North American Envirosystems

ENVIRONMENTAL TEST CHAMBER

4634 Orkney Drive, Missouri City 77459, Texas

North American Envirosystems

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 **(L / cu.ft)**		120 / 4.2	225 / 8.0	380 / 13.4	540 / 19.0	1000 / 35.0	1500 / 53.0
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

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REACH-IN ENVIRONMENTAL TEST CHAMBER

Thermal Insulation Suite
Ensures energy efficiency and uniformity

Heavy-Duty Door Latch
Ensures airtight sealing and safety

Refrigeration System
High-efficiency and environmentally optimized

Control & Power Panel
Safe, accessible, and operator-friendly layout

Locking Caster Wheels
For mobility and stable positioning

Digital Display
Real-time temperature & humidity monitoring

Inner Viewing Window
Heated, anti-fog glass for clear observation

Data Logger / Controller
Advanced control with programmable cycles

Stainless Steel Interior
Corrosion-resistant and easy to clean

INDUSTRY 4.0 READY
Future-ready intelligent control system

REMOTE DIAGNOSTICS
Quick support & troubleshooting

OPEN ARCHITECTURE
Seamless integration with third-party systems

SECURE CONNECTIVITY
Encrypted & secured communication

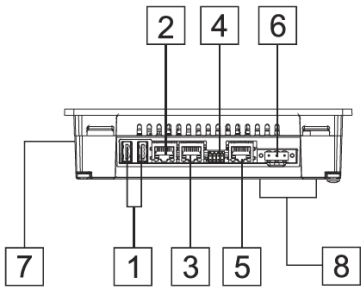
REAL-TIME MONITORING
Live data, trends & instant alerts

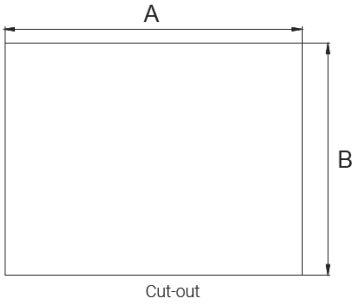
SCALABLE PLATFORM
Expandable to meet your future needs

enviCoM™ 4.0

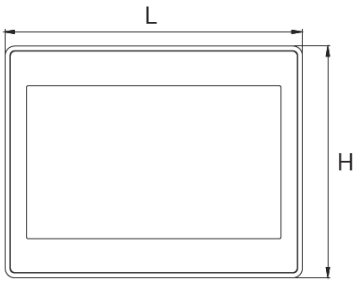
Open architecture control platform for connected environmental testing

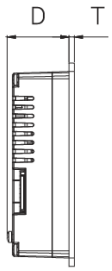
- Industry 4.0 Product Concept
- HW and FW Optimised for Extremely Fast Operation
- System and Project Rapid Boot-Up
- OS Linux RT
- JMobile – the software that powers the X Platform
- CODESYS V3 with Ethernet I/O Stacks
- Multitouch and Gesturing
- Brilliant Display
- Wide Angle Visibility
- Beautiful 16,000,000 Colors
- Resistant to Scratches, UV and Chemicals
- Total Glass Design
- Network Separation possibile 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





Cut-out



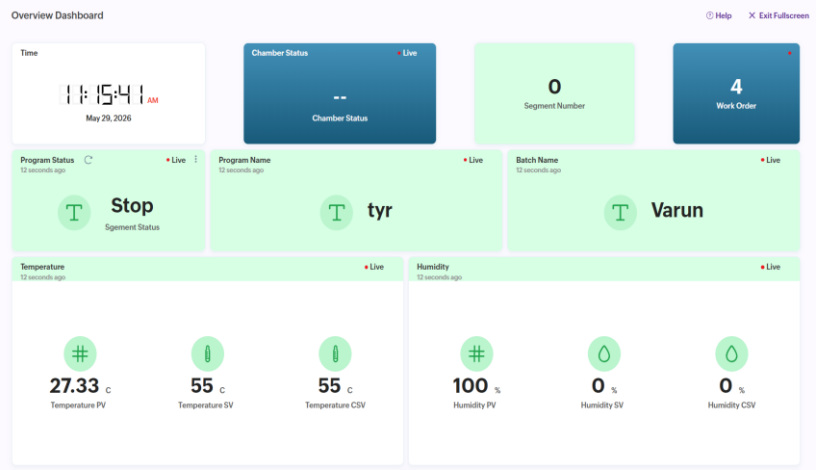


1 USB ports 1 and 2
2 Ethernet port 2 (10/100 Mb)
3 Ethernet port 1 (10/100 Mb)
4 Serial port
5 Ethernet port 0 (10/100/1000 Mb)
6 Power supply
7 SD Card slot
8 2 Expansion slots for plugin modules

