



**X-Treme
Series**

AUTO DRY CABINETS

The Fastest Dry Storage Cabinets for Electronic Components

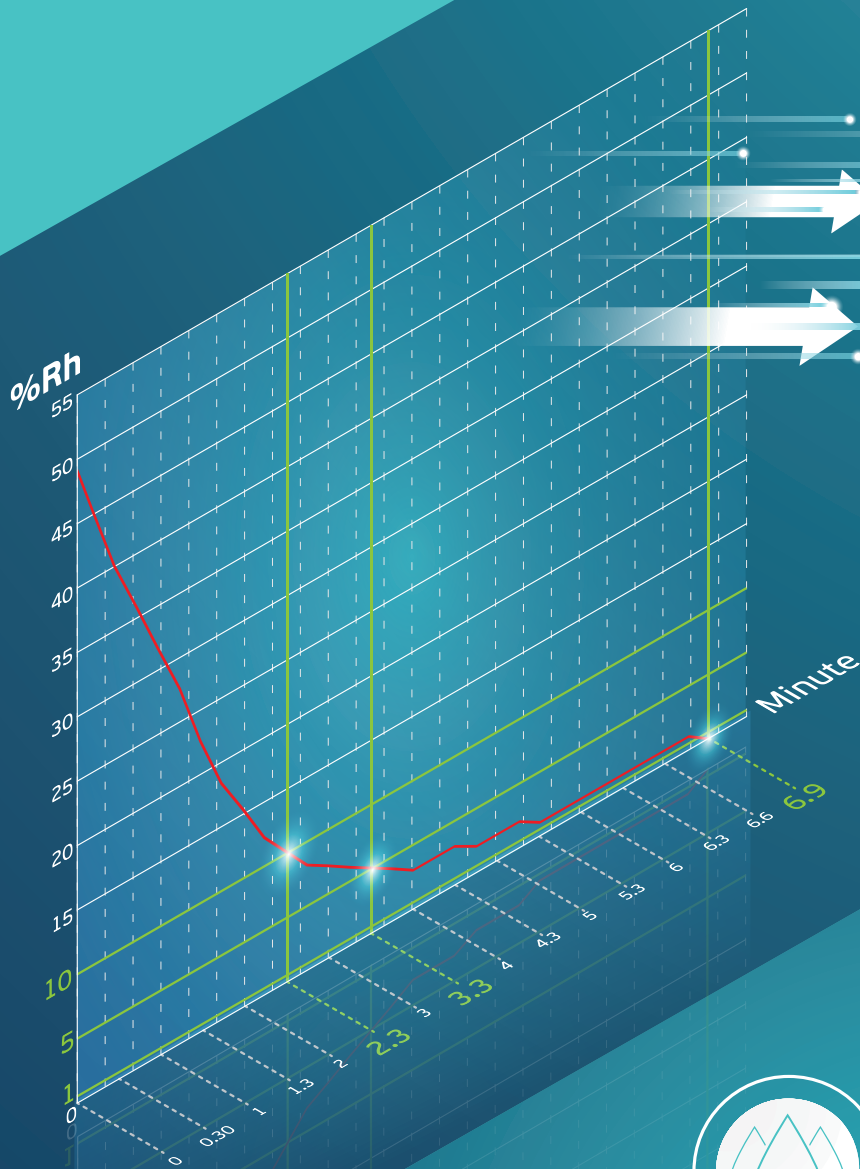


 Min. 0.5%Rh	 Min. 2°C Max. 125°C
Humidity	Temperature

www.x-tremeseries.com

X-Treme Series

AUTO DRY CABINETS



50%Rh to \rightarrow 1%Rh
under 7 minutes!

50%Rh to \rightarrow 5%Rh
under 4 minutes!

**The best place
for your product**



**Internal
Relative Humidity**
0.5% Rh • 95% Rh



**Internal
Temperature Options**
2°C-15°C-45°C-60°C
up to 125°C



**Sensor
Accuracy**
 ± 0.3 Rh Humidity
 $\pm 0.5^\circ\text{C}$ Temperature

*Results may vary depending on configuration.

