



Touch Screen

Salt Spray Corrosion Test Chamber

Operator's Manual

Read before Operation

Before operation this machine, please read this manual thoroughly, and keep a copy with the machine for future reference. This manual is to be considered part of your machine.

Model: NG-YWP



Preface

Thank you for choosing our products, our company will not only provide you with excellent quality products, but also provide reliable, first-class after-sales service. In order to ensure the personal safety of the operator and the integrity of the instrument, before using the instrument, please read this manual carefully and pay attention to the relevant precautions. This manual describes in detail the design principle of this instrument, the standards based on, structure, operation norms, maintenance, possible failures and their treatment. Any reference to 'test regulations' or 'standards' in this manual is for reference only. If you have any objections, please refer to the relevant standards or information by yourself.

This instrument has been inspected in detail by the factory staff before packing and shipping to ensure that the quality is satisfactory. However, even though the packaging is able to withstand the shocks caused by unloading and transporting, the instrument may still be damaged by violent shocks. Therefore, upon receipt of the instrument, please check the instrument body and spare parts carefully for any damage. If there is any damage, please provide a comprehensive written report to our marketing service department, and we will deal with the damaged equipment for you to ensure the quality of the instrument is qualified.

Please follow the instruction manual for inspection, installation and commissioning. The instruction manual should not be thrown away, and should be kept properly for future reference!

Users in the use of this instrument, if the instrument design deficiencies and improvements have any comments and suggestions, please inform the company.

If you have any comments or suggestions on the shortcomings and improvements of this manual, please call us directly.

Special Disclaimer:

This manual is not to be used as a basis for making any claims against the Company.

The right to interpret this manual rests with the Company.



I. Technical parameters

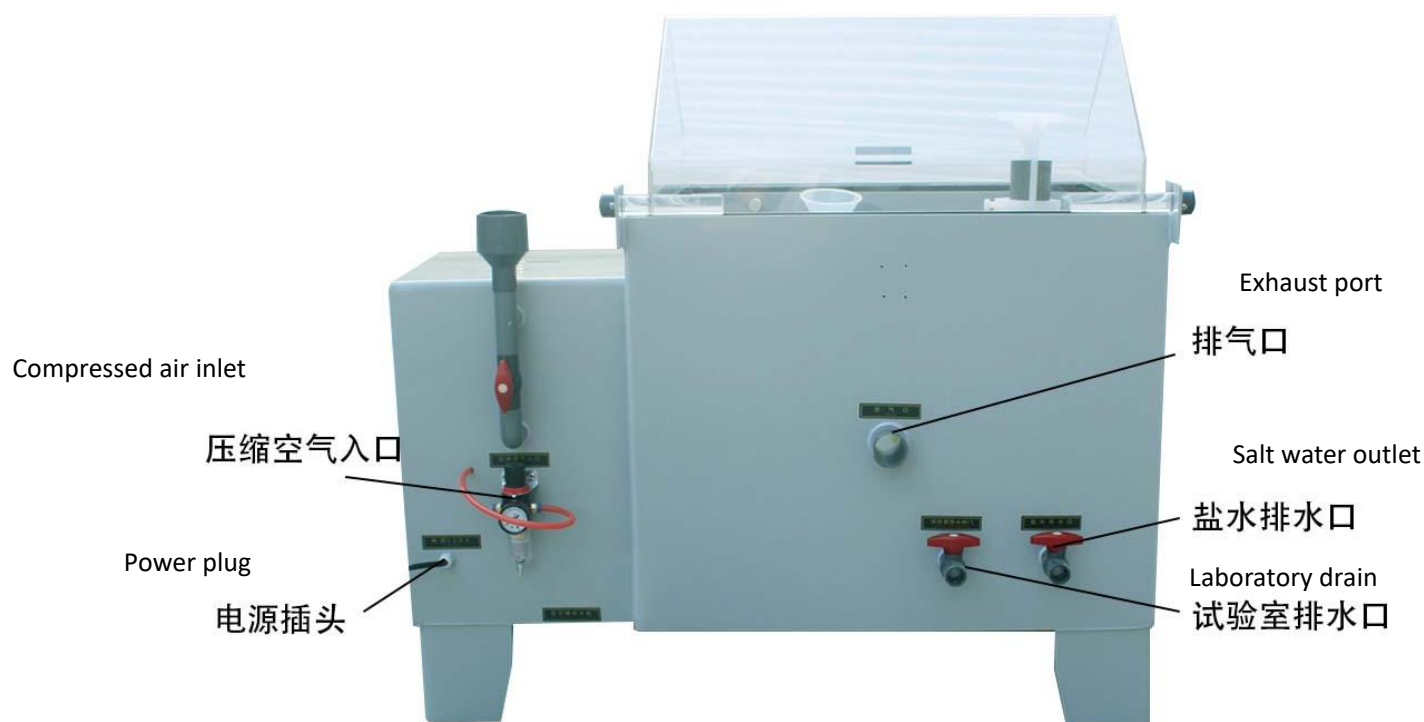
Model	NG-YWP60
inside dimension	600*450*400mm
external dimension	1070*630*1180mm
Spray volume	1.0-2.0ml/h
Relative temperature of the laboratory	> 85%
Volume of laboratory	108L
Saline tank volume	15L
source	AC220V 10A
Laboratory temperature	Saline test $35^{\circ}\text{C} \pm 1^{\circ}\text{C}$ /corrosion resistance test $50^{\circ}\text{C} \pm 1^{\circ}\text{C}$
Air saturation tank temperature	Saline test $47^{\circ}\text{C} \pm 1^{\circ}\text{C}$ /corrosion resistance test $63^{\circ}\text{C} \pm 1^{\circ}\text{C}$
ph	Saline test (6.5-7.2)/ corrosion resistance test (3.0-3.2)



