

For MIL-STD-810G/H and IP Watertightness Tests



Our rain test chambers are designed for testing of watertightness of several mechanical and electrical devices, cables, connectors etc.

These chambers meet the requirements of the MIL-STD-810 G/H Standard (Method 506.6 Procedure II, III) which defines required tests, for military use. Within the scope of test procedures described in the standard, the chambers reproduce exaggerated rain (procedure II) and drip type (procedure III) water falls (as rain droplets) on the test item.

The units are also suitable for Ingress Protection Tests (IPX3, IPX4, IPX5 and IPX6) according to the IEC 60529 standard.

APPLICATIONS

Device/Cable Assembly Watertightness Testing
Military Spec (810G) Rain Testing
Ingress Protection Tests (IPX3, IPX4, IPX5 and IPX6) in IEC 60529

KEY FEATURES

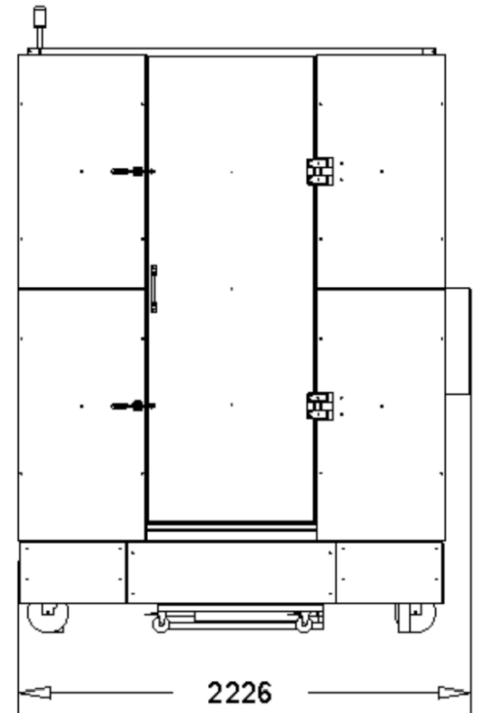
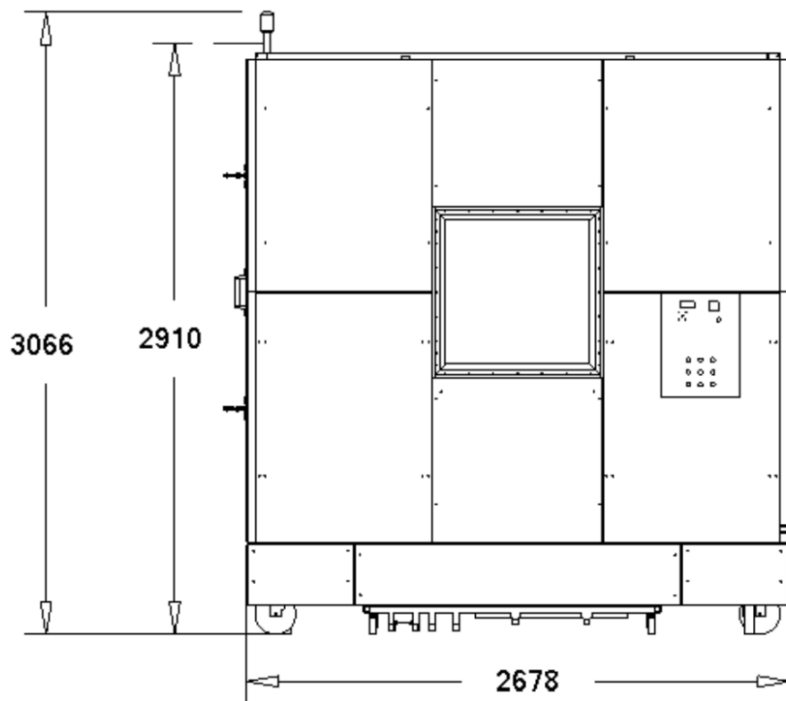
MIL-STD-810G Rain Test (Exaggerated Rain And Drip)
Cost-Effective Solution
Stainless Steel 304 for All Water Contact Surfaces and Mainframe Construction
High Quality Brass Full-Cone Nozzles
Double Pump System (for Equal Wear)
Touchscreen HMI Control Unit
Three Large Windows
Mobile with Castor Wheels