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:

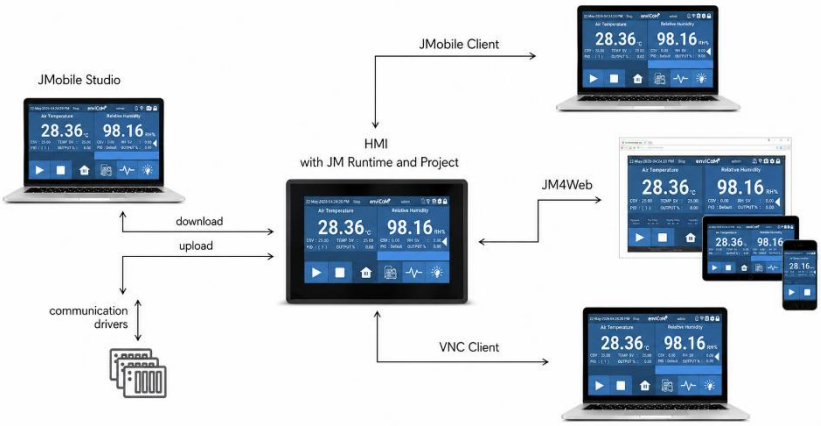
MQTT and IoT cloud layer for dashboards, alerts, and analytics



- 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:

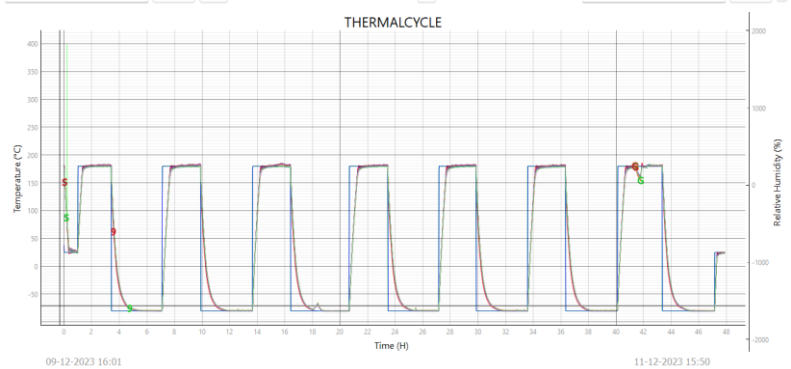
Mobile remote monitoring, notification, and troubleshooting support