II. Whole machine



4-1 front
view



4-2 Rear view

**III. Introduction to the structure**

Inside the laboratory	
Pump tower:	The built-in glass nozzle is placed inside the nozzle, and the spray is guided by the tower tube and then dispersed to the interior of the laboratory through the conical disperser.
Spray regulator:	Adjust the size of the spray volume, increase the spray volume by adjusting it up, and reduce the spray volume by adjusting it down. The salt water preheating tank is located at the bottom of the spray tower. The salt water in the tank is flowing from the test medicine inlet. The water level in the tank is controlled by a float ball, which can automatically control the water level. There is a drainage port for cleaning at the bottom of the tank, which is controlled by a silica gel plug.
accumulator:	The amount of mist sprayed by the nozzle falls into a funnel cup with an 80cm ² free fall, and then flows into a measuring cup through a conduit.
luggage carrier:	This frame is made of plastic steel, so the weight of the focus should not exceed 2Kg. If placed in a dispersed manner, it can withstand up to 10Kg.
Heating water tank:	The laboratory hot water tank equipped with U-shaped heating tube is used to heat water and keep the laboratory temperature stable. Its function is heating and heat preservation.
gauging tank:	Collect the amount of spray for each test.
water seal tank:	A 5CM wide water tank around the transparent acrylic cover is added to seal the water to prevent salt spray leakage.
Saturation air tank:	Placed inside the control box, its function is to heat the air through this bucket. Humidify the air, so that the air reaches the saturation humidity and then spray from the nozzle.
Test entry:	Automatically replenish the salt solution in the salt water preheating tank.
Test cover:	The roof is sloped at 100 degrees and the perspective cover is used to cover the laboratory as a whole.



pressure regulating valve:	This valve is used to adjust the spray pressure, which can only be adjusted when the spray switch is open and the machine is operating normally (laboratory condition 1Kg/cm ²)
pressure gage:	The pressure indicated by the pointer in this table is the pressure reached when the air is heated by the saturated air tank and conveyed to the nozzle. (Test condition 1Kg/cm ²)
escape-pipe:	The diameter of the exhaust pipe is 48MM, and the salt spray from the laboratory is discharged through this hole. It is best to connect a hose to lead the salt spray to the outside when doing the test. It must not be blocked or waterlogged.
Laboratory drainage valve:	The red ball valve is equipped with 4 PVC water pipe. When the laboratory water is dirty and needs to be replaced, open this valve.

