

AUTO *Technology*

CORROSION SYSTEMS, SERVICES, AND SUPPLIES



M SERIES

**SALT SPRAY (FOG) & HUMIDITY
PROFESSIONAL CHAMBERS**



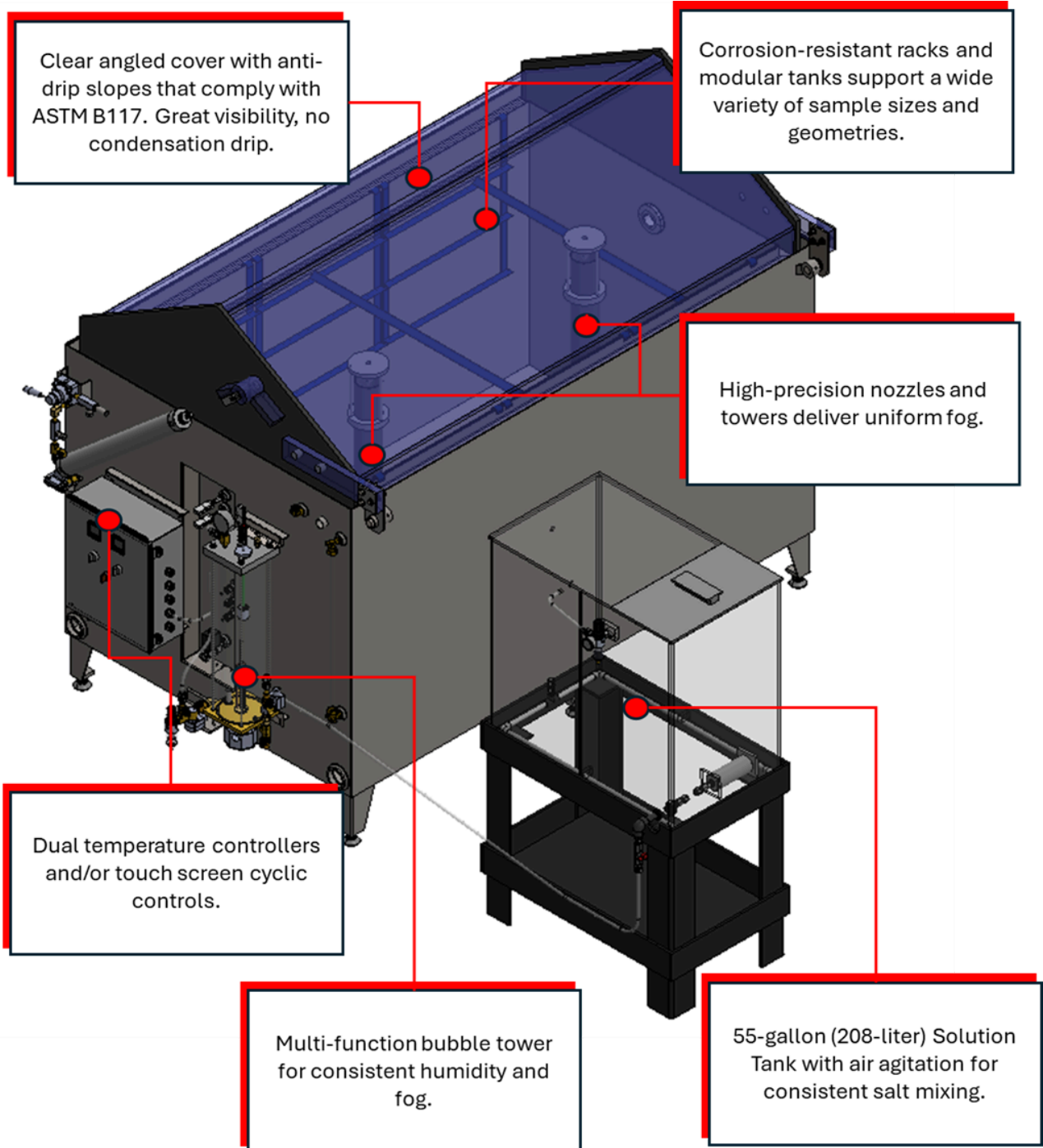
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PRODUCT OVERVIEW



World-Class Support & Reliability

- **12-Month Warranty**
- **Unmatched Service & Parts Availability:** Backed by a knowledgeable support team and reliable parts supply
- **Global Availability:** Chambers and support are available where you need them



INTERNAL CHAMBER SIZES

How big are your parts? How many parts do you need to test at a time? Do you need a lower profile chamber?