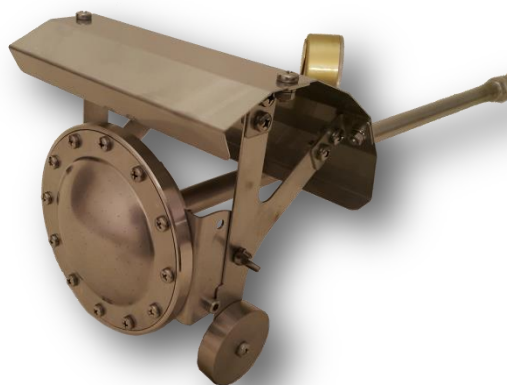
TECHNICAL SPECIFICATIONS		
Model Designation	RTC-M1-020	RTC-M1-023
General		
Overall Dimensions	2678 mm (W) x 3066 mm (H) x 2226 mm (D)	
Interior Dimensions	2460 mm (W) x 2210 mm (H) x 1880 mm (D)	
Test Specimen Dimensions	1000 mm (W) x 1000 mm (H) x 400 mm (D)	
Cabinet Type	Walk-in	
Door Dimensions	2180 mm (H) x 720 mm (W)	
Weight	< 1500 kg	< 1800 kg
Circulation Tank Capacity	240 lit	
Test Methods	Exaggerated Rain Test (MIL-STD-810G Method 506.6 Procedure II)	Exaggerated Rain Test (MIL-STD-810G Method 506.6 Procedure II) + Drip Test (MIL-STD-810G Method 506.6 Procedure III)
Drip Test Area	-	1050 mm (W) x 450 mm (D)
Materials		
Interior	Stainless Steel 304 for Water Contact Surfaces and Mainframe Construction	
Fasteners	Stainless Steel (A2)	
Exterior Finish	Steel Outer Coverings (Powder Coated)	
Nozzles	High Quality Brass Full-Cone Nozzles	
Electrical		
Operating Voltage	AC 220V	AC 220V
Pump Power Consumption (Exaggerated Test)	2.2 kW	2.2 kW
Pump Power Consumption (Drip Test)	-	0.15 kW
Number of Pumps (Alternating Pumps for Equal Wear)	Two	Two (for Exaggerated Test) + Two (for Drip Test)
Lighting	Ceiling Lamps (3 x 30W LED)	
Environmental		
Operating Temperature	10 – 40 °C	
Storage Temperature	-10 – 55 °C	
Location	Indoor Use Only!	
Control		
Control Unit	PLC	
Display	7" Touchscreen HMI	
Miscellaneous		
Warranty		
Viewing Windows	Three Glass Windows (60 cm x 60 cm)	
Max Allowable Specimen Weight	300 Kg	
Mobility	Four Castor Wheels (with brake)	
Cable Entrance Ports	Standard	
Emergency Stop	Standard	
Nozzle Assembly Components	Dial Pressure Gauge, Pressure Regulator, Quick Connect Nozzle	
Nozzle Assembly Positions	Manually Adjustable (Horizontally)	
Mechanic Water Filters	Standard	
LED Tower (for Warning Signals)	Standard, Top Mount (or its position can be changed upon request)	
Entrance Ladder	Standard, Two-Step	
Accessories (Optional)		
IP X3, X4 Nozzle Heads	Handheld Water Spray Nozzle	
IP X5, X6 Nozzle Heads	Handheld Water Jet Nozzle	
Base Table for Test Specimens	Custom Production	
Hanging Apparatus for Test Specimens	Custom Production	

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DIMENSIONS



ACCESSORIES



Stainless Steel IPX3, IPX4 Nozzle Heads



High Quality Brass IPX5, IPX6 Nozzle Heads