Xtreme Series

AUTO DRY CABINETS

DEHUMIDIFICATION CABINETS

2025 GLOBAL TECHNOLOGY AWARDS

Nominated for the **productronica** Innovation Award 2025



THE FASTEST DRY STORAGE CABINETS

For Drying & Baking Electronic Components



made in **INNOVATION**

emtelectronics.com

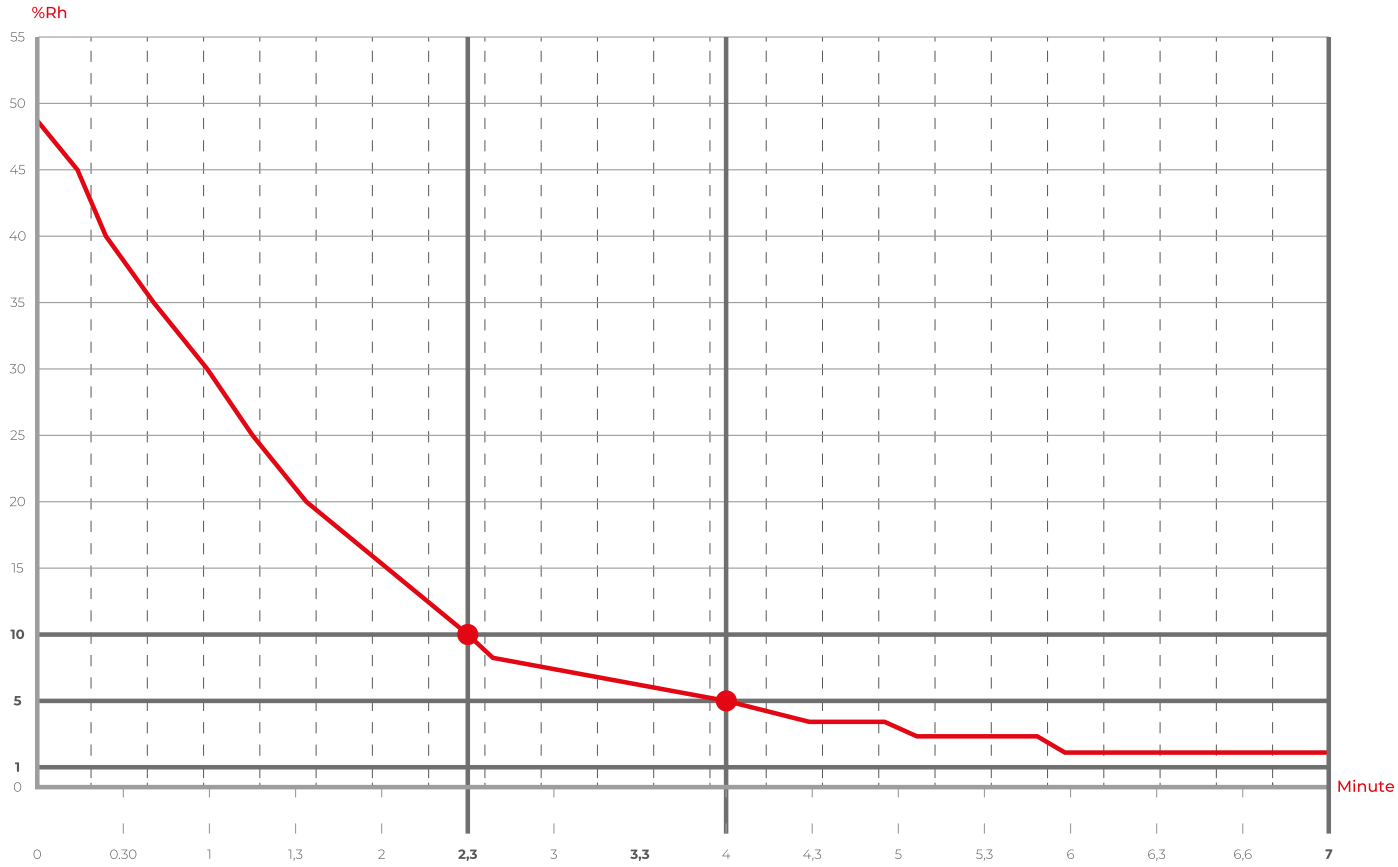
EMT ELECTRONICS

The Perfect Climate
for your Critical Components

Accuracy
±%0,3 RH / ±0,5 °C

Temperature
2°C, 15°C, 45°C, 60°C, 125°C

Humidity
%0,5 RH–%95 RH



From 50%Rh to 5%Rh
in under 4 minutes!

From 50%Rh to 1%Rh
in under 7 minutes!

