AUTO Technology

CORROSION SYSTEMS, SERVICES, AND SUPPLIES

M SERIES SALT FOG & HUMIDITY TEST CHAMBERS



PROVEN PERFORMANCE

Fore more than 75 years Auto Technology Company has built the world's most precise, reliable, and customizable corrosion systems.

We also operate the world's largest A2LA-accredited corrosion test lab, delivering proven expertise and results you can count on.

CHAMBER SIZE SUMMARY

Model	Exposure Zone Volume		Exposure Zone Dimensions W x D x H		External Dimensions W x D	
	ft³	l	in	cm	in	cm
15	19	539	22 x 30 x 48	57 x 76 x 121	50 x 37	127 x 94
22	38	1087	45 x 30 x 48	116 x 76 x 121	73 x 41	186 x 105
23	85	2402	72 x 42 x 48	183 x 107 x 121	99 x 54	252 x 138
24	126	3556	93 x 48 x 48	237 x 122 x 121	125 x 55	318 x 140
410	161	4566	120 x 48 x 48	305 x 122 x 121	152 x 55	387 x 140
512	194	5506	144 x 60 x 38	366 x 153 x 98	182 x 67	463 x 171

CUSTOM BUILDS

- Jet Exhaust
- Power Venting
- Shut Down Timer
- SO2 Adder
- High Temperature
- Cyclic Controls
- Humidity Pipe
- Wet Bottom Drain
- Data Logging
- Low Profile
- High Profile
- Horizontal Dispersion

ENGINEERED FOR ACCURACY

The Auto Technology M Series chambers are engineered for ASTM B117 and ISO 9227. The B117 specified water-jacket heating system ensures temperature stability and uniform fog, creating the ideal environment for repeatable, reliable results.

Beyond B117, the M Series can be tailored to support a broad spectrum of corrosion test standards and procedures.

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	SFC-15	SFC-22	SFC-23	SFC-24	SFC-410	SFC-512
Chamber Volume (ft^3 / L)	15 / 434	31 / 875	68 / 1933	101 / 2862	130 / 3676	194 / 5506
Solution Reservoir	55 gal (208 L)					
External Dimensions W x D x H (in / cm)	83 × 37 × 61 / 211 × 94 × 155	106 × 41 × 63 / 270 × 105 × 161	132 × 54 × 67 / 336 × 138 × 171	158 × 55 × 67 / 402 × 140 × 171	185 × 55 × 67 / 471 × 140 × 171	215 × 67 × 70 / 547 × 171 × 178
Weight (crated lbs.)	~1000	~1350	~2000	~3000	~3800	varies
Chamber Temp Range	Ambient - 65 °C[1]					
Bubble Tower Temp Range	Ambient - 70 °C					
Humidity / RH	95-100% during fogging					
Collection Rate	1.0–2.0 mL/h per 80 cm^2					
Inlet Water Purity	ASTM D1193 Type IV DI only					
Inlet Water Pressure	15–30 psi (103–207 kPa)					
Water Consumption[3] (daily gal)	~10 gal	~20 gal			~30 gal	~35 gal
Vent Connections	1¼ in.					
Drain Connections	Chamber: ½ in. Water Jacket: 1 ¼ in. Solution Reservoir: ½ in.					
Fill Connections	Water Jacket: ½ in. Bubble Tower: 3/8 in. OD poly tubing Solution Reservoir: ½ in.					
Compressed Air	65–85 psi (448–586 kPa), clean/dry; 3/8 in. OD tubing[4]					
Internal Dimensions W x D x H (in / cm) [5]	22.65 × 30.27 × 38.64 / 57.5 × 76.9 × 98.1	45.65 × 30.27 × 38.64 / 116 × 76.9 × 98.1	72.27 × 42.25 × 38.64 / 183.6 × 107.3 × 98.1	93.65 × 48.27 × 38.64 / 237.9 × 122.6 × 98.1	120.27 × 48.27 × 38.64 / 305.5 × 122.6 × 98.1	144.27 × 60.27 × 38.64 / 366.4 × 153.1 × 98.1
Electrical	120 V, 208 V, 240 V, or 480 V; 1- or 3-phase[6]					
Lab Temperatures	20–25 °C (68–77 °F), 45 ±10% RH, climate-controlled lab only[7]					

Footnotes

1. Cabinet operates at an operator set temperature. High temperature package required for temperatures that exceed 40°C
2. Varies based on air pressure, throttle holes, the inverted cone assembly, and the temperature set point for the bubble tower
3. Daily water usage varies with test duration.
4. Compressed air must be clean and dry and supplied to the solution tank and bubble tower; install oil/water separator filter.
5. Also available in low- and high-profile configurations.
6. Phase and voltage combinations vary. Voltages ±10%, 50/60 Hz.
7. Chamber performance depends on stable ambient conditions. Operate only in climate-controlled labs.

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Why Auto Technology Company is the best place for corrosion systems.

Corrosion testing is in our DNA: 125 years of science and over 75 years of building chambers.

We design and build chambers to meet the spec, but we also specialize in custom builds.

We provide in-house calibrations and system service.

Our management is hands-on in engineering, sales, and standards development, so you always deal directly with decision makers.

And most importantly, we use the same chambers in our own test lab, some still running flawlessly after 20 years.

Made in the USA, backed by USA-based service and supplies, so you can count on fast, reliable support.



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