- 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

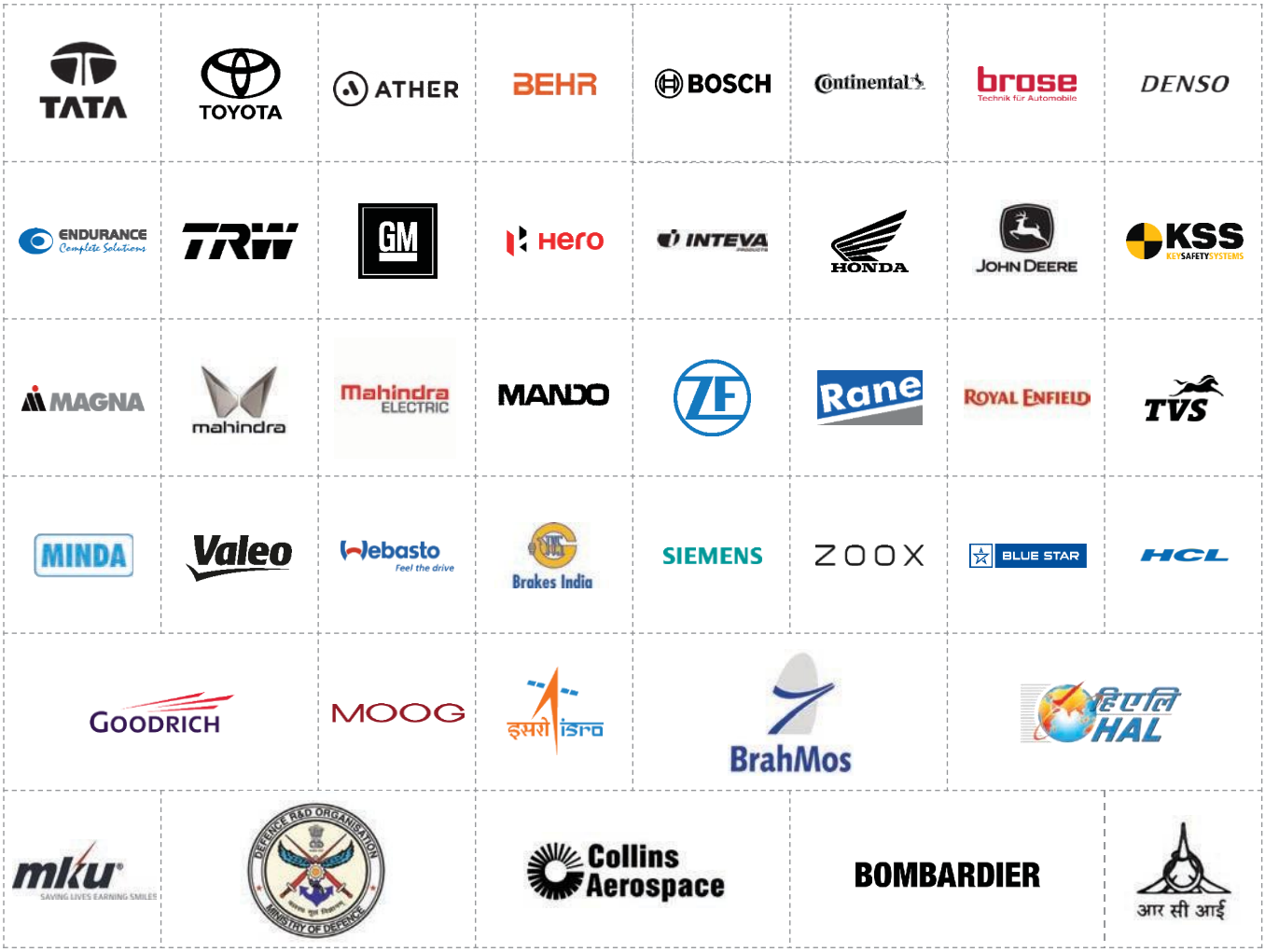
enviCoM ™ 4.0 Reports

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

THEY TRUST US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HAL
mku
SAVING LIVES EARNING SMILES
DEFENCE R&D ORGANISATION
MINISTRY OF DEFENCE
Collins Aerospace
BOMBARDIER
आर सी आई

PRESENCE

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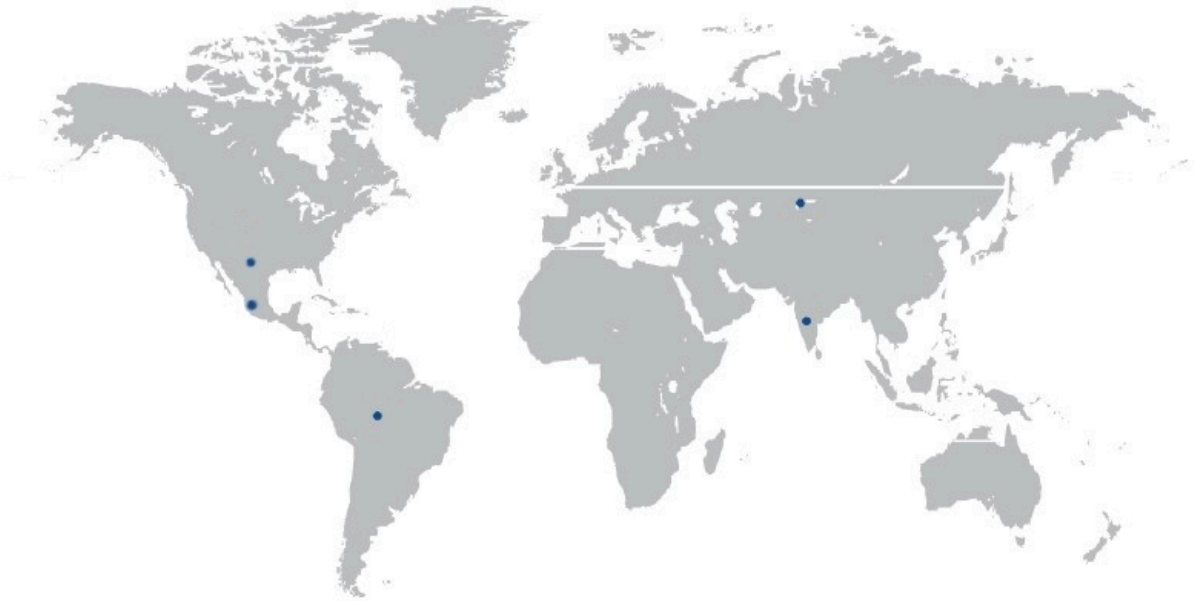
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