*Performance may vary based on cabinet configuration and operating conditions.

THE FASTEST DRY STORAGE CABINETS

EVERY COMPONENT DESERVES PERFECT STORAGE

X-Treme Series Auto Dry Cabinets provide next-generation protection for moisture- and oxidation-sensitive materials.

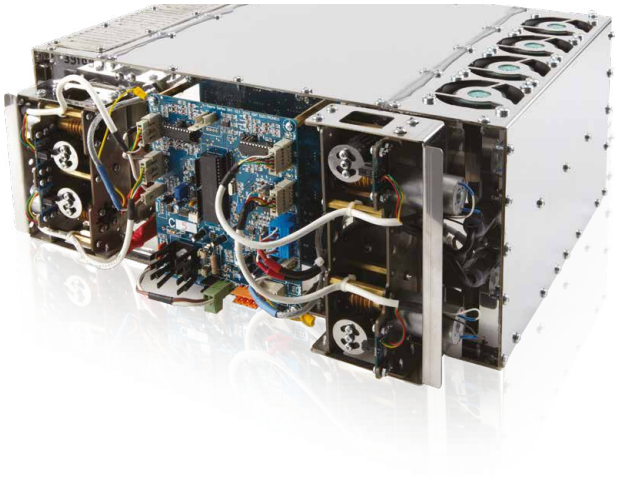
With plug-and-play simplicity, intelligent design, and energy-efficient operation, they safeguard critical components, cut operating costs, and keep workflows seamless.



DRYING METHODS

Auto Dry Cabinets (Dryer)

X-Treme Series Dry Cabinets deliver plug-and-play humidity control with zero setup or consumables. The proprietary dryer unit is maintenance-free, self-regenerating, and built to last the full lifetime of the cabinet. Optional dual dryers ensure continuous 24/7 performance with smart cycle switching.





Smart Nitrogen Cabinets (N_2)

Nitrogen's inert nature creates a stable, dry atmosphere that prevents corrosion and moisture absorption.

The Smart Nitrogen System efficiently maintains target humidity while minimizing gas use. Equipped with a nitrogen unit, the cabinets purge automatically until the desired humidity is reached. An optional O_2 sensor ensures precise control, allowing nitrogen purge to continue until the optimal O_2 level is achieved.

Hybrid Cabinets (Dryer + N_2)

Hybrid systems dynamically switch between nitrogen purging and dryer-based dehumidification. Once the target humidity is reached, nitrogen flow is automatically halted, and the dryer maintains the internal environment eliminating excess gas use.

Key Advantages:

- **Oxidation-free storage with reduced nitrogen use**
- **Smart switching for nonstop protection**
- **Lower costs and time-saving efficiency**
- **Perfect where speed and ultra-dry conditions matter.**
- **Optional oxygen (O_2) sensor**