Standard Volumes



XL Line (1840 lt)

External Dimensions (WxHxD)	1200 x 1958* x 1051 mm	
Internal Dimensions (WxHxD)	Non Insulated	Insulated
	1197 x 1653 x 957 mm	1175 x 1633 x 865 mm
Net Volume	Non Insulated	Insulated
	1900 lt	1660 lt
Weight*	300 kg	
Average Power Consumption*	50W / hour	

* Depends on configuration



XT Line (1250 lt)

External Dimensions (WxHxD)	1200 x 1958* x 751 mm	
Internal Dimensions (WxHxD)	Non Insulated	Insulated
	1197 x 1653 x 657 mm	1175 x 1633 x 565 mm
Net Volume	Non Insulated	Insulated
	1300 lt	1080 lt
Weight*	270 kg	
Average Power Consumption*	50W / hour	

* Depends on configuration

XS Line (300-600-900 lt)



External Dimensions (WxHxD)			
XS Line Cabinets	XS-300	606 x 1097* x 751 mm	
	XS-600	606 x 1958* x 751mm	
	XS-900	606 x 1958* x 1051 mm	
Internal Dimensions (WxHxD)			
XS Line Cabinets	XS-300	603 x 792 x 656 mm	584 x 771 x 565 mm
	XS-600	603 x 1654 x 657 mm	584 x 1633 x 565 mm
	XS-900	603 x 1653 x 957 mm	584 x 1633 x 865 mm
	Net Volume		
XS Line Cabinets	XS-300	313 lt	260 lt
	XS-600	650 lt	538 lt
	XS-900	950 lt	824 lt
Weight *			
XS Line Cabinets	XS-300	90 Kg	
	XS-600	134 Kg	
	XS-900	160 Kg	
Average Power Consumption*		50W / hour	

* Depends on configuration

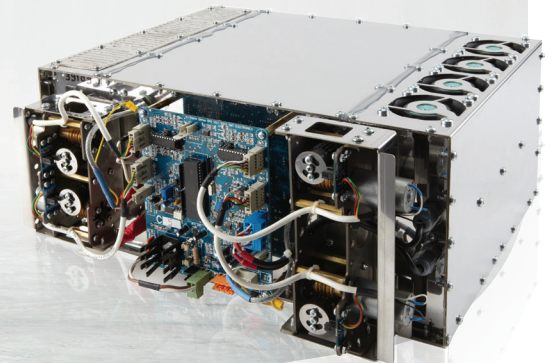
Drying Methods

Auto Dry Cabinets (Dryer)

Auto Dry Storage Cabinets represent the cutting-edge solution for moisture protection. The X-Treme Series Auto Dry Cabinets stand out with their plug-and-play design, requiring no consumables for operation. With their Plug-and-Play design, they automatically maintain optimal conditions upon connection.

For enhanced performance, dual dryer units can be installed, ensuring continuous dehumidification. Our advanced software ensures the dryer units alternate their regeneration cycles, guaranteeing uninterrupted protection.

Your valuable products deserve the best storage conditions. Let our cabinets safeguard your materials while you focus on your work



Smart Nitrogen Cabinets (N₂)

One of the earliest and most reliable methods of dehumidification is nitrogen purging, a technique widely recognized for its effectiveness in environments where oxidation poses a significant risk. Nitrogen's inert properties create ideal conditions to prevent moisture adsorption and corrosion, safeguarding sensitive materials. Our Smart Nitrogen System adjusts the utilized gas to minimize the consumption levels while keeping the humidity levels at the desired values, saving your money without compromising the protection of your materials.



Hybrid Cabinets (Dryer + N₂)

X-Treme Series Hybrid Auto Dry Cabinets deliver comprehensive solutions, combining the advantages of both systems for superior performance.

Equipped with a dryer unit and our Smart Nitrogen System, these hybrid cabinets optimize costs by alternating between nitrogen and the dryer to create a fast, oxidation-free storage environment. Once the desired levels are achieved, the Smart Nitrogen System ceases gas usage and transfers full operation to the dryer unit.

Hybrid cabinets offer substantial savings in both cost and time, making them an efficient and reliable storage solution



Humidity Management Redefined

Ultra-Fast Dehumidification

Experience the fastest recovery time in the market with the X-Treme Series achieving $\leq 1\%$ RH in under 7 minutes.

Achieve Ultra-Low Humidity

Our cabinets deliver exceptional performance, reaching as low as 0.5% RH to protect even the most sensitive components.

Enhanced Protection

The multidoor configuration minimizes ambient air penetration, ensuring optimal internal conditions are maintained.

Homogeneous Air Distribution

A uniquely designed air circulation system guarantees uniform humidity levels across all cabinet sections.

Long-Term Stability and Reliability

Built for endurance, our cabinets ensure stable operations and exceptional performance for over 10 years.

Continuous Dehumidification

Dual dryer units ensure uninterrupted dehumidification for consistent performance.

Precision Humidification

For applications requiring high humidity, X-Treme Series Cabinets can achieve up to 95% RH with precision.



Advanced Temperature Management

Comprehensive Temperature Control with Heating & Cooling Options

The X-Treme Series Cabinets provide four heating options: 45°C, 60°C, 100°C, and 125°C. Temperature stability is ensured through our advanced smart software platform, maintaining precise internal conditions.

Thermal Insulation

Dual-layered cabinet walls and magnetic door gaskets minimize thermal exchange, ensuring consistent internal temperature stability.