IV. Control panel

4.1 Introduction to the system main screen

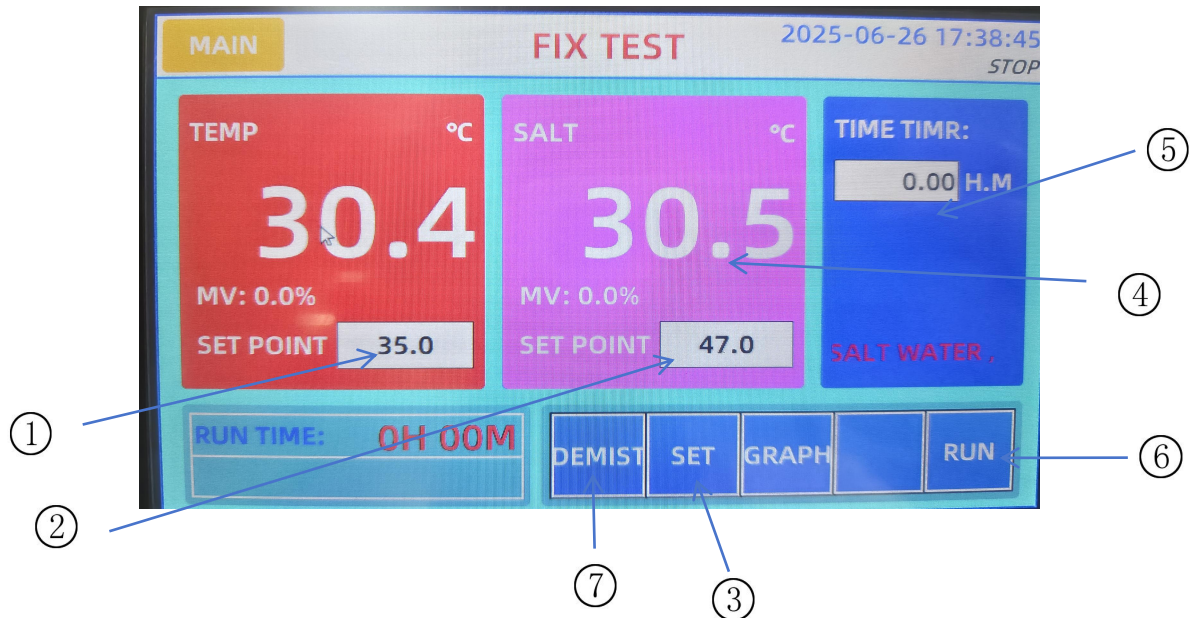
The system main screen is shown in Figure [2-1] after booting up the computer