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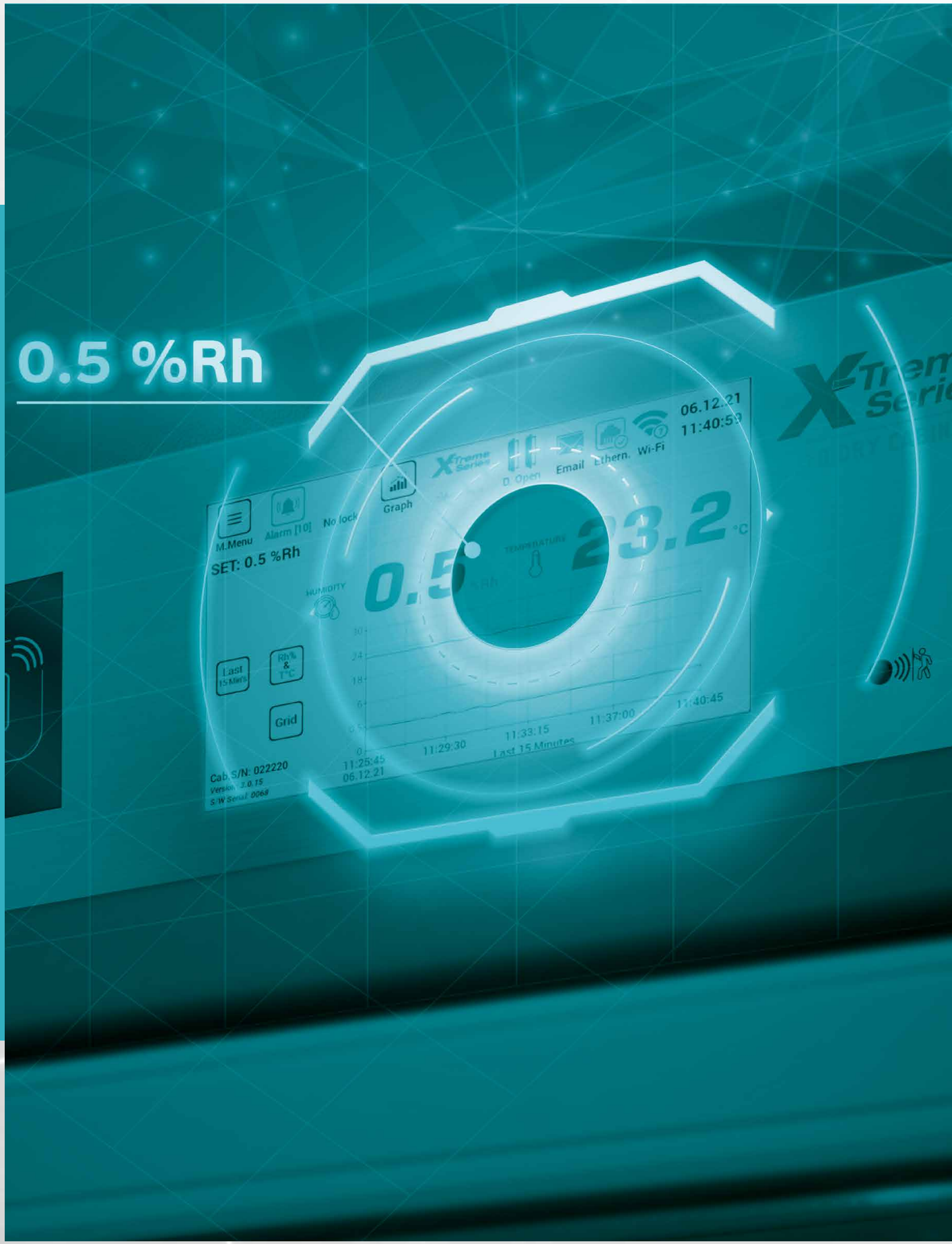
0.5 %Rh
M.Menu
Alarm [10]
No lock
Graph
Email
Ethern.
Wi-Fi
06.12.21
11:40:59
SET: 0.5 %Rh
HUMIDITY
TEMPERATURE
23.2
°C
Last 15 Min's
Rh% & T°C
Grid
Cab.S/N: 022220
11:25:45
06.12.21
11:29:30
11:33:15
11:37:00
Last 15 Minutes

HUMIDITY CONTROL

Humidity Management Redefined

Ultra-Fast Dehumidification
≤1% RH in under 7 minutes.

Ultra-Low Humidity Performance
Achieve humidity level as 0.5% Rh ideal for storing and protecting.

Homogeneous Airflow
A precision-engineered circulation system.

Built for Long-Term Stability
Engineered to perform for long years.

Continuous Dehumidification
Dual dryer units provide uninterrupted dehumidification.

Precision Humidification Control
Optional high-humidity settings up to 95% Rh.

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TEMPERATURE CONTROL

Advanced Temperature Management

Cooling and Heating Options:
Choose from 2°C, 15°C , 45°C, 60°C, or 125°C, supported by intelligent software that maintains consistent internal conditions with pinpoint accuracy.

Unmatched Sensor Precision
· Humidity Accuracy: ±0.3% RH
· Temperature Accuracy: ±0.5°C

High-Accuracy Environmental Control
X-Treme Series Auto Dry Cabinets provide a stable, precisely controlled environment with high-performance sensors and intelligent accessories for your most sensitive materials.

Ambient Condition Monitoring
Integrated internal and optional external sensors continuously measure and log humidity and temperature.


125°C
INTERNAL
TEMPERATURE
125
C/F
MIN
MAX
EMS

REAL-TIME MONITORING (RMS) & SECURE ACCESS

Monitoring & Control

Remote Monitoring & Alerts
With the Remote Monitoring System (RMS), you can monitor cabinet data. Automated email alerts notify you instantly when pre-set humidity or temperature thresholds are exceeded.

Power Consumption Monitoring
X-Treme Series Dry Cabinets can be equipped with advanced power monitoring hardware designed to track and optimize energy consumption in real time.

Automatic Door Locking System
Protect your inventory with automated door locks controlled via password or RFID authentication.

RFID Access Control
Manage up to 50 authorized users with personalized access credentials.

7” Touch Screen Panel (800x480px)
Intuitive touch interface for quick access to all cabinet data and settings, displayed in a clear 800x480px resolution.

Industry 4.0
Remote access via Wi-Fi or Ethernet, real-time humidity/temperature monitoring, and graphical datalogger analysis.

