



## Chapter 1: The Technical Parameters for Wewon's Rain Test Chambers Model: WE-LY-1000C

01.	<b>Product Application:</b> The IP X3, X4 Rain Test Chamber is suitable for external lighting & signal devices & automotive lamp shell protection test.
02.	Product Name: Programmable Rain Test Chamber for IP X1 X2 IP X3 X4 IP X5,X6 IP 9K, Test/ Water Spray/IP Waterproof Grade Test Device.
03.	Environmental Chamber's Model: WE-LY-1000C
04.	<b>The Dimensions:</b> 1000 x 1000 x1000mm (W x D x H)
05.	Volume 1000 L; (Wewon Environmental Chambers Co., Ltd. Copyright)
06.	External Dimensions of Approximately: 1300 x 1450 x 1960 mm (W x D x H)
07.	<b>Test Bench Area:</b> Ø400mm
08.	Pipe's Hole Size: The number of holes 25 pcs
09.	Pendulum Tube Water Hole: Ø 0.4mm (Described when ordering)
10.	Spray Hole Spacing: 50mm; (Can be adjusted according to customer's spec)
11.	Spray Ring Radius: 400mm; Inner Diameter of Spray Pipe: Ø16mm
13.	Swing Angle Range: 0° ~330° can be set
14.	Swing Speed Adjustment: 0~20 times can be set
15.	Water Pressure: 80Kpa-- 100 Kpa; Test Bench Speed: 1~10r/min
16.	Water Supply Quantity: Adjusted according to IPX3, IPX4 Testing
18.	Swing Angle: 120°(IPX3), 350°(IPX4), or Customize
19.	Swing Pipe Material: SUS 304; Turntable Speed: 1-5r/min(Accurate Control)
20.	Standard: IEC60529; GB/T 16422.38, ASTM/ISO/ROHS/GB Certification
21.	Nozzle Diameter: IP1/2= 0.4mm; IP3/4= 0.4mm; IP5/6= 6.3mm; 12.5mm
22.	IP X1/X2 Main Technical Parameters: Dropping water area and dropping height can be ordered according to the real product's size. Dropping water's strength is 1.9~ 3.5 L/h, dropping water aperture is Ø 0.4mm, Hole's pitch is 25mm.
23.	<b>IP X3/X4 Main Technical Parameters:</b> The pendulum pipe radius can be ordered according to product's size. Pendulum pipe's radius can be 200mm, 400mm, 600mm, 800mm, 1000mm, 1200mm, 1400mm, 1600mm... Each drop nozzle spray total is 0.07L/min.
24.	IP X5/X6 Main Technical Parameters: 6.3mm nozzle spray total is 12.5L/min, 12.5mm nozzle spray total is 100L/min, Spray distance is 2.5~ 3 M



## Chapter 2 Control System Mechanical Structure Design for Rain Test Chamber WE-LY-1000C

01.	Inner Box Material: Heatproof and cold resistance stainless steel plate with circumferential welding (SUS # 304)
02.	Control Mode: Adopting the digital display table control, and set the parameters automatically according to the test requirement.
03.	Observation Window: Install multi-layer hollow rectangular insulated glass windows (310 × 420mm) and there is energy-efficient LED lighting on the window. (Wewon Environmental Chambers Co., Ltd. Copyright)
04.	Sample Bearing Course: Sample on one layer is not more than 30 kg; Standard: GB/T 2423.38-2006/IEC 60068-2.18:2000
05.	Operation Mode: IPX3, IPX4 Independent control, Manual Operation
06.	Control system with waterproof protection in order to avoid leakage accident. In this way, Keep the operators safe guarantee.
07.	Machine Positioning: There are installation of four high-loading corner bearing pulleys and PU wheels at the bottom of the machine to facilitate moving the machine. (Wewon Copyright)
08.	Cabinet Structure: Taiwan imported plane embedded rotatable knob; (1)Hinges: Original Japanese imported, to prevent shaking from the door, made of SUS 304; (2)Energy-saving LED 18W inside, to make four corners of the test items observed clearly; (3)High-low temperature resistible high tensile silicone foam ; (Wewon Copyright)



## Chapter 3: Inner Structure Description for Wewon's Rain Test Chamber Model: WE-LY-1000C

Water Tank	1. Water tank uses SUS304 stainless steel, which was installed on side of test devices. The capacity of tank could meet test water.
	2. Automatic water supply device for water tank. When the water level of the water tank is lower than the safe water level, the water tank can be automatically supplied by the external water supply.
	3. Water shortage alarm function for water tank. When the water level in the water tank is lower than the water inlet of the circulating water pump, pump stops working and alarm.

	4. Water gauge for tank. Water gauge is arranged in the front surface of the box, you can always watch the water tank
	5. An overflow port & a drain port are provided and a manual valve is arranged at the end of the overflow pipe and the drain pipe.
	6. Water tank can be disassembled & cleaned, The corresponding joint or hose connection is arranged in the water pipe connection.
	7. The water filter is arranged on the external water supply side of the water tank, and the impurities in the filter water can be observed directly. (Wewon Environmental Chambers Co., Ltd. Copyright)
<b>Water Pump:</b> Water pump uses high pressure stainless steel pump, ensure water pressure and flow of the test cycle, the pump is installed in the side of the IP test device, and both ends of the inlet and outlet to set up the joint, easy to replace and repair.	
Internal Circulation Pipe System:	1. The internal circulation pipe system is equipped with a water quality filter, a glass flow meter, a pressure gauge, a drain valve, and a filter, the pressure gauge can be directly observed.
	2. The filter, pressure gauge and glass flow meter are set up loose joint and easy to be changed.
	3. Water flow is controlled by the glass flow , automatic control the water flow and ensure the safe operation of the pump.
	4. SUS304 stainless steel material used in internal circulating pipe and connecting parts, which ensure the required water quality.
<b>Work Conditions:</b>	Water Supply: Drinking Water; (Wewon Copyright)
	Water Supply Pipe: $\varnothing$ 20mm; Water Flow: $\geq$ 1T/h
	Drain Pipe: $\varnothing$ 25mm; (Wewon Environmental Chambers Co., Ltd. Copyright)
	Power Supply: AC380V $\pm$ 10%/50Hz/4.5KW, Three phase, Five wire
	Place: Cement floor, drainage trench (detailed requirements see design plan), Load 1T/m <sup>2</sup>
	Wall: Brick structure; (Wewon Environmental Chambers Co., Ltd. Copyright)



**The advantages what WEWON Chamber have, But China Supplier don't have is : WEWON Environmental Chambers Have Remote Monitoring And Control Via Ethernet Connection :**

With the Ethernet Port's help, The user can monitor the Wewon's testing chamber by computer way. You can set programs and start and stop operation from a PC connected to Wewon's testing chamber with Ethernet port's help. (With LAN' Port)