



WALK-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

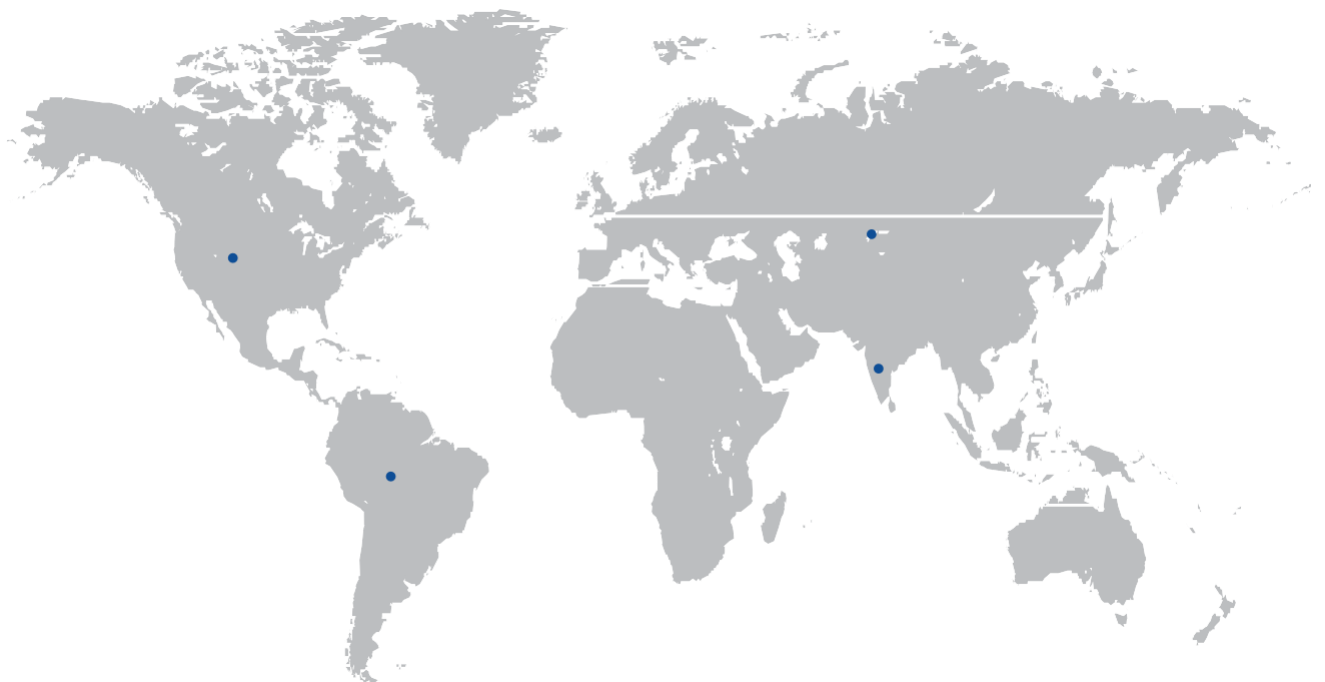
Hungary
Poland
Russia
Turkey
UK

ASIA

India
Indonesia
Iran
Singapore
Thailand
Vietnam
UAE

NORTH AMERICA

Mexico
USA



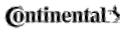
OUR INFRASTRUCTURE & FACILITIES

Spread over 12,000 sqmtr a state-of-the-art manufacturing facility is a green building with over 20% of green cover, making the work atmosphere stress-free, efficient and productive.



THEY TRUST US

SAMSUNG	<i>Danfoss</i>	TATA POWER SOLAR	ABB	adani Solar	BAJAJ	BLUE STAR	Crompton
EMERSON	FESTO	flex		:hager	HAVELLS	HCL	Honeywell
JABIL		KAYNES TECHNOLOGY	Landis Gyr+	LEMKEN			Parker
PHILIPS	Micron	SanDisk	Schneider Electric	SIEMENS	TE connectivity	WD Western Digital	First Solar.
 TÜVRheinland® Precisely Right.		HCL			 MITSUI & CO.	Intertek Valued Quality. Delivered.	
	SGS	ANECTO POWER ELECTRONICS		 WIPRO Applying Thought			

WALK-IN CHAMBER

CME's Modular Walk-In chamber offers unmatched flexible installation. The panelised construction is engineered to perform at demanding testing conditions offering highest reliability and performance.