TRACE EVERY COMPONENT
OPTIMIZE EVERY STEP

Fully Integrated with Your ERP System



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Two Lines. One Standard: Excellence. X-Line / C-Line

Whether you're managing routine drying processes or specialized temperature-critical tasks, our cabinet solutions are designed to adapt to your exact requirements. X-Line delivers dependable, **standard drying performance** with moderate temperature control — ideal for general-purpose use, with options for cooling down to 15°C and heating up to 60°C.

C-Line is built for **advanced applications** requiring more extreme conditions, offering configurations for **either cooling down to 2°C** or **high-temperature baking up to 125°C** — depending on your process.

Both series are fully **customizable and configurable,** allowing you to:

- Add **heating or cooling units**
- Integrate **adjustable shelving and storage solutions**
- Choose from **multiple capacity options** to fit your space and workflow

Turn the page to discover which solution fits your application best.

Your Process. Your Line. Your Choice.



XT-1250
X-Line



CT-1250
C-Line

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X-LINE CABINET FEATURES

Standard Features

- Built-in Indoor Humidity and Temperature Monitoring Sensor
- 7” Touchscreen Control Panel with 800×480 Pixel Resolution
- LAN Connectivity via Wi-Fi or Ethernet
- Remote Monitoring System (RMS)
- Integrated Datalogger (2 GB)
- Audible Door Alarm with Built-in Buzzer
- Dual Insulated Glass Doors
- Stainless Steel Rear Panels
- Electrostatic Painted Metal Sheet Chassis
- 4 or 5 Casters (2 Lockable) + 2 Adjustable Stabilization Legs
- Interior Lighting System (2-Color Light)
- RFID Access (125 kHz or 13.56 MHz)
- Honeycomb Cardboard Packaging with Pallet
- No Shelves Included (customizable)

Additional Features

- Dryer Unit Configuration: None / 1 Dryer / 2 Dryers
- Password-Enabled Automatic Door Locks
- Outside Humidity and Temperature Sensor
- Stainless Steel Fixed or Sliding Shelves
- Heater Kit (45 °C / 60 °C)
- Thermal Insulation + Stainless Steel Panels
- Door Configurations: Single, 2-Door, or 4-Door
- Cooling Unit (15 °C)
- Extraction Unit
- Humidifier Unit
- HEPA Filter
- Integrated Oxygen Sensor
- External Alarm Bar (Magnetic Base, 2-Color Light, Buzzer)
- PCM-01 (Power Consumption Monitoring Module)
- Smart Nitrogen Unit

STANDARD VOLUMES

XS 300-600-900

EXTERNAL DIMENSIONS (W x H x D)		
XS LINE CABINETS	XS-300	606 x 1097* x 751 mm
	XS-600	606 x 1958* x 751 mm
	XS-900	606 x 1958* x 1051 mm
INTERNAL DIMENSIONS (W x H x D)		Non Insulated
XS LINE CABINETS	XS-300	603 x 792 x 656 mm
	XS-600	603 x 1654 x 657 mm
	XS-900	603 x 1653 x 957 mm
NET VOLUME		Non Insulated
XS LINE CABINETS	XS-300	313 l
	XS-600	650 l
	XS-900	950 l
WEIGHT*		
XS LINE CABINETS	XS-300	90 kg
	XS-600	134 kg
	XS-900	160 kg
AVERAGE POWER CONSUMPTION*		50W / Hour



* Depends on configuration

XT-1250

EXTERNAL DIMENSIONS (W x H x D)	1200 x 1958* x 751 mm
INTERNAL DIMENSIONS (W x H x D)	Non Insulated
	1197 x 1653 x 657 mm
NET VOLUME	Non Insulated
	1300 l
WEIGHT*	270 kg
AVERAGE POWER CONSUMPTION*	50W / Hour



*Depends on configuration

XL-1800

EXTERNAL DIMENSIONS (W x H x D)	1200 x 1958* x 1051 mm
INTERNAL DIMENSIONS (W x H x D)	Non Insulated
	1197 x 1653 x 957 mm
NET VOLUME	Non Insulated
	1900 l
WEIGHT*	300 kg
AVERAGE POWER CONSUMPTION*	50W / Hour



*Depends on configuration

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C-LINE CABINET FEATURES

2°C or 125°C

Standard Features

- Built-in Humidity and Temperature Monitoring Sensor
- 7” Touch Screen Control Panel, 800*480 Pixel Screen Resolution
- LAN Connectivity via Wi-Fi or Ethernet
- Remote Monitoring System (RMS)
- Integrated Datalogger
- No Shelves Included
- Audible Door Alarm Equipped with Buzzer
- Dual Insulated Glass Doors
- Stainless Steel Rear Panels
- 4 or 5 Casters (2 Lockable)
- 2 Adjustable Stabilization Legs
- Electrostatic Painted Metal Sheet Chassis
- Interior Lighting System (2-Color Light)
- RFID Access (125 kHz or 13,56 MHz)
- Honeycomb Cardboard Packaging with Pallet
- Thermal Insulation and Interior Stainless Steel (SS) Panels on All Sides

