

# X-Treme Series

AUTO DRY CABINETS

## CONFORMAL COATING DRYING CABINET



0.5%Rh Humidity | 100°C Temperature

[www.x-tremeseries.com](http://www.x-tremeseries.com)



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Series**

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The image features a central diamond-shaped component on a blue circuit board. A spray nozzle is positioned above the component, emitting a fine mist of white particles that are being applied to the surface. The background is a dark blue with intricate white circuit traces and various electronic symbols. The overall aesthetic is high-tech and industrial.

***CONFORMAL  
COATING***

## **Conformal Coatings**

A conformal coating is a thin polymeric film applied to a printed circuit board (PCB) in order to protect the board and its components from the moisture, dust, chemicals, temperature extremes and corrosion. The film is typically applied at 25-250µm and 'conforms' to the shape of the board and its components, covering and protecting solder joints, the leads of electronic components, exposed traces, and other metalized areas from corrosion, ultimately extending the working life of the PCBs.

## **Conformal Coating Drying Cabinets**

It is used to dry the coatings under suitable conditions after the conformal coating. Drying conditions can vary depends on the coating material. X-Treme Series Conformal Coating Drying Cabinets perform your baking (drying) process as adjusted set values up to 100°C temperature in order to meet the desired conditions. In addition to that, the humidifying unit can be provided by adjusting the humidity value in the cabinet for the conformal coating materials which require specific humidity amount for drying.

Thanks to our system that performs both dehumidification and baking at the same time, your coatings are dried in a fast, controlled and homogeneous way. The drying processes carried out within 24-48 hours under ambient conditions decrease up to 1-2 hours in our cabinets, providing a controlled process by gaining time and cost-efficiency.

Conformal coatings dried under ambient conditions threaten human health due to their solvent-based structure. Thanks to the ventilation system, it eliminates this threat by directing harmful gases to the in-house ventilation system, and gives importance to human health. Problems such as contamination and ESD that may occur in drying processes performed in ambient conditions are prevented.

Coatings and their qualities can be inspected instantly with the UV Light option.



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Physical	XSC-300-CC	XSC-600-CC	XSC-900-CC	XTC-CC	XLC-CC
Net Volume	300 Lt	625 Lt	925 Lt	1250 Lt	1840 Lt
Net Volume (Thermal Insulated)	285 Lt	600 Lt	890 Lt	1215 Lt	1790 Lt
External Dimensions (WxHxD)	606x1328x750mm	606x2190x750mm	606x2190x1050mm	1200x2190x750mm	1200x2190x1050mm
Internal Dimensions (WxHxD)	603x792x615mm	603x1654x615mm	603x1654x915mm	1197x1654x615mm	1197x1654x915mm
Internal Dimensions (WxHxD) (Thermal Insulated)	582x772x615mm	582x1634x615mm	582x1634x915mm	1176x1634x615mm	1176x1634x915mm
Wight (Depends on configuration)	90 kg	134 kg	160 kg	190 kg	280 kg
Shelf Load Capacity	50 kg				
Height From Ground	30 mm				
Body Material	Electrostatic Painted Steel Body, Stainless Steel Interior Panel (AISI 430)				
Door Glass	24 mm Insulated Glazing				
Shelves and Drawers	2 pcs Stainless Steel	5 pcs Stainless Steel	5 pcs Stainless Steel	10 pcs Stainless Steel	Optional

Electrical	
Voltage	220 - 240 V AC 50 Hz - 110 V AC 60 Hz ( $\pm 10\%$ )
Current / Max. Power	10 A - 16 A (Maximum) / 2200 W Max
Average Power Consumption	50 W/h
Max. Power Consumption	1500 W/h

Operational	XSC-300-CC	XSC-600-CC	XSC-900-CC	XTC-CC	XLC-CC
Humidity Set Range	0.5% - 95% RH (Ambient to Set Value)				
Temperature Set Range (Optional)	2 °C / 15 °C / 45 °C / 60 °C / 100 °C (Ambient to Set Value)				
Time to Reach to Set Humidity Level	<15 min. Single Dryer; <7 min. Double Dryer(values for 1% RH )				
Number of Doors	1	2	2	4	2
Door Lock	Automatic, Password Protected				