Besides modular construction, we also offer Walk-In chamber made from welded rigid panels.

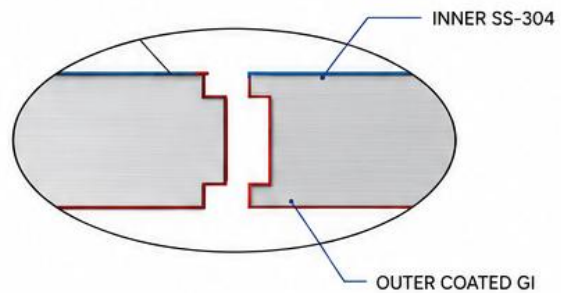


TYPES OF CONSTRUCTION

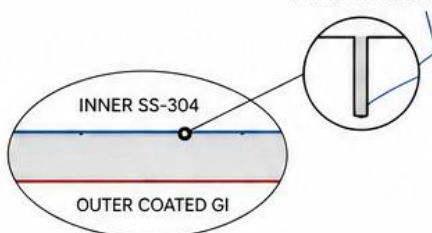


MODULAR CONSTRUCTION

In the modular construction the panels are prefabricated as per our standard size range. The panels are interlocked through tongue and groove assembly offering quick installation in a shorter period. The testing condition for such construction normally depends on temperature range to making it one of the most commonly used construction in automotive industry.



TIG WELDED JOINT



WELDED CONSTRUCTION

CME offers a different construction in its Walk-In Chamber. The panels are fabricated on site by welding it together forming a rigid structure which not only have the lowest heat loss but also are structurally so strong that it can withstand extreme environmental testing conditions.

TYPES OF FLOORING



STEP-IN FLOORING

The Walk-In chamber is built on an existing floor with insulation of 150 mm - 200 mm. Step-In flooring is ideal for those testing applications where the test specimen is light in weight and offer easy mobility in placing it inside the test space.



STEP-LESS FLOORING

For the whole vehicle testing or to conduct test on a heavier specimen, the Step Less flooring is used which offers easier driveability to the test space. The floor is made seamless by inserting wall panels which offers insulation from underneath.



DRIVE-IN CHAMBER

ENGINEERED FOR LARGE. BUILT TO PERFORM.

CME's Drive-In chambers are designed to test full-size vehicles, heavy equipment and oversized components under extreme environmental conditions.

With robust construction, uniform conditioning and customizable configurations, our Drive-In chambers deliver reliability, flexibility and performance – every time.



KEY FEATURES



LARGE VOLUME CAPACITY

Designed to accommodate vehicles and oversized specimens with ease.



WIDE TEMPERATURE RANGE

Capable of extreme low and high temperature conditions.



PRECISE HUMIDITY CONTROL

Uniform and stable humidity for accurate and repeatable results.



ROBUST CONSTRUCTION

High-strength panels and heavy-duty doors for long-lasting performance.



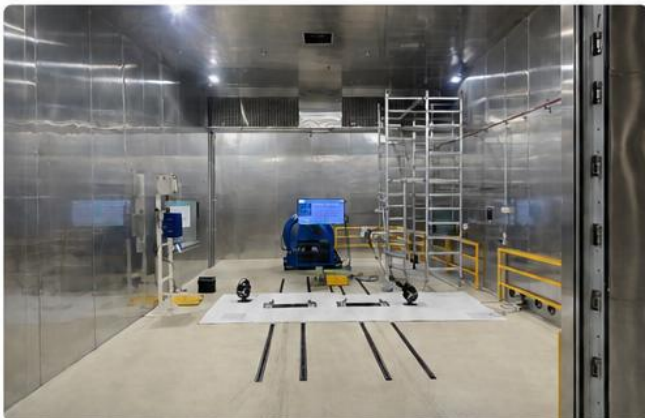
UNIFORM AIRFLOW

Engineered airflow design ensures excellent temperature uniformity.



CUSTOMIZABLE SOLUTIONS

Tailored to your test requirements, size and industry.



enviCoM 4.0 CONTROLLER

Advanced. Intelligent. Reliable.