Model	P/N	Internal Volume		Exposure Zone Dimensions W x D x H	
		ft ³	L	in	cm
15	C100015	15	434	22.65 x 30.27 x 38.64	57.5 x 76.9 x 98.1
	C100015-H	19	539	22.65 x 30.27 x 48	57.5 x 76.9 x 121.9
	C100015-L	12	333	22.65 x 30.27 x 29.64	57.5 x 76.9 x 75.3
22	C100022	31	875	45.65 x 30.27 x 38.64	116 x 76.9 x 98.1
	C100022-H	38	1087	45.65 x 30.27 x 48	116 x 76.9 x 121.9
	C100022-L	24	671	45.65 x 30.27 x 29.64	116 x 76.9 x 75.3
23	C100023	68	1933	72.27 x 42.25 x 38.64	183.6 x 107.3 x 98.1
	C100023-H	85	2402	72.27 x 42.25 x 48	183.6 x 107.3 x 121.9
	C100023-L	52	1483	72.27 x 42.25 x 29.64	183.6 x 107.3 x 75.3
24	C100024	101	2862	93.65 x 48.27 x 38.64	237.9 x 122.6 x 98.1
	C100024-H	126	3556	93.65 x 48.27 x 48	237.9 x 122.6 x 121.9
	C100024-L	78	2196	93.65 x 48.27 x 29.64	237.9 x 122.6 x 75.3
410	C100041	130	3676	120.27 x 48.27 x 38.64	305.5 x 122.6 x 98.1
	C100041-H	161	4566	120.27 x 48.27 x 48	305.5 x 122.6 x 121.9
	C100041-L	100	2829	120.65 x 48.27 x 29.64	306.5 x 122.6 x 75.3
512	C100052	194	5506	144.27 x 60.27 x 38.64	366.4 x 153.1 x 98.1



EXTERNAL CHAMBER SIZES

Model	Configuration	Chamber Only W x D x H		Solution Tank W x D 55 Gallon		Chamber + Solution Tank External Dimensions W x D x H	
		in	cm	in	cm	in	cm
15	C100015	50 x 37 x 61	127 x 94 x 155	33 x 24	84 x 61	83 x 37 x 61	211 x 94 x 155
	C100015-H	50 x 37 x 71	127 x 94 x 179			83 x 37 x 71	211 x 94 x 179
	C100015-L	50 x 37 x 52	127 x 94 x 133			83 x 37 x 52	211 x 94 x 133
22	C100022	73 x 41 x 63	186 x 105 x 161			106 x 41 x 63	270 x 105 x 161
	C100022-H	73 x 41 x 73	186 x 105 x 184			106 x 41 x 73	270 x 105 x 184
	C100022-L	73 x 41 x 54	186 x 105 x 138			106 x 41 x 54	270 x 105 x 138
23	C100023	99 x 54 x 67	252 x 138 x 171			132 x 54 x 67	336 x 138 x 171
	C100023-H	99 x 54 x 77	252 x 138 x 194			132 x 54 x 77	336 x 138 x 194
	C100023-L	99 x 54 x 58	252 x 138 x 148			132 x 54 x 58	336 x 138 x 148
24	C100024	125 x 55 x 67	318 x 140 x 171			158 x 55 x 67	402 x 140 x 171
	C100024-H	125 x 55 x 77	318 x 140 x 194			158 x 55 x 77	402 x 140 x 194
	C100024-L	125 x 55 x 58	318 x 140 x 148			158 x 55 x 58	402 x 140 x 148
410	C100041	152 x 55 x 67	387 x 140 x 171			185 x 55 x 67	471 x 140 x 171
	C100041-H	152 x 55 x 77	387 x 140 x 194			185 x 55 x 77	471 x 140 x 194
	C100041-L	152 x 55 x 58	387 x 140 x 148			185 x 55 x 58	471 x 140 x 148
512	C100052	182 x 67 x 70	463 x 171 x 178	215 x 67 x 70	547 x 171 x 178		

How much room do you have?