Optional Features

- Dryer Unit (DHM-01) – Configuration Options: No Dryer Unit / 1 Dryer Unit / 2 Dryer Units.
- N2 Auto-Flow Unit
- Password-Enabled Automatic Door Locks
- Outside Humidity and Temperature Sensor
- Stainless Steel Fixed Shelf or Sliding Shelf
- Heater Kit (125 °C)
- Gas-Cooled Cooling Unit (Down to 2 °C)
- Water-Cooled Cooling Unit (Chiller) **
- Door Options: Single-Door, 2-Door, or 4-Door Configurations
- Extraction Unit
- Humidifier Unit
- HEPA Filter
- Integrated Oxygen Sensor (OS-01)
- External Alarm Bar with Magnetic Base, 2-Color Light and Buzzer (EAL-01)

STANDARD VOLUMES

CS 300-600-900

EXTERNAL DIMENSIONS (W x H x D)		
C-LINE CABINETS	CS-300	706 x 1097* x 801 mm
	CS-600	706 x 1966* x 801 mm
	CS-900	706 x 1967* x 1101 mm
INTERNAL DIMENSIONS (W x H x D)		Non Insulated
C-LINE CABINETS	CS-300	641 x 712 x 581 mm
	CS-600	641 x 1582 x 581 mm
	CS-900	641x 1582 x 881 mm
NET VOLUME		Non Insulated
C-LINE CABINETS	CS-300	265 l
	CS-600	588 l
	CS-900	893 l
WEIGHT*		
C-LINE CABINETS	CS-300	90 kg
	CS-600	134 kg
	CS-900	160 kg
AVERAGE POWER CONSUMPTION*		50W / Hour



* Depends on configuration

CT-1250

EXTERNAL DIMENSIONS (W x H x D)	1316 x 1958* x 801 mm
INTERNAL DIMENSIONS (W x H x D)	Non Insulated
	1251x 1573x 565 mm
NET VOLUME	Non Insulated
	1100 l
WEIGHT*	270 kg
AVERAGE POWER CONSUMPTION*	50W / Hour



*Depends on configuration

CL-1800

EXTERNAL DIMENSIONS (W x H x D)	1316 x 1958* x 1101 mm
INTERNAL DIMENSIONS (W x H x D)	Non Insulated
	1251 x 1573 x 865 mm
NET VOLUME	Non Insulated
	1700 l
WEIGHT*	300 kg
AVERAGE POWER CONSUMPTION*	50W / Hour



*Depends on configuration

EMT ELECTRONICS

A NEW ERA IN PRODUCTIVITY

REVOLUTIONIZE STORAGE WITH PICK BY LIGHT TECHNOLOGY

Maximize Efficiency | Eliminate Errors | Empower Your Workflow

Experience next level storage optimization with X-Smart Light a cutting edge solution designed to streamline your inventory operations using intuitive Pick by Light technology.

By illuminating the exact slot where each item is stored, it guides operators to the right pick, right away. No guessing, no wasted motion just fast, flawless retrieval with visual cues that drive speed, accuracy, and efficiency.

A red LED instantly signals any error, enabling immediate correction and keeping your operations running smoothly with zero compromise on quality.

With X-Smart Light, you'll boost productivity, reduce operator errors, and take full control of your storage environment.



X-SMART LIGHT

Smart Material Management Systems

SMART **MATERIAL MANAGEMENT SYSTEMS**

Scalable, High Capacity, Tailored for Performance.

Maximize your storage efficiency with our high capacity, modular inventory solutions engineered to support demanding production environments. X-Smart Light cabinets support mixed-format storage and allow full customization of the internal layout according to the user's inventory profile.

- Various reel diameters and widths.
- Tray shelves for matrix/tray components.
- Stick/tube holders for axial or long components.

Reel Capacity for 7" Reels:

Cabinets	7" Reel Capacity (Shelf x Holder x Slot)
XS-300	3 x 3 x 27 = 243
XS-600	8 x 3 x 27 = 648
XS-900	8 x 4 x 27 = 864
XT-1250	16 x 3 x 27 = 1296
XL-1800	16 x 4 x 27 = 1728



1296

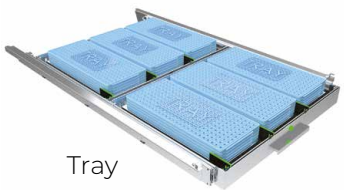
= **1728**

Maximum Efficiency

Shelf: Maximum shelf count per cabinet.
Holder: Reel holders per shelf (horizontal plane).
Slot: Individual reel positions within each holder.
For customer specific reel dimensions or storage demands, our team is ready to deliver tailored configurations to fit your exact needs.
Capacities are calculated based on cabinet configurations without middle bar.