High-Temperature Performance Up to 125°C

With the 125°C option, the X-Treme Series Cabinets offer a cost-effective and user-friendly alternative to reflow ovens, belt furnaces, and autoclaves for baking and high-temperature applications.

Low-Temperature Cooling Down to 2°C

The cabinets feature three cooling options: 2°C, 5°C, and 15°C. The integrated cooling unit maintains the set temperature precisely, even when ambient conditions exceed the desired internal temperature.





Accuracy

High-Precision Performance

The X-Treme Series Auto Dry Cabinets are meticulously engineered to meet the demands of your most sensitive materials. Equipped with advanced accessories and cutting-edge sensors, these cabinets ensure the precise environmental conditions required for optimal safety and preservation.

Exceptional Reliability

Featuring specialized sensors with an accuracy of $\pm 0.3\%$ RH for humidity and $\pm 0.5^\circ\text{C}$ for temperature, the X-Treme Series delivers unmatched reliability. Comprehensive documentation, including calibration certificates, is provided to support rigorous quality standards.

Monitoring Ambient Conditions

Integrated outdoor sensors allow continuous monitoring and logging of external humidity and temperature, enabling complete control and visibility over both internal and external environments.

Monitoring & Control

Integrated Control System

Our proprietary in-house software is tailored exclusively for the X-Treme Series Cabinets, offering intuitive, granular control over every operational parameter. Its user-friendly interface simplifies the management of complex processes with precision.

Comprehensive Data Logging

Datalogger allows users to track and log data of multiple parameters. These can be exported to your computer by internet connection for more detailed analysis.

Remote Monitoring Capabilities

The Remote Monitoring System offers unparalleled convenience, allowing users to oversee humidity and temperature levels from any location. The system is equipped to send automated email notifications whenever set parameters are exceeded, ensuring immediate attention to deviations.



Unmatched Security & Protection

Automatic Door Locking System

Automatic door locks, managed via password or RFID cards, ensure robust protection by preventing unauthorized access to the cabinet..

RFID Access Control

Our advanced software supports password protection for up to 8 operators, ensuring only authorized personnel can access stored materials. For added convenience, RFID card access is also available.

Intelligent Security Monitoring

Equipped with magnetic switches, the system continuously monitors door status. A Door Ajar Alarm provides immediate notifications if a door is left open or not properly secured.



Customization

Tailored Solutions for Your Needs

The X-Treme Series Cabinets offer unparalleled design flexibility, combining precision engineering with high-quality standards to deliver customized solutions tailored to your unique requirements.

Versatile Storage Options

Our cabinets accommodate diverse storage needs, including fixed shelves, sliding shelves, dividers, feeder storage systems, and more. Enhance functionality with available accessories such as PCB racks, HEPA filters, UV lights, and alarm bars.

Partner with X-Treme Series for Your Custom Solutions

Backed by over 30 years of global experience, our team of expert technicians and engineers collaborates with you to design reliable, efficient, and stable solutions. With the X-Treme Series, you gain the freedom to optimize your storage systems to suit any application.

Contact us today to explore the full range of customization options.

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 Hour	12 Hours	2 Hours
	3	18 Hours	6 Hours	1 Hour	22 Hours	3 Hours
	4	18 Hours	6 Hours	1 Hour	22 Hours	3 Hours
	5	18 Hours	6 Hours	1 Hour	23 Hours	3 Hours
	5a	21 Hours	7 Hours	2 Hour	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 Day	6 Hours	4 Days	15 Hours
	3	3 Days	1 Day	6 Hours	4 Days	15 Hours
	4	3 Days	1 Day	6 Hours	4 Days	16 Hours
	5	3 Days	1 Day	6 Hours	4 Days	16 Hours
	5a	3 Days	1 Day	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

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 absorption and drying.

High-end Technology

7" Touch Screen Panel

Our cabinets are equipped with variable and high-end features. One of the most important feature is the touch screen panel. The panel provides 800x480px resolution in 7" touch capable area. The user can reach all important data in the cabinets with simple clicks.

Industry 4.0

X-Treme Series Auto Dry Cabinets can be reached remotely via computers, phones and tablets which are using Wi-Fi and ethernet connections. Humidity and temperature values can be followed instantly. All datalogger parameters can be monitored and graphed for your analysis.



SOME OF OUR REFERENCES

				and many more...		

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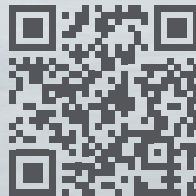
The Fastest Dry Cabinets

for Drying & Baking
Electronic Components

Manufactured by EMT Electronics

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Compliance with IPC/JEDEC-J-STD-033D standards
Compliance with CE and Rohs