



REACH-IN ENVIRONMENTAL TEST CHAMBERS

—
PRODUCT CATALOGUE



Good
engineering is a
pre-requisite for
reliability

CME, or CM Envirosystems, is a leading engineering company specializing in environmental simulation testing technology. Based in Bengaluru, Karnataka, India, it is one of the fastest-growing manufacturers of environmental test chambers globally. Founded in 1981 by Dr. Jacob Crasta, the company designs and produces a wide range of testing equipment used to simulate real-world environmental conditions such as temperature, humidity, pressure, rain, dust, and corrosion. These chambers help ensure the reliability and durability of products across industries like aerospace, automotive, electronics, defense, and renewable energy.

PRESENCE

EUROPE

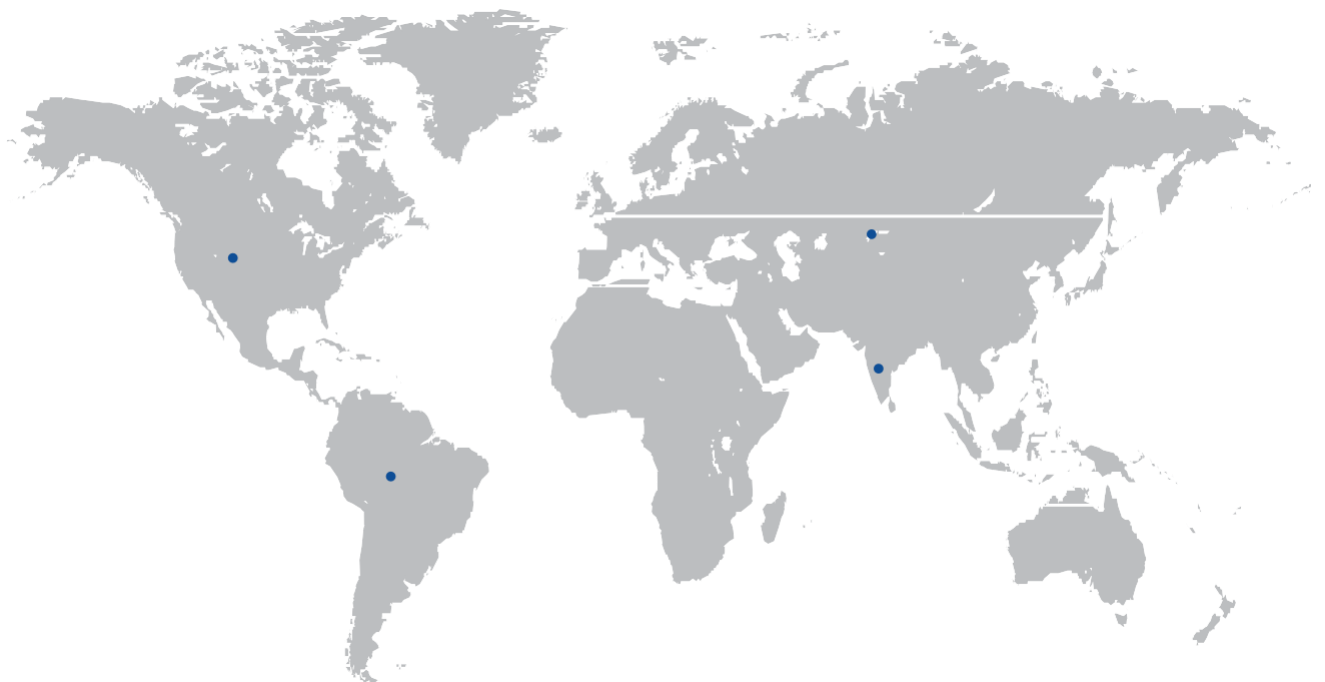
Hungary
Poland
Russia
Turkey
UK

ASIA

India
Indonesia
Iran
Singapore
Thailand
Vietnam
UAE

NORTH AMERICA

Mexico
USA



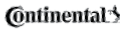
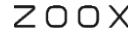
OUR INFRASTRUCTURE & FACILITIES

Spread over 18,500 sqmtr a state-of-the-art manufacturing facility is a green building with over 40% of green cover, making the work atmosphere stress-free, efficient and productive.



