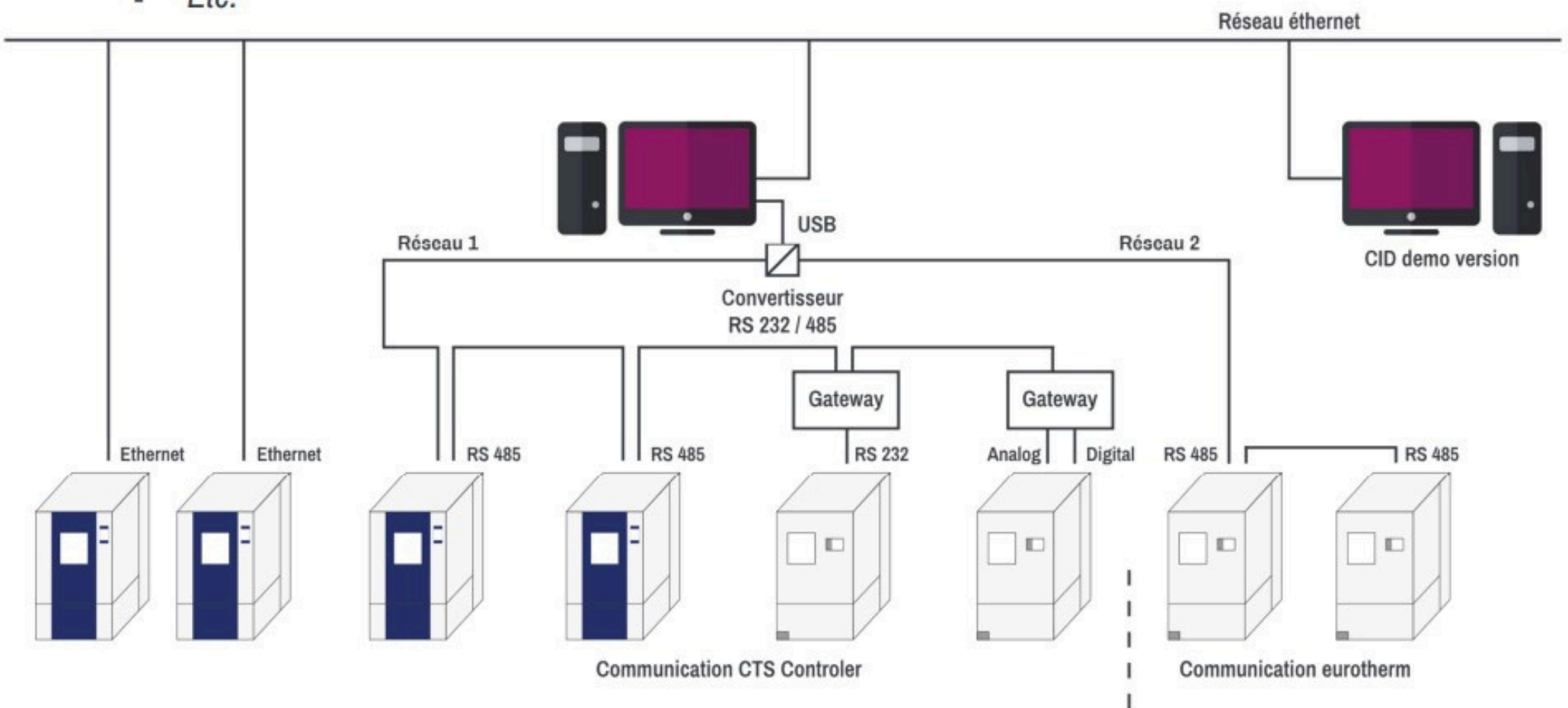
For CV Models - Common Humidity Specifications

Temperature stability	$\leq \pm 0.3^{\circ}\text{C}$
HR humidity range	From 10% to 98% over a temperature range of +10°C to +95°C
Dew point range	+5°C à +88°C
Moisture stability	$\leq \pm 1,5\%$

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Simple, intuitive and communicative

- Fonction Client/Serveur
- Diagnostic à distance & reporting fonctionnel
- Application universelle sur base LabView
- Ouvert sur :
 - ModBus
 - Eurotherm
 - Simcon
 - Etc.



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