Figure [2-1] System main screen



4.2 Fixed value (FIX) experiment

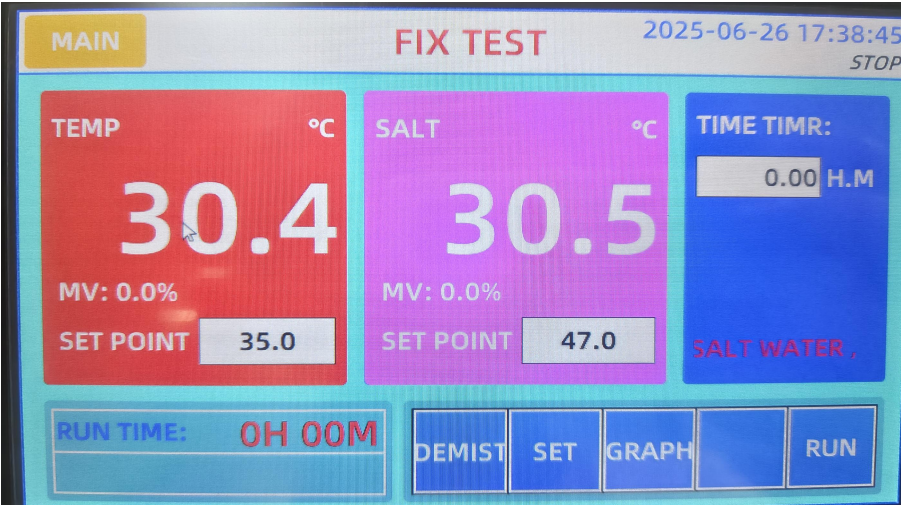


2.1 Fixed value stop screen

Serial number	Content	Illustrate	Remark
①	Laboratory temperature setpoint	Display or enter the current temperature setting value.	Refer to 1.1 Setting value input method to input the setting value to be operated.
②	Pressure tank temperature setting value	Display or enter the current temperature setting value.	
③	Fixed value setting	Set fixed value operation information and status	
④	Temperature display value	Display current temperature	
⑤	Humidity display value	Display current humidity	
⑥	Run Key	To display this key before setting the value	
⑦	Defogging button	Set the fixed value to run or stop, whether to perform defogging	



4.3 Fixed value operation screen

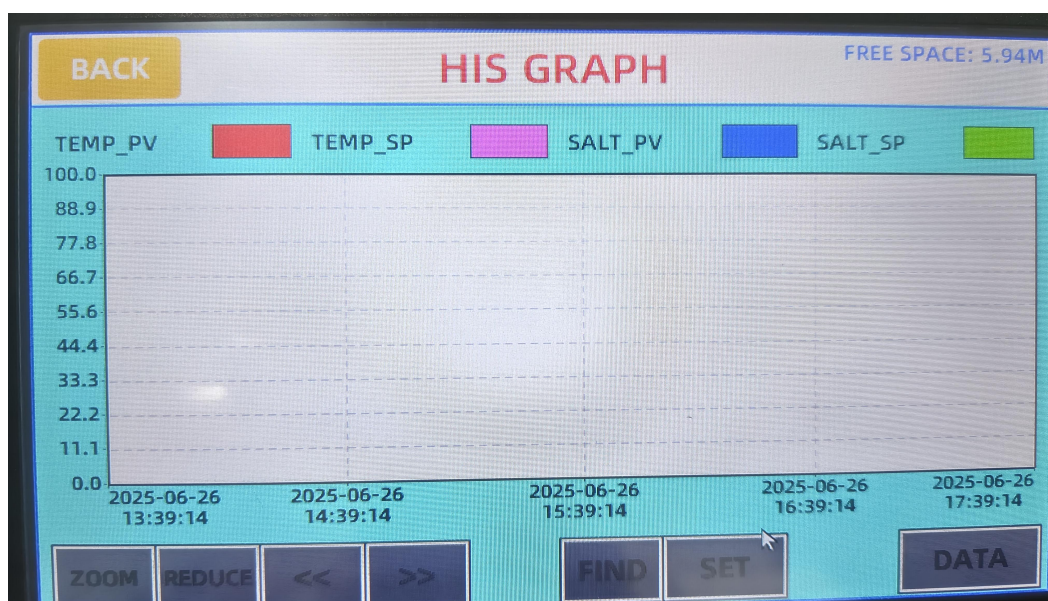
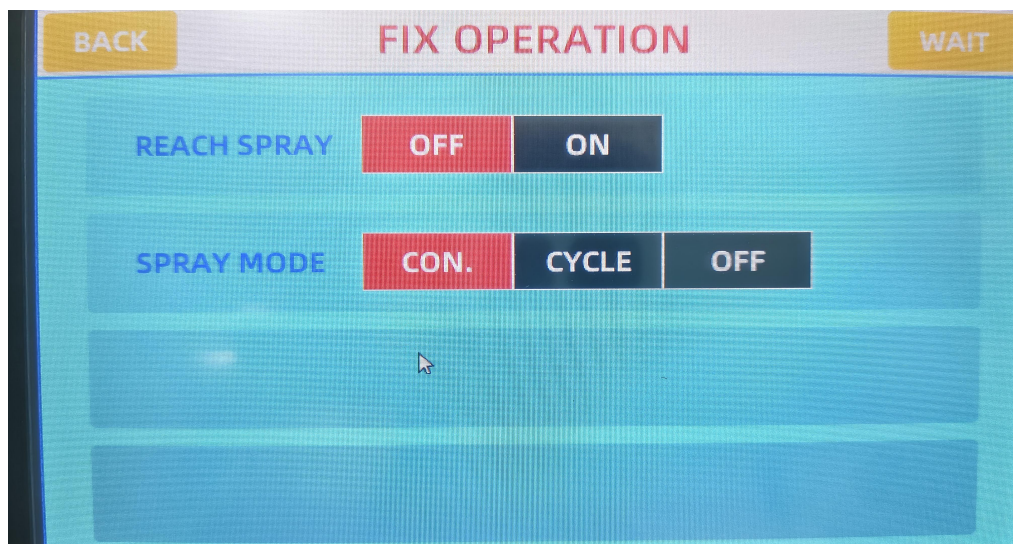