READY-TO-RUN STANDARDS & PROCEDURES

ASTM B117	ISO 9227 (NSS, AASS)	MIL STD 810, 509.7
ASTM G85 A1	Jaguar TPJLR.52.252	MIL STD 883, 1009
BMW AA-0213	Jaguar TPJLR.52.253	Nissan MES-M0007 5.22
EIA 364-31	JIS 2371 (NSS, AASS)	Toyota TSH1552G
EN 13523-8	JIS 8502 8.2, 8.3, 8.11	VW 80000 K-06, K-07
GB/T 10125 (NSS, AASS)	MIL STD 202, 101	
IEC 60068-2-11	MIL STD 331 C3	
ISO 6270-3	MIL STD 750, 1046.3	
ISO 7253		AND MORE
ISO 9022-4		

STANDARDS DRIVEN CUSTOMIZATIONS

Standard	Required Add-Ons	Recommended Add-Ons
ASTM G85 A4 JIS H 8502 10.1	SO ₂ Package (C700900)	Cyclic Controls (P/N Varies)
ASTM B368 ASTM G85 A2 ASTM G85 A3 GB/T 10125 CASS JIS 8502 8.4 CASS JIS 2371 CASS ISO 9227 CASS	High Temperature Package (P/N Varies)	Wet Bottom Drain Assembly
DIN 50018 JIS 8502 8.7	<ul style="list-style-type: none"> • SO₂ Package • Cyclic Controls 	
ASTM D2247	<ul style="list-style-type: none"> • Humidity Pipe Assembly & • Wet Bottom Drain Assembly 	

RECOMMENDED ADD-ONS BASED ON LAB SETUP

Do you have a supply of pressurized DI water?

Bubble Tower DI Holding Tank (add “-AH” to cabinet PN)

For labs without a pressurized DI water supply.



Do you need fog to shut down automatically or when unattended?

Shut Down Timer (C702100) – For labs that need a timer for automatic shutoff of air to the humidifying tower. Time range: 1 minute to 199 hours and 59 minutes.

Do you have proper ventilation?

Scrubber/Jet Exhaust Recirculation System (C260315)

Avoid new ventilation and save up to \$4,910* per year on water / sewage vs a standard scrubber.

** Savings based on 35 operating hours/week comparing a standard 3 GPM constant-flow against a recirculating model 7 gal fill. Assumes average combined water/sewer rate of \$15 / 1,000 gal.*



Scrubber/Jet Exhaust Assembly and Regulator (C260500 + C260510)

For labs without ventilation (city water supply required).

Power Vent (C261820) – For exhaust runs longer than 15 ft; actively pulls exhaust from chamber to maintain proper test conditions.



Do you need higher humidity inside your chamber?

Wet Bottom Drain Assembly (C260455) – This option is recommended for creating higher humidity in the exposure zone by accumulating test solution on the floor of the cabinet.

Scrubber/Jet Exhaust & Regulator + Wet Bottom Drain (C260300)

For labs without ventilation that also require the Wet Bottom Drain Assembly.



- *Custom power configurations available—just let us know your specs.*
- *Get the right racking solution for your samples.*

See the full list of available [Customizations & Add-Ons](#) for more options.



ADDITIONAL SPECIFICATIONS & ORDERING INFORMATION

Model	Cover Lifter Type	Crated Weight	Included Labware		Estimated Daily Use	
			Funnels	Cylinders	Solution	DI Water
15	Gas	1000 lbs	2	2	10 gal	10 gal
21	Gas	1200 lbs	2	2	10 gal	10 gal
22	Gas	1350 lbs	2	2	10 gal	10 gal
23	Air	2000 lbs	4	4	20 gal	20 gal
24	Air	3000 lbs	4	4	20 gal	20 gal
410	Air	3800 lbs	Varies	Varies	30 gal	30 gal
512	Air	Varies	Varies	Varies	35 gal	35 gal

- **Prices quoted are valid for 30 days.**
- Please specify voltage and phase when ordering.
- **Terms:** 50% down payment, 50% net 30 days (pending credit approval). Units are custom-built to meet customer specifications.
- **Shipping:** F.O.B. Origin – Strongsville, OH. Standard shipping arrangements can be coordinated by our logistics team, or customers may choose to arrange their own freight carrier or delivery service. If you elect to manage shipping directly, please provide carrier details at the time of order so we can prepare the equipment for pickup.
- **Delivery:** Lead times will be based on production load at the time of order and receipt of down payment. Please contact the factory to confirm your required ship date.