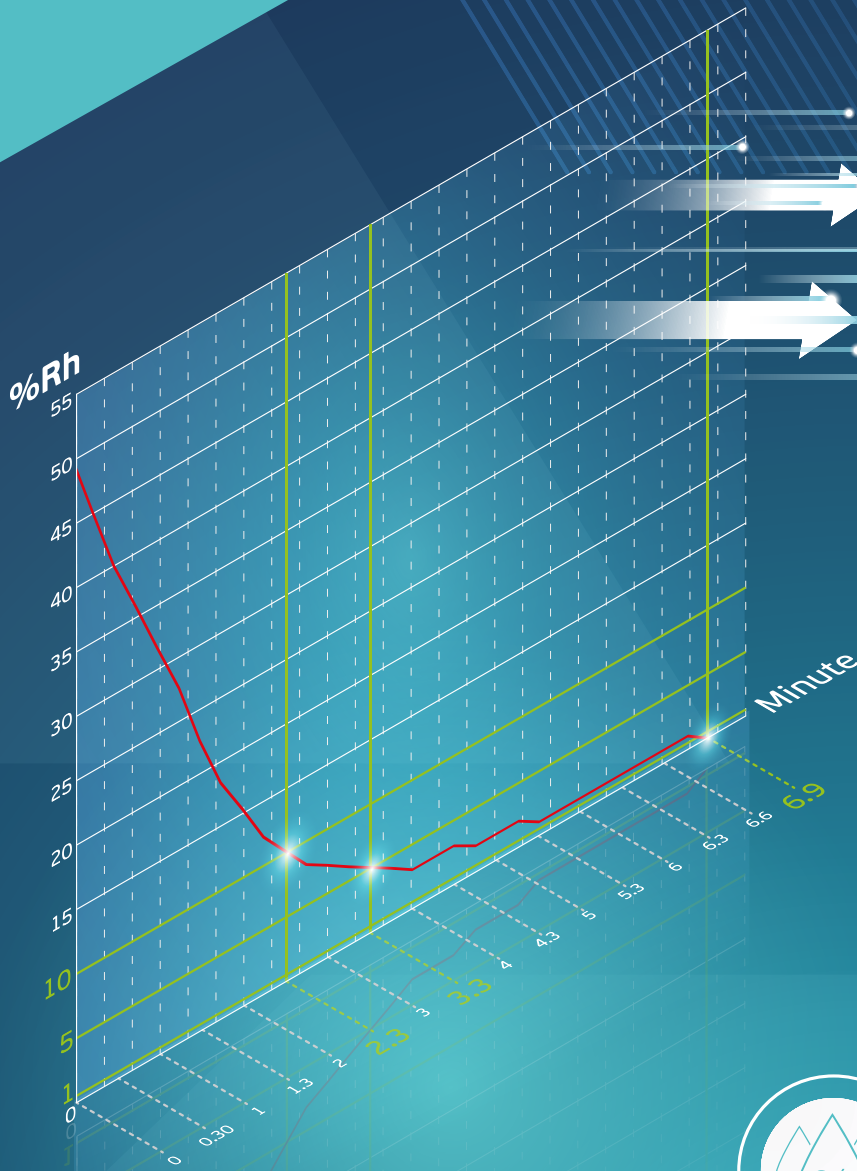
Version 3.0 Software - Industry 4.0		
Display -Control Panel	Type	Touch Screen Display
	Active Area	7" - (155 x 86mm)
	Resolution	800 x 480 Pixel
Datalogger	Capacity	2 GB
	Connection Type	Wi-Fi (Wireless), Ethernet Cable (Network), USB Flash Disk
	USB (AF Type)	Connector Right and Left Side of the Cabinet
RMS (Remote Monitoring)	Monitoring	via PC, Phone, Tablet
	Connection Type	Wi-Fi (Wireless), Ethernet Cable (Network)

# CONFORMAL COATING DRYING CABINET

Sensor Specifications		
Relative Humidity Measurement	Location	Cabinet Inside (Standard), Cabinet Outside (Optional)
	Range	0 - 99% RH
	Accuracy	± 0.3% RH (0...20% RH) ± 1.5% RH (20...99% RH) (After Calibration) (Indoor Sensor)
	Resolution	0.01% RH < 10% RH - 0.1% RH > 10% RH (Indoor Sensor)
Temperature Measurement	Location	Cabinet Inside (Standard), Cabinet Outside (Optional)
	Range	-20 - +110 °C
	Accuracy	± 0,5 °C (at 25 °C)
	Resolution	0.1 °C
Date & Time	Date (dd.mm.yy) and Time (hh:mm:ss) Display With Real Time Clock (RTC)	