Serial number	Content	Illustrate	Remark
①	Run time	Display current running time	When spraying, the word "SPRAY" will appear in red.
②	Setting Key	Click the setting button to spray manually	
③	Temperature output	Displays the current temperature setting value and output status.	
④	Stop button	Press this key to stop the fixed value operation.	



V. Fixed value setting

In the fixed value operation screen, click the setting button to enter the parameter setting screen.



**Guangdong Newgoer Instrument Co., Ltd**

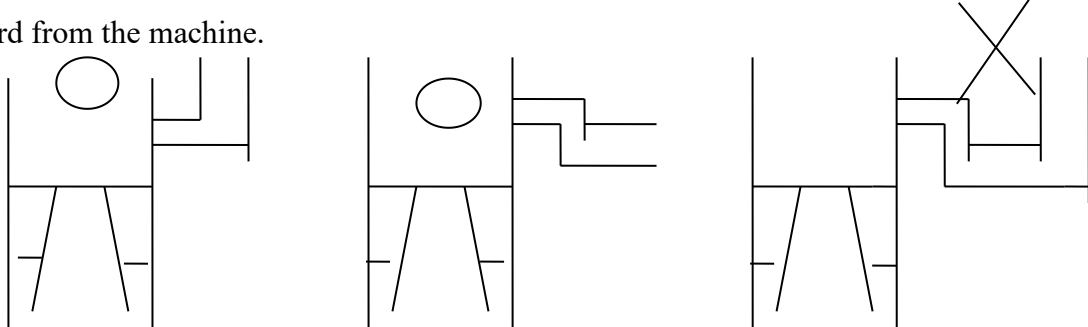
Add: NO.16, Shuijiao Gongye Road, Lichuan, Dongcheng,
Dongguan City 523000, Guangdong CHINA

MAIN	FUNCTION SET1		NEXT
POWER MODE	STOP	HOT	
TEMPEX.T SET	70.0 °C	SALTEX.T SET	70.0 °C
END DEFOG	OFF	ON	
DEFOG TIME	0.01 H.M		

MAIN	FUNCTION SET2		NEXT
LANGUAGE	中文	ENGLISH	
KEY LOCK	OFF	ON	
LIGHT OFF	10 M		
TOUCH CALIBRATION			



IV. Installation and precautions

1、	Power supply 220V single phase 10A.
2、	The machine should be placed about 50cm behind the wall, and the space for maintenance should be left on both sides.
3、	If the external wire is the main power line 2.5mm ² and the power line is before, please install a fuseless switch or switch (about 10A) again.
4、	The drain pipe can be discharged by PVC hard pipe or soft pipe, and it should be noted that the water pipe should go down.
5、	The exhaust pipe should be PVC hard pipe or hose, extending to the outdoor discharge. Attention should be paid to the installation of the exhaust pipe, which can be parallel upward or parallel downward from the machine. 
6、	The installation position of the machine should be avoided from direct sunlight to avoid affecting the test conditions.
7、	The installation position of the machine should be as far away from other electrical equipment or inflammable articles as possible to avoid danger.
8、	This machine is made of PVC plastic. Do not collide with force to avoid rupture. Do not exceed the test standard range for use temperature to avoid deformation due to overheating.