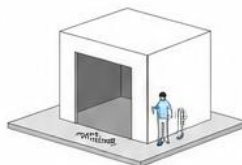
- 7" Full Touch Display
Intuitive & easy to use
- Multi-User Access
Role-based security
- Programmable Cycles
Advanced & customizable
- Data Logging
Secure & exportable
- Remote Connectivity
Monitor & control remotely
- Alarms & Notifications
Instant alerts & protection

TYPES OF FLOORING



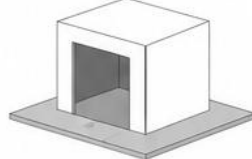
STEP-IN FLOORING

The Drive-In chamber is built on an existing floor with insulation of 150 mm – 200 mm. Step-in flooring is ideal for those testing applications where the test specimen is light in weight and offer easy mobility in placing it inside the test space.

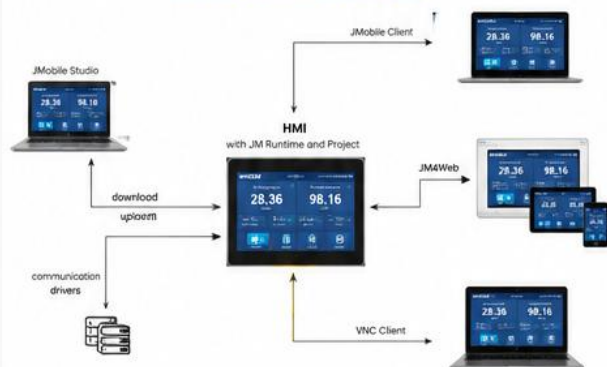


STEP-LESS FLOORING

For the whole vehicle testing or to conduct test on a heavier specimen, the Step Less flooring is used which offers easier driveability to the test space. The floor is made seamless by inserting wall panels which offers insulation from underneath.



CONNECTIVITY ECOSYSTEM



TYPICAL APPLICATIONS



AUTOMOTIVE TESTING



COMMERCIAL VEHICLE TESTING



BATTERY & EV TESTING



HEAVY EQUIPMENT TESTING



RAILWAY TESTING



AEROSPACE & DEFENCE TESTING

REFRIGERATOR TESTING

PRECISE CONDITIONS. RELIABLE RESULTS.

CME's Refrigerator Test Chambers are engineered to evaluate the performance, energy efficiency, durability and compliance of refrigerators under a wide range of real-world operating conditions.

With precise temperature and humidity control, uniform airflow and robust construction, our chambers ensure accurate, repeatable and standards-compliant testing – every time.



KEY FEATURES



PRECISE TEMPERATURE CONTROL

Wide temperature range with high accuracy for reliable test results.



HUMIDITY CONTROL

Accurate humidity regulation to simulate real-world conditions.



UNIFORM AIRFLOW

Engineered airflow ensures consistent conditions throughout the chamber.



ROBUST CONSTRUCTION

High-strength panels and heavy-duty doors for long-lasting performance.



ENERGY EFFICIENT

Optimized insulation and efficient systems for lower operating cost.



CUSTOMIZABLE SOLUTIONS

Configurable to meet specific test standards and customer needs.

OPTIMIZED TEST ENVIRONMENT



enviCoM 4.0 CONTROLLER

Advanced. Intelligent. Reliable.



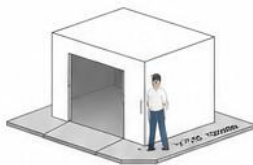
- 7" Full Touch Display
Intuitive & easy to use
- Multi-User Access
Role-based security
- Programmable Cycles
Advanced & customizable
- Data Logging
Secure & exportable
- Remote Connectivity
Monitor & control remotely
- Alarms & Notifications
Instant alerts & protection

TYPES OF FLOORING



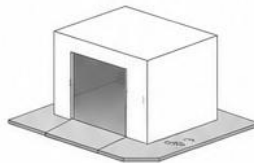
STEP-IN FLOORING

Built on an existing floor with insulation of 150 mm – 200 mm. Ideal for light in weight specimens and easy mobility inside the test space.