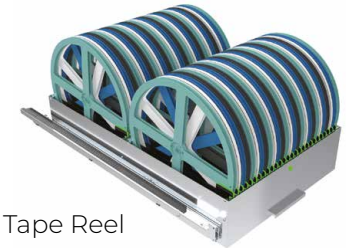
Tube/Stick



Tray



Jar



Tape Reel
7" - 11" - 13" - 15"

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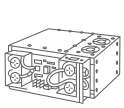
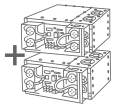
FEATURES & STANDARDS

STANDARD & OPTIONAL FEATURES	 Dryer Unit	 Second Dryer Unit	 Smart Nitrojen Unit	 7" Touch Screen Control Panel With Software	 Datalogger +RMS	 Indoor Light	 RFID Access	 Automatic Door Locks
X Line Models								
XS-300	●	●	●	✓	✓	✓	✓	●
XS-600	●	●	●	✓	✓	✓	✓	●
XS-900	●	●	●	✓	✓	✓	✓	●
XT-1250	●	●	●	✓	✓	✓	✓	●
XL-1800	●	●	●	✓	✓	✓	✓	●
C Line Models								
CS-300	●	●	●	✓	✓	✓	✓	●
CS-600	●	●	●	✓	✓	✓	✓	●
CS-900	●	●	●	✓	✓	✓	✓	●
CT-1250	●	●	●	✓	✓	✓	✓	●
CL-1800	●	●	●	✓	✓	✓	✓	●

ACCESSORIES	 Outside Humidity &Temperature Sensor	 Oxygen Sensor	 Humidifier Unit	 External Alarm Bar	 Hepa Filter	 UV Light	 Modbus Connectivity	 Power Consumption Monitoring
X Line Models								
XS-300	●	●	●	●	●	●	●	●
XS-600	●	●	●	●	●	●	●	●
XS-900	●	●	●	●	●	●	●	●
XT-1250	●	●	●	●	●	●	●	●
XL-1800	●	●	●	●	●	●	●	●
C Line Models								
CS-300	●	●	●	●	●	●	●	●
CS-600	●	●	●	●	●	●	●	●
CS-900	●	●	●	●	●	●	●	●
CT-1250	●	●	●	●	●	●	●	●
CL-1800	●	●	●	●	●	●	●	●

✓ Standard ● Optional ● Not Available

2° C Cooling Unit	15° C Cooling Unit	45° C Heating Unit	60° C Heating Unit	125° C Heating Unit	Extraction Unit	Single Door	2 Doors	4 Doors
●	●	●	●	●	●	✓	●	●
●	●	●	●	●	●	●	✓	●
●	●	●	●	●	●	●	✓	●
●	●	●	●	●	●	●	●	✓
●	●	●	●	●	●	●	✓	●
●	●	●	● *	●	●	✓	●	●
●	●	●	● *	●	●	●	✓	●
●	●	●	● *	●	●	●	✓	●
●	●	●	● *	●	●	●	●	✓
●	●	●	● *	●	●	●	✓	●

MSD Track Software	SS Fixed Shelf	SS Sliding Shelf	X-Smart Light Shelves	Fifo Shelf	Reel Holder	Stainless Steel I Divider	Stainless Steel U Divider	Feeder Holder
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	● ***	●	●	●	●	●
●	●	●	● ***	●	●	●	●	●
●	●	●	● ***	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●

*Only available with cooling option ** 125 °C is not applicable with 2 °C or 15 °C
***Solder paste jar & cartridge shelves.