TEST COMPATIBILITY SNAPSHOT: SFC VS CCT

Test Standard	SFC	CCT	Test Standard	SFC	CCT	Test Standard	SFC	CCT
ASTM B117	●	●	IEC 60068-2-11	●	●	Mazda MCT-1M, 2M, 3M		●
ASTM B368	●	●	IEC 60068-2-18 R2, R3		●			
ASTM D870		●	IEC 60068-2-30		●	MIL STD 202, 101	●	●
ASTM G85 A1-A4	●	●	IEC 60068-2-52 1-8		●	MIL STD 202, 103		●
ASTM G85 A5		●				MIL STD 202, 106		●
			ISO 11997-1 A-D		●	MIL STD 331 C3	●	●
BMW AA-0213	●	●	ISO 11997-3		●	MIL STD 750 1046.3	●	●
			ISO 12944-6		●	MIL STD 810, 509.7	●	●
DIN 50018	●	●	ISO 14993		●	MIL STD 810, 518.2	●	●
			ISO 15187		●	MIL STD 883, 1009.8	●	●
DIN 55635		●	ISO 16539		●			
			ISO 16701		●	Nissan MES-M0007 5.22	●	●
EIA 364-31	●	●	ISO 21207 A & B		●			
			ISO 2812 1		●	SAE J2334		●
EN 13523-8	●	●	ISO 4611		●	SAE J2635		●
			ISO 4623		●	SAE J2721		●
Ford CETP 00.00-L-467		●	ISO 6270-2		●			
			ISO 6270-3	●	●	Toyota CCT / TSH1555G C		●
GMW 14872		●	ISO 7253	●	●	Toyota TSH1552G	●	●
GMW 15264		●	ISO 9022-4	●	●			
GMW 17026		●	ISO 9227	●	●	Volvo VCS 423-0014		●
GMW 3172 9.4.7, 9.4.8		●						
			Jaguar TPJLR.52.252	●	●	VW 80000 K-06, K-07	●	●
Honda HES D6001		●	Jaguar TPJLR.52.253	●	●	VW PV 1200		●
			Jaguar TPJLR.52.265		●	VW PV 1209		●
Hyundai/Kia MS600-35		●				VW PV 1210		●
Hyundai/Kia MS600-66 CCT-A & B		●	JIS 8502 8.2, 8.3, 8.4, 8.7, 8.11	●	●			
			JIS 8502 8.5, 8.6		●			
			JIS 2371	●	●			

Is a Cyclic Corrosion Test Chamber Better Suited to Your Needs?

CUSTOMIZATIONS & ADD-ONS

Description	P/N	Notes
Environmental Control		
Dispersion Tower – Horizontal System	C1006 /15-41	This option has the dispersion towers moved from the center of the exposure zone to the chamber back wall. This helps maximize space inside of the exposure zone for larger parts.
High Temperature Package	C0020 /15-41	This package allows testing at elevated temperatures up to 50 C (122 F). The cabinet is insulated to help retain heat. All components that cannot handle such temperatures are replaced.
Humidity Pipe Assembly	C701700- /15-24	This option is used for ASTM D2247 and other test specifications to generate humidity from the bottom of the cabinet along with the Wet Bottom Drain Assembly (C260455) and a lower water jacket level.
SO ₂ Testing Package	C700900	Injects metered customer-supplied sulfur dioxide (SO ₂) into the condensing fog stream. Flow meter and air-driven pilot valve provide fast, accurate ON/OFF control and precise dosing. This option can be operated manually or automatically with Cyclic Controls.
Wet Bottom Drain Assembly	C260455	This option creates higher humidity in the exposure zone by accumulating test solution on the floor of the cabinet and it also prevents corrosion deposits from test samples drying on the floor lining. This feature includes an inverted trap for the cabinet to drain. A modified option is available for a greater retention of fluid.
Controls & Data Recording		
Standalone Datalogger	C701350	Offers data recording for temperature controls recording data inputs from cabinet RTDs and bubble tower pressure. The data logger is contained in a secure enclosure to help protect it from moisture or direct contact. The information is recorded on an included SD card.
Touchscreen / Cyclic Controls	C701904- /01, 10, 20	Also referred to as Touchscreen Controls. Provides a control system to operate the cabinet in a cyclical manner. This system consists of an electrical panel, an input/output rack and a touchscreen display as an operator interface.
Racking & Sample Handling		
Support Shelf Rack	C2629 /60, 70	These support racks provide a ledge for various support bars, trays, and shelves spanning the cabinet's width. These racks hang on the front and rear walls. The racks are made of rigid welded steel with a durable plastisol protective coating.