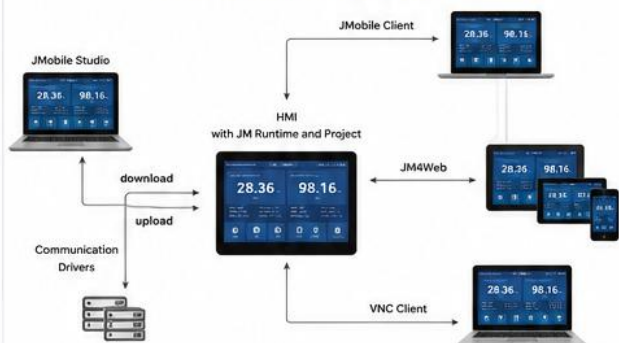


STEP-LESS FLOORING

Seamless flooring by inserting wall panels which offers insulation from underneath. Ideal for heavy specimens and easy drive-in.



CONNECTIVITY ECOSYSTEM



TYPICAL APPLICATIONS



DOMESTIC REFRIGERATORS



COMMERCIAL REFRIGERATORS



DISPLAY COOLERS



ICE CREAM FREEZERS



WINE COOLERS



MEDICAL REFRIGERATORS



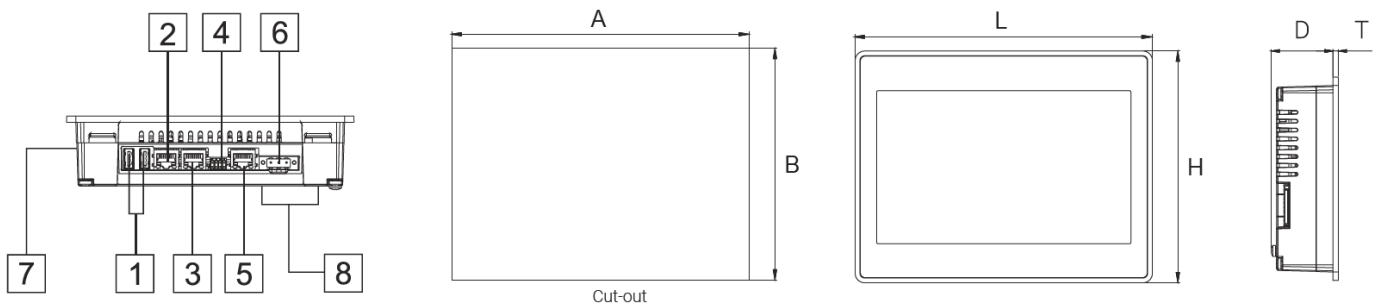
CUSTOM & SPECIAL APPLICATIONS

enviCoM™ 4.0

Open architecture control platform for connected environmental testing



- Industry 4.0 Product Concept
- HW and FW Optimised for Extremely Fast Operation
- System and Project Rapid Boot-Up
- OS Linux RT
- JMobile – the software that powers the X Platform
- CODESYS V3 with Ethernet I/O Stacks
- Multitouch and Gesturing
- Brilliant Display
- Wide Angle Visibility
- Beautiful 16,000,000 Colors
- Resistant to Scratches, UV and Chemicals
- Total Glass Design
- Network Separation possible via Up to 3 Ethernet
- Networks with different IP addresses
- Plug in Modules for System Expansion
- IECEx, ATEX, DNV-GL, UL certification: Ordinary and Class 1 Div 2