Alarm Function	
Alarm Type	Standard Internal Buzzer, Optional Alarm Light Bar
Alarm Duration	Adjustable, Internal Buzzer: 5 - 255 sec. Alarm L. Bar: 1 - 60 min.
Humidity Level Alarm	Adjustable Offset: 0% RH - 40% RH
Temperature Level Alarm	Adjustable Time After Door Close: 1 - 60 minutes
Door Left Open Alarm	Adjustable Time to Alarm: 10 - 240 seconds

Cabinet Specifications		XSC-300-CC	XSC-600-CC	XSC-900-CC	XTC-CC	XLC-CC
UV Light	Capacity	2 x 15W				
	Type	UV-A				
	Socket Type	G13				
	Lamp Type	T8				
	Efficiency	20,6 uW/cm2				
	Wavelength	350-390 nm				
	Control	Manuel				
Extraction	Capacity	350 m3/h				
	Control	Manuel				
Heater	Capacity	2 X750 W				
	Heater Type	Electrical Heating Elements and Fans				
	Insulation Material	Elastomeric Rubber Foam, Thermal Conductivity < 0.036 W/mK				
	Control	Automatic				
Shelf Capacity	Material	Stainless Steel				
	Max Pcs / Cabinet	8	16	16	36	36
	Min. Shelf Height	60mm				
	Mounting / Demounting	With Shelf Holder Parts, No Tools Required				
Customized Storage Options (Depends on Customers' Requirement)	Sliding Shelves					
	Sliding Shelf Dividers					
Alarm Light Bar	Type	Buzzer and Two-Colored Lights, Magnetic Base				
	Buzzer Noise Level	70 dB (A)				
	Light Type and Color	Yellow and Red, 12 V, 5 W Lamps				
	Shape and Visibility	Cylindrical, 360° View				
	Mounting	Easy Attachable with Magnetic Base Plate, Built-In Screw Holes				
	Connection	4-Pin XLR Connector Behind Cabinet				



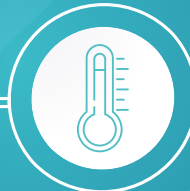
50%Rh to  $\leq 1\%Rh$   
**under 7 minutes!**

50%Rh to  $\leq 5\%Rh$   
**under 4 minutes!**

**The best place  
for your product**



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



**Internal  
Temperature**  
2°C-15°C-45°C-60°C  
up to 100°C



**Sensor  
Accuracy**  
 $\pm 0.3$  Rh Humidity  
 $\pm 0.5^\circ C$  Temperature

The choice of  
**55 COUNTRIES**

SOME OF  
**OUR REFERENCES**

LOCKHEED MARTIN



BOEING

BOSCH  
Invented for life

SIEMENS

AIRBUS

intel

Honeywell

THALES

Fraunhofer

BAE SYSTEMS

LEONARDO

RHEINMETALL

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SAFRAN  
AEROSPACE DEFENCE SECURITY

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National  
Laboratories

Westinghouse



Schneider  
Electric

Ultra  
ELECTRONICS

ERICSSON

BI BRAUN  
SHARING EXPERTISE

Megger

Together  
ahead. RUAG

Boehringer  
Ingelheim



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JAGUAR

BRITISH AMERICAN  
TOBACCO

ALSTOM

CCS  
GROUP

ayesaş

TEL  
TELEKOMÜNİKASYONLAR A.Ş.

TÜRKHAVACILIK  
UZAYSANAYI

GENTEX  
CORPORATION

BNA

ESEN

Collins Aerospace

Heraeus

SYSTEM  
SENSOR

SEAGATE

MOOG

JABIL

and many more...

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# CONFORMAL COATING DRYING CABINET

### Manufactured by EMT Electronics

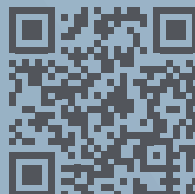
Çamlıca Mahallesi, Anadolu Bulvarı No:16

Regnum Ticaret Merkezi, B Blok No: 5/1

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