





























Refer to below figure.

	Set	Actual
Temp.	30.5	
Speed	1500	
Timer	07:00	
Prog.		

	Set	Actual
Temp.	30.5	30.5
Speed	1500	800
Timer	07:00	06:59
Prog.		RUN

### 5.3.2 Multiple Step work without Saving

a The program set in the single step is the first step

by default. Refer to below figure.

	Set	Actual
Temp.	30.5	
Speed	1500	
Timer	07:00	
Prog.	1-1	

b Push the Prog. button, start to set the second step. The last line of in the Set column shows 1-2 now. Refer to below figure.

	Set	Actual
Temp.	----.-	
Speed	-----	
Timer	--:--	
Prog.	1-2	

Note: Before the setting of the second step complete, system consider there is only one step by default. But after the setting complete, the actual steps will be shown correctly. Refer to below figure.

	Set	Actual
Temp.	30.5	
Speed	1500	
Timer	07:00	
Prog.	2-2	

c In the same way, complete the later steps. Then push the adjustable knob to start work. Refer to below figure.

	Set	Actual
Temp.	30.5	30.5
Speed	1500	800
Timer	07:00	06:59
Prog.	2-2	RUN

Note: (1)After rotate the adjustable knob to set the parameters, please wait 3 seconds, parameters will take effect automatically.

(2)Before the time is set, the step will not take effect. If set time to 00:00, it means continuous working mode.

(3)Before complete the setting for the current step, can't enter next step.

### 5.3.3 Program with Saving mode

Programming method is similar with Multiple Step without Saving mode. After the programming complete, long push the adjustable knob, program name characters flash (refer to the red part in below figure). Rotate the

Adjustable knob to input the number of the name, then push the adjustable knob to complete the input. The program saving is complete now.

	Set	Actual
Temp.	30.5	
Speed	1500	
Timer	07:00	
Prog.	P1	5-2

### 5.3.4 Working mode

Refer to the figure, Set column in the left shows the set parameters, the Actual column in the right shows the actual temperature and speed. In timed working mode, the time shows the countdown time. In continuous working mode, the time show running time. Refer to below figure.

	Set	Actual
Temp.	30.5	30.5
Speed	1500	1500
Timer	07:00	06:59
Prog.		Run

In Multiple Step Without Saving mode, Prog. shows the program and step number. Refer to the figure, there are 5 steps totally, now it's the second step. Refer to below figure.

	Set	Actual
Temp.	30.5	30.5
Speed	1500	800
Timer	07:00	06:59
Prog.	5-2	RUN

In Multiple Step with Saving mode, it shows P1, 5-2, which means program 1 has 5 steps,



currently running the second step. Refer to below figure.

	Set	Actual
Temp.	30.5	30.5
Speed	1500	800
Timer	07:00	06:59
Prog.	P1 5-2	RUN

without temperature control function. If Timer is set to 00:00, it means work continuous. If speed is set to ----, it means work without mixing function.

### 5.3.5 Load Program

In the power on state, long push the prog. button , enters the load program mode. Rotate the adjustable knob to show the saved program, from P1 to the last, at most 9 programs. Switch to the program you want, and short push the prog. Button to check the program in detail. Then push the adjustable knob to start the program.

### 5.3.6 Single function running

If Temp. is set to ---.-, then it means working

## 6 Trial Run

- Make sure the required operating voltage and power supply voltage match.
- Ensure the socket must be properly grounded.
- Add the medium into the vessel
- Place vessel on the block.
- Plug in the power cable, ensure the power is on and begin initializing.
- Set the target parameters or programming
- Start working
- Observe the LCD display
- Stop working, and power off.

If these operations above are normal, the device is ready to operate. If not, the device may be damaged during transportation, please contact manufacturer/supplier for technical support

## 7 Faults

- Instruments can't be power ON
  - Check whether the power line is unplugged
  - Check whether the fuse is broken or loose
- Fault in power on self test
  - Switch OFF the unit, then switch ON and reset the instruments to factory default setting.

*If these faults are not resolved, please contact manufacturer/supplier.*

## 8 Maintenance and Cleaning

- Proper maintenance can keep instruments working properly and lengthen its lifetime.
- Do not spray cleanser into the instrument when cleaning.
- Unplug the power line when cleaning.
- Only use recommended cleansers:

Dyes	Isopropyl alcohol
Construction	Water containing tenside /

materials	Isopropyl alcohol
Cosmetics	Water containing tenside / Isopropyl alcohol
Foodstuffs	Water containing tenside
Fuels	Water containing tenside

- Before using other method for cleaning or decontamination, the user must ascertain with the manufacturer that this method will not harm the instrument. Wear the proper protective gloves during cleaning of the instrument.



**Note:**

- Electronic device can not clean with cleanser.
- If you require maintenance service, must be cleaned the instrument in advance to avoid pollution of hazardous substances, and to send back into original packing.
- If the instrument will not use for a long time, please switch off and place in a dry, clean, room temperature and stable location.

## 9 Associated Standards and Regulations

Construction in accordance with the following safety standards:

EN 61010-1

UL 3101-1

CAN/CSA C22.2(1010-1)

EN 61010-2-10

Construction in accordance with the following EMC standards:

EN 61326-1

Associated EU guidelines:

EMC-guidelines: 89/336/EWG

Instrument guidelines: 73/023/EWG

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Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is

operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## 10 Specifications

Functions	Heating&cooling & mixing	Heating & cooling
Temperature range	25°C below room temp.~ 100°C	15°C below room temp. ~ 110°C
Temperature setting range[°C]	-5°C/100°C	0.1°C/110°C
Control accuracy [°C at20-45°C]	±0.5	±0.5
Uniformity [°C at20-45°C]	Max ±0.5	Max ±0.5
Max heating rate[°C/s]	5.5	5.5
Max cooling rate[°C/s]	5 (100°C-Room temp.) 0.5(Below room temp.)	2.5 (100°C-Room temp.) 0.5 (Below room temp.)
Speed range [rpm]	300-1500	-

Mixing diameter [mm]	3	-
LCD display	LCD	LCD
Program	6 stages, 9 programs	6 stages, 9 programs
Voltage	200-240V	200-240V
Frequency	50/60Hz	50/60Hz
Power	200W	180W

Table 4

## 11 Ordering Information

Cat No.	Descriptions
521212019999	Thermo control, LCD digital dry bath, USA plug, 100-120V, 50Hz/60Hz
521212129999	Thermo control, LCD digital dry bath, Cn plug, 200-240V, 50Hz/60Hz
521212229999	Thermo control, LCD digital dry bath, Euro plug, 200-240V, 50Hz/60Hz

521212329999	Thermo control, LCD digital dry bath, UK plug, 200-240V, 50Hz/60Hz
521312019999	Thermo mix, LCD digital dry bath, USA plug, 100-120V, 50Hz/60Hz
521312129999	Thermo mix, LCD digital dry bath, Cn plug, 200-240V, 50Hz/60Hz
521312229999	Thermo mix, LCD digital dry bath, Euro plug, 200-240V, 50Hz/60Hz
521312329999	Thermo mix, LCD digital dry bath, UK plug, 200-240V, 50Hz/60Hz

Table 5

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