Description	P/N	Notes
Racking & Sample Handling		
Support Angles	C2629 /10, 30, 40	L-shaped steel brackets that are 1" x 1" on a side with a durable plastisol protective coating. These can be used for supporting samples or Slotted Test Panel Trays. They span from the front to the back of the inside the exposure zone. These bars rest on the ledges built into the Support Shelf Rack. This option is recommended for supporting heavy samples during testing. Support Shelf Rack Required
Slotted Test Panel Tray	C100324	Fiberglass rack used for holding test panels. The rack is 8.5" wide, 23" long. Holds 2 rows of panels with 20 slots in each row with 1 in. slots. Slots are on a 15-degree angle from vertical. This rack will hold a total of 40 panels. These should be used along with the Support Shelf Rack and Support Angles. This option is useful to those who require a way to hold test panels at the specified angle in the cabinet during testing. Support Shelf Rack and Support Angles Required
Heavy Duty Support Shelves	C2630 /00-30	Separates and protects test samples and cabinet equipment from resting on the floor of the exposure zone. Supports are made of fiber composite that is corrosion resistant, non-conductive, and non-magnetic. These shelves are supported on the Support Shelf Rack. Support Shelf Rack Required
Slotted Support Bars	C2628 /80-00	Slotted polypropylene bars that are 3" x 1.5" with a central drainage channel. Holds standard test panels 3" x 6" or 4" x 12". Slots are 1.8 mm (0.07 in.) saw cuts on both sides in either a 15 degree or 6 degree angle from vertical at 3.8 cm (1.5 in.) spacing. They span from the front to the back of the inside the exposure zone. These bars rest on the Support Shelf Rack. This option is useful to those who require a way to hold test panels at the specified angle in the cabinet during testing. Support Shelf Rack Required
External Condensate Collection Package	C7008 /00, 01	Allows the operator to collect condensation without opening the exposure zone cover. This package includes two or four (depending on cabinet size) 80 cm ² collection funnels and 100 mL graduated cylinders for each dispersion tower, along with tubing and ball valves.
Consumables		
ASTM B117 Salt Solution – 55 Gallons	C173300	ASTM B117 requires a mixed 5% salt solution. This pre-mixed solution can be purchased in a set of four 55-gallon barrels. A Certificate of Analysis is provided for each solution barrel. Purchasing this allows for: less downtime to prepare test solution, simple means of storage, and having a solution with the necessary pH levels



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Description	P/N	Notes
Consumables		
CASS Salt Solution – 55 Gallons	C173320	CASS testing standards require a mixed solution at a specific pH level. This pre-mixed solution can be purchased in a set of four 55-gallon barrels. A Certificate of Analysis is provided for each solution barrel. Purchasing this allows for: less downtime to prepare test solution, simple means of storage, and having a solution with the necessary pH levels
Deionized Water – 55 Gallons	C173305	A set of four 55-gallon barrels containing Type IV deionized water in compliance with ASTM D1193. A Certificate of Analysis for each DI water barrel is provided. Purchasing this allows for: Less downtime to prepare test solutions, and a simple means of DI water storage for labs that don't have access to DI water.
Salt Solution Start-up Kit	701500	Salt mixing solution starter kit that meets ASTM B117 standards. This kit includes: (1) 50-pound bag of salt, (4) Sets of funnels and graduates, (1) specific gravity hydrometer, and (1) Salinometer hydrometer
Maintenance kits	C9200 /10, 20	Part kit for performing necessary routine maintenance.
Training & Certification		
Training class	C910000	A training course to prepare lab personnel on how to conduct a proper corrosion test, troubleshoot, and maintain a standard salt fog cabinet in accordance with ASTM B117. Training will take place at an A2LA-accredited corrosion testing lab. This 8 hour class is taught by experts with over 30 years of corrosion testing, manufacturing, and test writing experience.
Certification Labels	PN C703000	The cabinet is modified to comply with applicable certification standards. An inspector is called to review the unit. Once compliance is verified, the inspector applies the appropriate certification label to the electrical panel of the cabinet.