REFERENCE CONDITIONS FOR DRYING SMD PACKAGES AND COMPONENTS

			Drying at 1%Rh		Drying at 5%RH IPC J-STD-033D	
Body Thickness	MSL	25 °C	40 °C	60° C	40 °C	90 °C
≤0,5 mm	2	Not Required	Not Required	Not Required	Not Required	Not Required
	2a	9 Hours	3 Hours	1 Hours	12 Hours	2 Hours
	3	18 Hours	6 Hours	1 Hours	22 Hours	3 Hours
	4	18 Hours	6 Hours	1 Hours	22 Hours	3 Hours
	5	18 Hours	6 Hours	1 Hours	23 Hours	3 Hours
	5a	21 Hours	7 Hours	2 Hours	26 Hours	4 Hours
>0,5 mm ≤0,8 mm	2	Not Required	Not Required	Not Required	Not Required	Not Required
	2a	3 Days	1 Days	6 Hours	4 Days	15 Hours
	3	3 Days	1 Days	6 Hours	4 Days	15 Hours
	4	3 Days	1 Days	6 Hours	4 Days	16 Hours
	5	3 Days	1 Days	6 Hours	4 Days	16 Hours
	5a	3 Days	1 Days	6 Hours	4 Days	16 Hours
>0,8 mm ≤1,4 mm	2	Not Required	Not Required	Not Required	Not Required	Not Required
	2a	6 Days	2 Days	12 Hours	8 Days	25 Hours
	3	6 Days	2 Days	12 Hours	8 Days	25 Hours
	4	9 Days	3 Days	15 Hours	10 Days	27 Hours
	5	9 Days	3 Days	17 Hours	11 Days	28 Hours
	5a	9 Days	3 Days	18 Hours	12 Days	30 Hours
>1,4 mm ≤2,0 mm	2	18 Days	6 Days	38 Hours	25 Days	63 Hours
	2a	21 Days	7 Days	2 Days	29 Days	3 Days
	3	27 Days	9 Days	2 Days	37 Days	4 Days
	4	36 Days	12 Days	3 Days	47 Days	5 Days
	5	42 Days	14 Days	4 Days	57 Days	6 Days
	5a	60 Days	20 Days	5 Days	79 Days	8 Days
>2,0 mm ≤4,5 mm	2	60 Days	20 Days	5 Days	79 Days	10 Days
	2a	60 Days	20 Days	5 Days	79 Days	10 Days
	3	60 Days	20 Days	5 Days	79 Days	10 Days
	4	60 Days	20 Days	5 Days	79 Days	10 Days
	5	60 Days	20 Days	5 Days	79 Days	10 Days
	5a	60 Days	20 Days	5 Days	79 Days	10 Days
Exception for BGA package > 17 mm x 17 mm or any stacked die package	2 - 5a	Not applicable	Not applicable	64 Days	Not applicable	Not applicable
	MSL 6		Mandatory bake before use. After bake, must be reflowed within the time limit specified on the label.			

The information given above is only for general guide and advise. There are several parameters like Moisture levels,Moisture gains of components, Ambient conditions, Package types etc involved in moisture absorbtion and drying.

CUSTOM CABINETS FOR PRECISION STORAGE AND CONTROL

Our cabinets can be fully customised to meet specific operational requirements. This includes adjustable shelving layouts tailored to your components and workflow, as well as humidity and temperature control, optional O_2 monitoring, and nitrogen injection capabilities. We also offer bespoke design solutions to meet unique customer needs, such as fully stainless steel cabinets or side-access models. Each unit is designed to optimise storage efficiency and operational convenience.



CT-1250

*** Custom stainless steel cabinet.**



XT-1250

*** Custom feeder storage cabinet. Compatible with almost all feeders.**

EMT ELECTRONICS

REFERENCES



and many more...