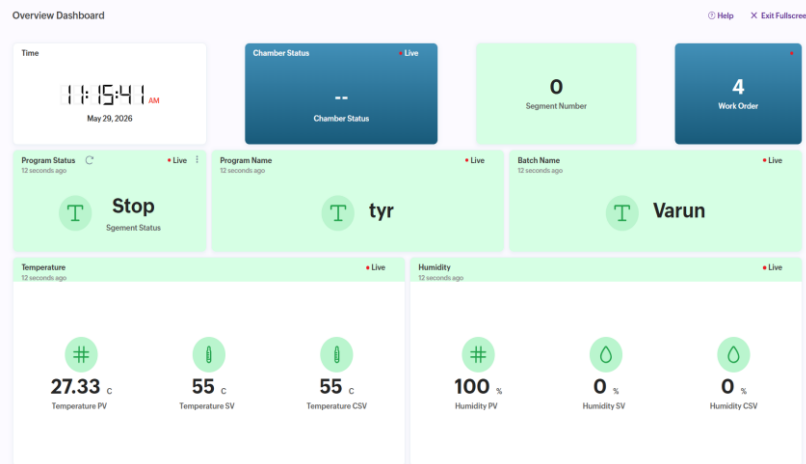


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|-------------------------------|--|
| 1 USB ports 1 and 2 | 5 Ethernet port 0 (10/100/1000 Mb) |
| 2 Ethernet port 2 (10/100 Mb) | 6 Power supply |
| 3 Ethernet port 1 (10/100 Mb) | 7 SD Card slot |
| 4 Serial port | 8 2 Expansion slots for plugin modules |

Ethernet port	3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)
USB port	2 (Host V2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial ports using plug-in modules.
SD card	Yes
Expansion	2 slot for plug in modules

Levito IOT:

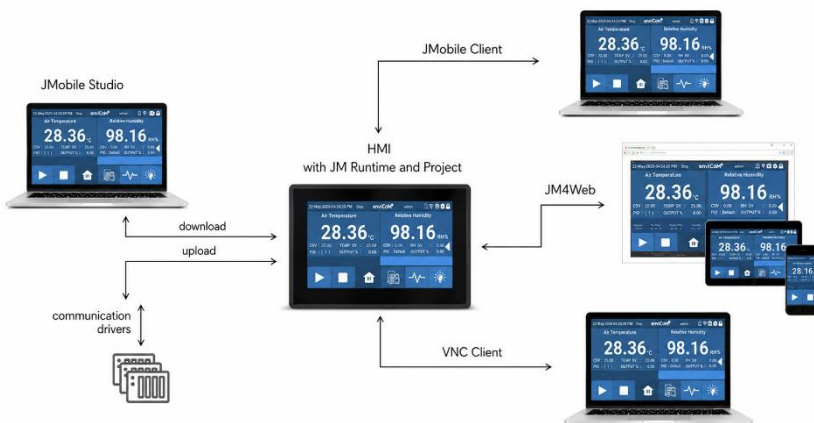
MQTT and IoT cloud layer for dashboards, alerts, and analytics



- MQTT broker enables IoT communication for industrial sensors and machines
- Levito IoT cloud provides real-time monitoring and remote visibility
- Dashboards track temperature, humidity, compressor status, and energy
- Alarm notifications, maintenance reminders, and cycle-end reports
- Cloud backup supports historical analysis and reporting

J-Mobile Remote Diagnostics & Support:

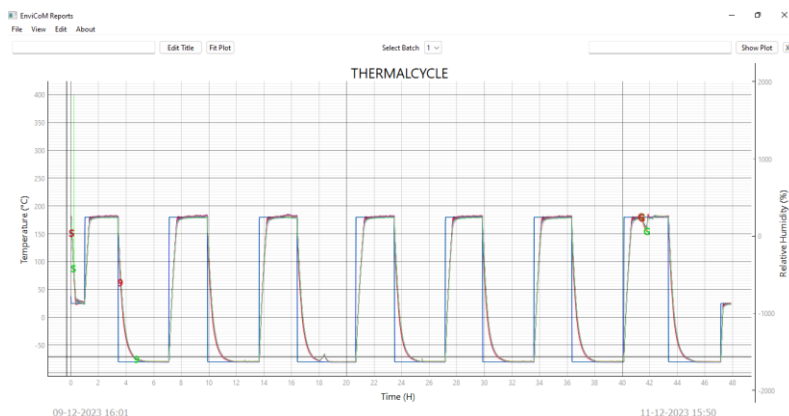
Mobile remote monitoring, notification, and troubleshooting support



- Monitor temperature, humidity, setpoints, and chamber status in real time
- Remote start/stop and basic operational control
- Alarm and event notifications for quick response
- Secure authentication with access-level management
- Remote diagnostics help reduce downtime and speed support

enviCoM™ 4.0 Reports

CSV-to-report workflow with graphs, alarms, events, and PDF output



- Convert CSV batch files into formatted reports
- Generate graphical test data representation with alarm codes
- Create PDF reports with test results and custom report fields
- Produce alarm, event, and historical data reports



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