THEY TRUST US



REACH-IN ENVIRONMENTAL TEST CHAMBER

The PAC series of climatic chambers are a great choice for cyclic low, high temperature and humidity tests. Built with the highest quality and reliability, this chamber can meet the most stringent testing needs of various international standards such as ASTM, IEC, MIL, DIN, etc.



MODELS

Models		PAC 120	PAC 225	PAC 380	PAC 540	PAC 1000	PAC 1500
Test Space Volume (Ltr)		120 / 4.2	225 / 8	380 / 13.4	540 / 19	1000 / 35	1500 / 53
Temperature Range (°C)	A	-40 to +180 -40 to +356	-40 to +180 -40 to +356	-40 to +180 -40 to +356	-40 to +180 -40 to +356	-40 to +180 -40 to +356	-40 to +180 -40 to +356
	B	-70 to +180 -94 to +356	-70 to +180 -94 to +356	-70 to +180 -94 to +356	-70 to +180 -94 to +356	-70 to +180 -94 to +356	-70 to +180 -94 to +356
Ramp rate** (°C/min)		3/5/6/8/10/12/15/20/25 as per IEC 60068-3-5					

**Customized ramp rates are also available

ENVICOM SMART CONTROL



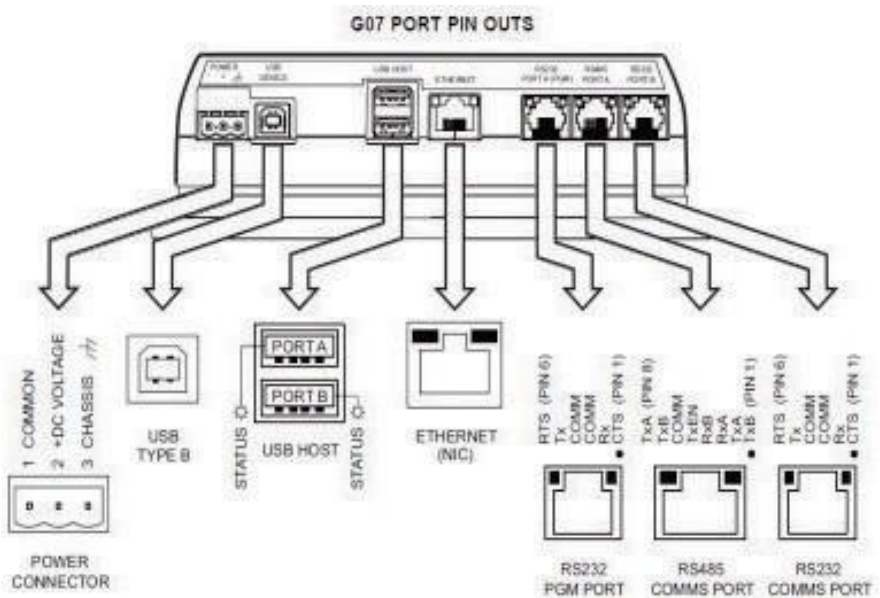
Screen Sizes & Resolutions

Resolutions available from 800 x 480 to 1280 x 800



Security - User Level Rights

Protect your test data from being misused.
USER - Access to create and run test program.
ADMIN - Access to settings & other configurations.
FACTORY - Restricted to only authorised service personnel.



Versatile Communication

Connect USB drive to download information.
On-board 2GB SDcard to store multiple test programs.
Ethernet port for internet access to your chamber.
RS232, RS485, for integration with third party software such as NI/Labview®.

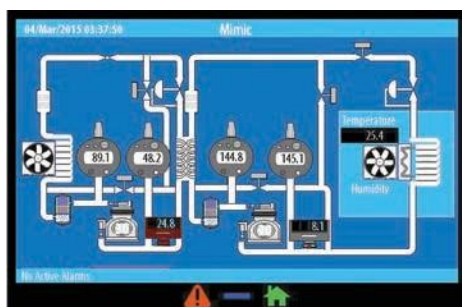


Chamber Analytics with Pro-active Support

Diagnostic information will be synchronized to a FTP server. The user can access chamber analytic information such as:

- Power consumption
- Chamber usage
- Refrigeration system health
- Alarm history

This information is available on www.cmenvirosystems.com with a unique user ID & password.