OFFICES

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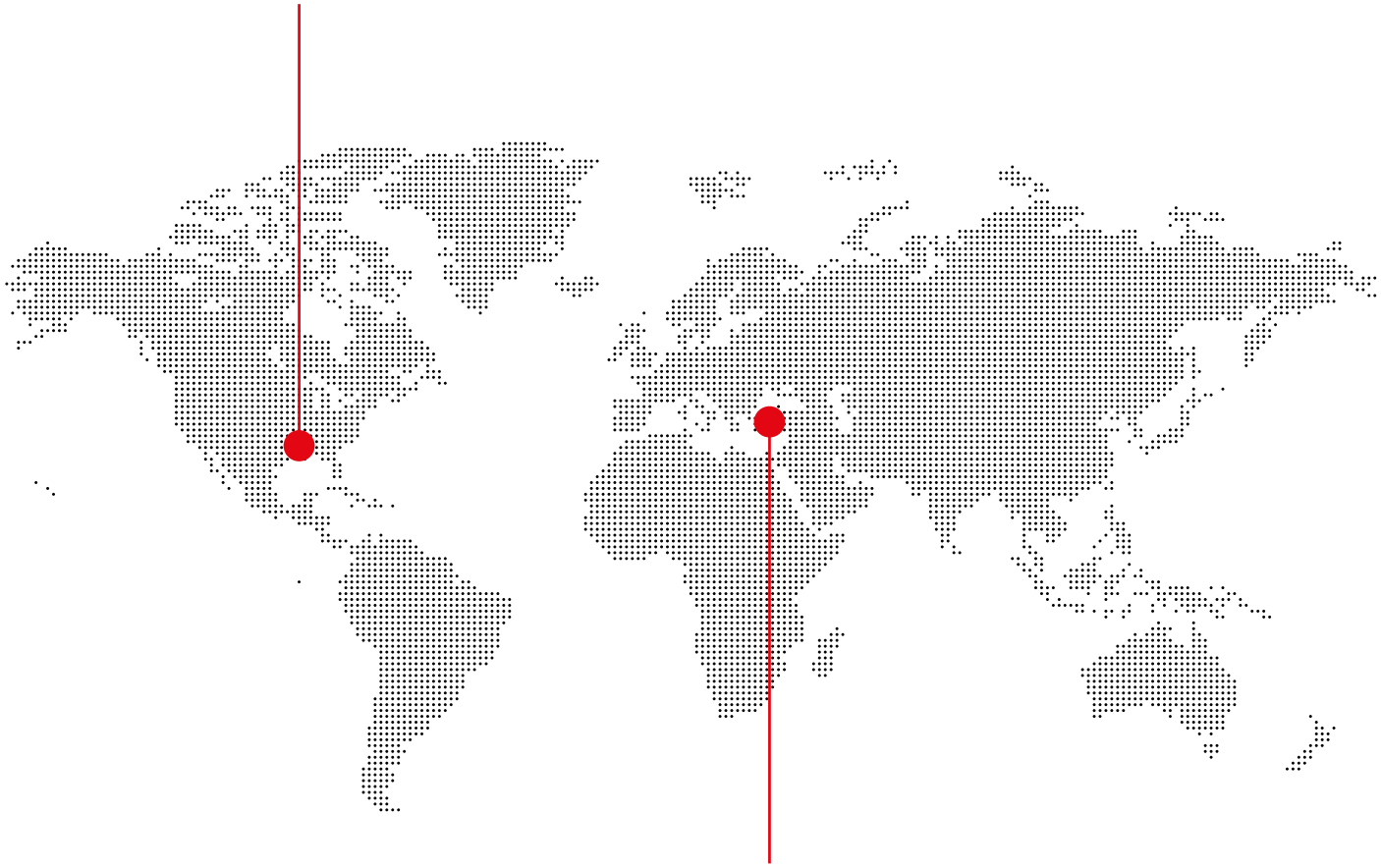

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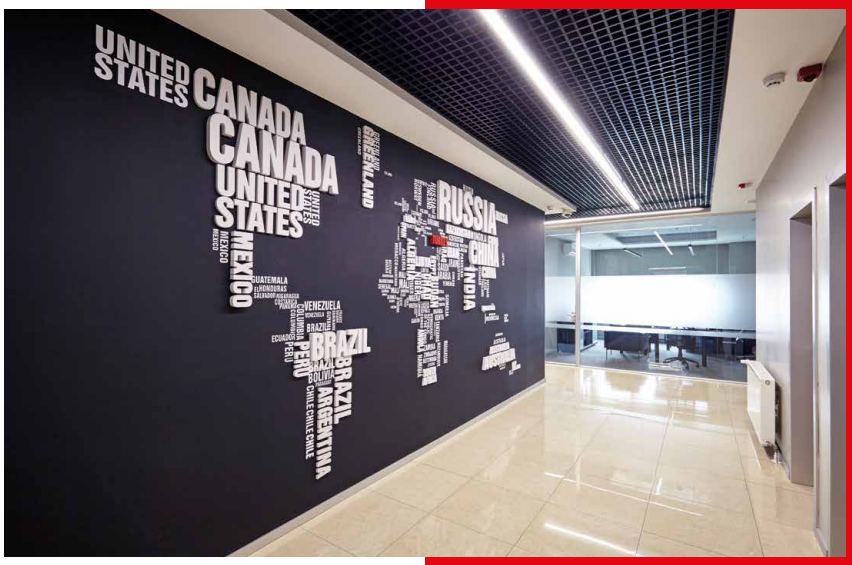



Today, EMT Electronics solutions are trusted in more than 60 countries, empowering organizations worldwide with unmatched precision, reliability, and performance. From electronics manufacturing to defense and medical technologies, our high-performance dehumidification and storage systems safeguard processes where failure is not an option.



EMT Electronics® is a specialized technology group with over three decades of experience driving innovation across critical industries. With proven expertise in design, engineering, manufacturing, and R&D, EMT Electronics delivers state-of-the-art solutions in forensic laboratory technologies, ballistic testing systems, and industrial dry storage cabinets.

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ELECTRONICS

Manufactured by

EMT ELECTRONICS

Our products are manufactured in compliance with **CE** standards.

Rev02
February 2026