INSTALLATION & UTILITY REQUIREMENTS

Improper installation will affect chamber performance and compromise test validity.

Electrical

- A qualified electrician must provide a lockable disconnect and run appropriate conduit to support the chamber's amperage. Chambers are available in various voltage and phase configurations depending on model.

Model #	110/1/60	208/1/60	208/3/60	240/1/60	240/3/60	460/3/60	575/3/60
15	34 Amps	21 Amps		20 Amps	18 Amps	7 Amps	10 Amps
21	34 Amps	21 Amps		20 Amps	18 Amps	7 Amps	10 Amps
22	34 Amps	21 Amps		20 Amps	18 Amps	7 Amps	10 Amps
23			34 Amps		30 Amps	15 Amps	13 Amps
24			34 Amps		30 Amps	15 Amps	13 Amps
410			34 Amps		30 Amps	15 Amps	13 Amps
512					30 Amps	15 Amps	

Plumbing

- Water jacket drain: 1.25" copper or galvanized steel
- Chamber drain: 1.25" O.D. PVC
- DI water: 3/8" O.D. poly tubing from a pressurized DI water source (25–100 psi), conforming to ASTM D1193 Type IV
- Compressed air: 3/8" O.D. poly tubing from a clean, dry air source (30–50 psi)

Ventilation

- Exhaust from a salt fog cabinet should NEVER connect to a plenum or duct that serves other instruments. The exhaust from one instrument may end up in the exposure cabinet of another, which will contaminate the test samples.
- Chambers must vent to the exterior (roof or wall)
- Power vent required for runs longer than 15 ft
- Use 1.25" PVC for vent connection

Facility Requirements

- Flat, level floor
- Nearby floor drain
- The temperature range must be 20-25 C (68-77 F). Temperatures outside this range may affect cabinet operation and impact test data.
- Room humidity should be 45 ±10% non-condensing. Humidity outside this range may affect cabinet operation and impact test data.
- If the temperature or humidity are out of the recommended ranges, it may damage the instrument or cause the instrument to operate out of specification for certain test cycles. NEVER allow temperature around the cabinet to approach 0C (32 F) or humidity to exceed 60%.



THANK YOU FOR CONSIDERING AUTO TECHNOLOGY

We don't just build chambers — we drive the standards, run the world's largest corrosion lab, and build the most trusted salt fog systems in the industry.

Our chambers are purpose-built to spec and to simplify qualification.

Chamber	Salt Fog	High Humidity	Advanced Humidity	Ramping Temps	Limited Cyclic Controls	Advanced Cyclic Controls	Drying	Direct Spray	Cooling	Immersion	Gas (e.g., SO ₂)
SFC	x	x			x						x
CCT	x	x	x	x		x	x	x	x	x	x
Walk-In	x	x	x	x		x	x	x	x	x	x
Immersion										x	
MFG											x
MGC											x

Why Industry Leaders Choose Us:

- Over 125 years in coatings and corrosion
- Chambers built to standard for more than 75 years
- World's largest A2LA-accredited contract corrosion test lab.
- A2LA-accredited proficiency provider for corrosion testing.
- Direct system service and calibration support.

Whether you're qualifying a coating, launching a lab, or meeting audit demands, we'll help you test with confidence.

We're here to help you protect your product, your reputation, and your bottom line—with quality, flexibility, and expertise. If you have questions or need support, we're ready to help.

Regards,

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