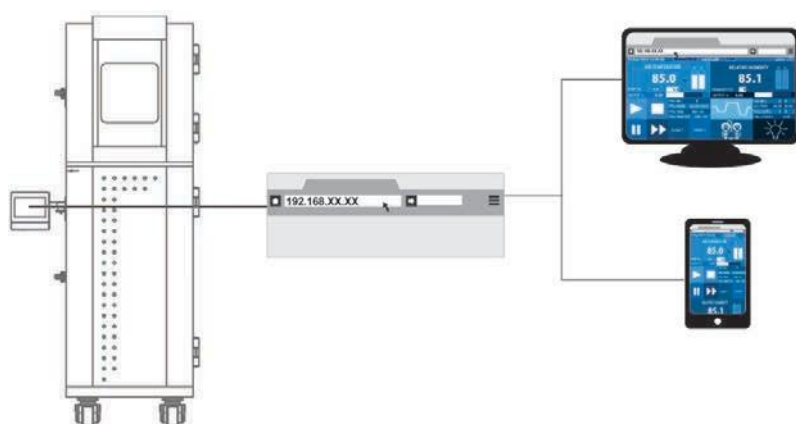
Diagnostic

All critical parameters of the chamber such as suction pressure, discharge pressure, return gas temperature are monitored & displayed in the process Mimic.



Email & SMS

Automatic email of test program. SMS of diagnostic information such as power failure, Specimen over temperature etc.



Web Enabled Controller

No software required to remote control & monitor the chamber. Just use your favorite web browser such as Google Chrome, Firefox & IE.



1

Chamber Analytic

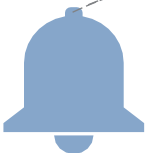
Analyse data from controller such as
Power Consumption, Chamber Usage, Refrigeration System, Compressor Health



2

Trigger Alarm

If there is any risk of potential failure from the analysed data then CME is notified.



3

Initiate Proactive Support

As we get notified of the potential failure, the support process is initiated.
Self Diagnosis, Online Support & On-site Support.



Self Diagnosis

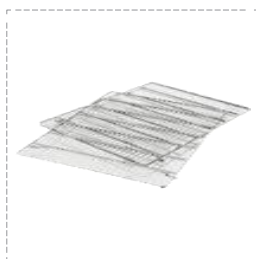


Online Support



On-site Support.

OPTIONAL ACCESSORIES



STAINLESS STEEL SHELF

Additional adjustable stainless steel mesh type shelf for distribution of test samples within the basket



ENVICOM CONTROLLER SCREEN

9" WVGA 800 x 480 LCD color touch screen

ENVICOM CONTROLLER SCREEN

12" WXGA 1280 x 800 LCD color touch screen

ENVICOM CONTROLLER SCREEN

15" XGA 1024 x 768 LCD color touch screen



DESICCANT AIR DRYER

The compact dehumidifier removes moisture through a process of continuous "physical adsorption".



GN2 PURGE

For operation with an on-site compressed air dryer or for the insert of an inert gas.



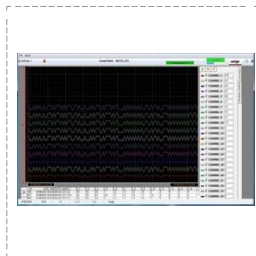
6 CHANNEL DATA LOGGER

RTD 6 module will be provided, to simultaneously monitor 6 temperature points. These RTD Pt-100 will be placed inside the test chamber. Note: A maximum for 4 such RTD 6 modules can be attached to one single chamber.



GPIB CONVERTOR

The existing Ethernet port will be port used to convert to GPIB. The convertor will be placed inside the control panel and the interface cable slot will be provided.



GRAPHICAL DATA-LOGGING SOFTWARE

This software is used to monitor and plot the stored csv data of multiple channels in graphical format. Live trend can also be plotted.



GPIB CABLE

Interface cable to the GPIB convertor



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