X-Treme Series

AUTO DRY CABINETS

CONFORMAL COATING
DRYING CABINET

0.5%Rh Humidity | **125°C** Temperature

www.x-tremeseries.com

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 125°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 (±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 / 125 °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)

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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 - +125 °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

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				
	Wavelenght	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				

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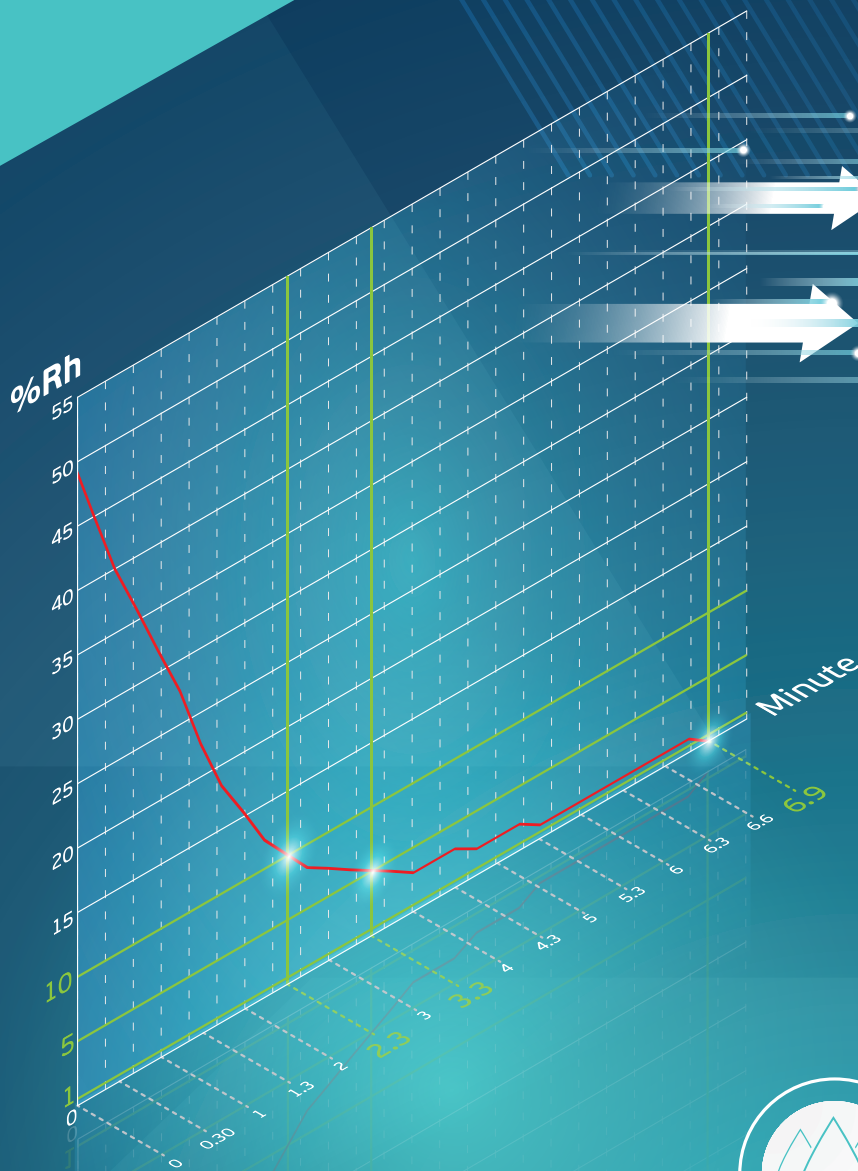
50%Rh to ≤1%Rh
under 7 minutes!

50%Rh to ≤5%Rh
under 4 minutes!

%Rh

Minute

The best place for your product

Internal Relative Humidity
0.5% Rh • 95% Rh

Internal Temperature
2°C-15°C-45°C-60°C-100°C up to 125°C

Sensor Accuracy
±0.3 Rh Humidity
±0.5°C Temperature

The choice of 60 COUNTRIES

SOME OF OUR REFERENCES

LOCKHEED MARTIN · NASA · BOEING · BOSCH Invented for life · SIEMENS · AIRBUS · PHARMAVITE

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WD Western Digital · Roketsan · RENISHAW · SCHOTT · TURKISH TECHNIC · GENERAL MOBILE · TELEDYNE TECHNOLOGIES Everywhereyoulook

Rochester Electronics · UNIVERSITY OF MICHIGAN · OLIGOMER · BAYKAR · Togg · Meta · ANALOG DEVICES AHEAD OF WHAT'S POSSIBLE

Richardson Electronics · melecs · U.S. AIR FORCE · and many more...

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IPC Member

CE

RoHS

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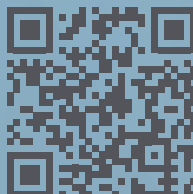
Compliance with IPC/JEDEC-J-STD-033D standards
Compliance with CE and Rohs