V. Operating Instructions

1、	Plug in the power plug and insert the 8MM air tube into the compressed air inlet.
2、	Turn on the power switch, and if there is no water in the test tank, salt water tank, or pressure tank, you must first add water and salt water to each part that is missing.
3、	Low water level alarm in the laboratory: it indicates that there is a lack of water in the laboratory and water needs to be added (tap water is sufficient) until the alarm in the laboratory stops.
4、	Low Water Level Alarm for Pressure Tank: This indicates that the pressure tank is running low on water. The pressure tank is hidden inside the distribution box, so we cannot see it directly. To add water, you can manually add water from the designated port on the pressure tank. Before adding water, open the red ball valve at the back first. Once the water level reaches the low water level alarm, stop adding water. After adding the water, remember to close the red ball valve. (Tap water can be used)
5、	Low salt water alarm: indicates that there is no salt water in the salt water tank. We need to mix the salt water and inject it from the test drug inlet until the low salt water alarm stops. (The method of salt water configuration is as follows)
modulator approach:	Mix 500g of sodium chloride with 9.5L of pure water and stir evenly with a rod.
6、	Fill the water seal tank with enough water to cover the sides of the transparent acrylic lid.
7、	After all the water is added, you can then turn on the operation switch. The temperature of the laboratory and pressure tank will be displayed. Set the laboratory temperature to 35°C and the pressure tank temperature to 47°C. Once the temperatures are set, place the V-shaped rack and the black O-shaped



	support rod on top. Place the workpiece to be tested on these two layers and close the lid.
8、	After placing the product, you can turn on the spray switch. Once the spray switch is turned on, the pressure gauge will display the pressure. Adjust the pressure regulating valve at the front to set the spray pressure to 1Kg/cm ² . (Note: The spray pressure must never exceed this value; do not exceed 1Kg/cm ² , as overpressure can easily cause the pipe to burst. The pressure set for the compressed air inlet is 2Kg/cm ² .)
9、	First, set the time to be tested on the screen, set it up and turn on the start switch. The test will end automatically when the time is reached.

IX. Maintenance matters

1. If the test period is more than 1 month, please replace the water in the heating tank.
2. If the salt solution used for the test has not been used for more than 1 month, please do not use it again to avoid affecting the quality of the test.
3. If there is a long period of time before the next test, please clean the inside of the laboratory and drain the water in the heated water tank after the test is completed.

Drain the water from the heated water tank. ----- Open the drain valve.

Drain the water in the isolation tank ----- Pull up the centre silicone plug.

Preheat the water drain in the sink ----- Remove the inner silicone plug.

In order to ensure the standard of test quality, please replace the glass nozzle periodically within 2000 hours of use.



X. Quality Assurance

I 、 The guarantee period is twelve months (consumer goods and travel cost are not included).

II 、 The main quality warranty maintenance certificate

1. Please keep this guarantee letter, if you lost it, please connect with us in a month.
2. If this guarantee letter has been altered or it has no our stamp, it is useless.

III、 The following conditions need to pay reasonably even in the assurance period.

1. Natural reasons
2. Operating mistakes
3. Voltage is not fit for our operation instruction
4. Repack it without our guides
5. Damaged for borrowing to others
6. Damaged for authorized machine modification
7. Damaged for authorized calibration
8. Authorized transshipment mistake
9. Serve for long distance area

IV、 Notes:

1. Where the original in Guangdong province installation of our products, if the product moved to outside Guangdong-area use, whether or not within the effective warranty period, the transportation and travel expenses of the service personnel should be paid by the client.
2. All customers outside of Guangdong province, whether or not in the warranty period, the service of transportation and travel expenses paid by the customer.