



Step Up™ Slide Warmer



Model XH-2003

Operating Manual

Before using this product, please read this manual carefully to learn about the available features to obtain the best results of this equipment.

Warning: To prevent fire or shock hazard, do not expose this unit to rain or moisture. Unless labeled otherwise, this equipment should be used with AC 110V, 60Hz in the USA or Canada.

220V, 50Hz available as Model No. **XH-2003-220**

Caution: No user-serviceable parts inside. Refer servicing to qualified service personnel

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2.1 Safety

Before using the slide warmer, please read this instruction manual carefully. Incorrect or inappropriate use may result in equipment damage or personal injury!

The Step Up™ Slide Warmer is designed for use in the fields of cytology, histology, and biology. It is also an ideal choice for laboratories, schools (recommended for grades 11 and up) and scientific research organizations. This Premiere Step Up™ Slide Warmer is a “tiered” laboratory Slide Warmer that is easy to assemble and use. The Step Up™ has 4 levels and is able to warm up to 40 slides at one time. The new design of the Step Up™ surface allows for easier and safer ability to pick up slides than ever before because one end of the slide extends off the heated “steps”. The Slide Warmer also has an electrophoretic surface coating. The Step Up™ Slide Warmer is able to warm slides by heating the tubes and is able to spread the heat throughout the entire surface.

When the Step Up™ Slide Warmer is heating, please keep an area of about 12 inches around the warmer clear while operating it and ensure nothing is blocking the vents. Do not touch hot surface to avoid injury or burns!

To avoid injury to personnel and or separated samples inside the unit, do not use the following materials in the centrifuge:

- Flammable and explosive materials
- Strong chemical materials
- Toxic or radioactive materials

3.1 Contents

Number	Name	Qty	Note
1	Step Up™Slide Warmer	1 set	
2	AC Power Cord	1 pc	
3	4 Steps Heating Plate (installed)	1 pc	
4	Operating manual	1 pc	



Upon receipt, please examine the package, if there's anything wrong, please kindly contact your dealer promptly.

3.2 Specifications

Function/ Parameter	Technical Data
Environment of use	<ul style="list-style-type: none"> • Clean, dry and ventilated • Stable work surface • Relative humidity: ≤80%
Applicable Voltage	<ul style="list-style-type: none"> • AC120V60Hz or AC220V50Hz
Temperature Range	<ul style="list-style-type: none"> • Room temperature to 70° C; ±2° C
Setting Time Range	<ul style="list-style-type: none"> • 1-240min
Maximum capacity	<ul style="list-style-type: none"> • 40 Slides
Dimensions (machine)	<ul style="list-style-type: none"> • 14 x 14 x 4in. (35 x 35 x 10cm.)
Net Weight	<ul style="list-style-type: none"> • 18 lbs.
Dimensions (package)	<ul style="list-style-type: none"> • 17 x 17 x 7in. (43 x 43 x 17cm.)
Gross Weight	<ul style="list-style-type: none"> • 22 lbs.

4.1 Notes of operation

- Always use with care
- Avoid moving or touching during operation
- Use only with accessories provided or parts designed specifically for use with this model.
- Do not wear loose clothing or jewelry while using the Slide Warmer.
- Long hair should be pulled back and secured.
- Make sure slide warmer is placed on flat dry surface and do not store in direct sunlight
- Do not touch the surface without proper protection when unit is on.
- Never use any item on Slide Warmer that can scratch or damage the surface
- Use only electrical plug supplied with product
- Do not leave Slide Warmer un-attended while operating

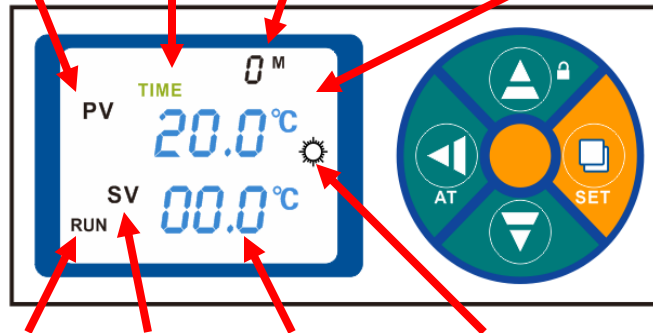
5.1 Control Panel and Operations

Operation Method of new XH-2003 (LCD display)

After Startup ▼

Display Panel

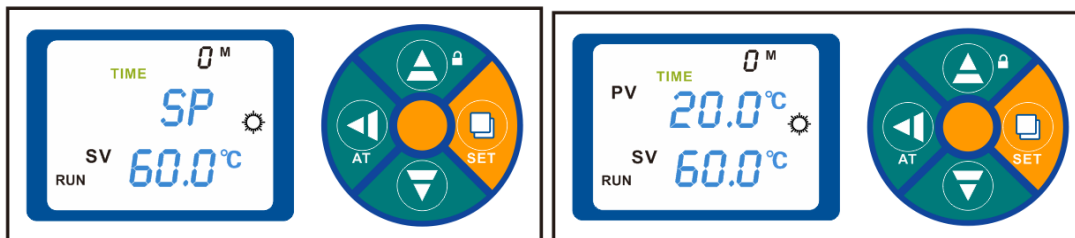
Actual Temp. Timing Timing Value Actual Temp.Value



Running Set Temp. Set Temp. Value Heating Indication

Temperature Setting

Press the **SET** key to display SP, the following value will flash, then press the ←, ▲, ▼, keys to modify the value to the desired constant temperature value, for example: 60 °C

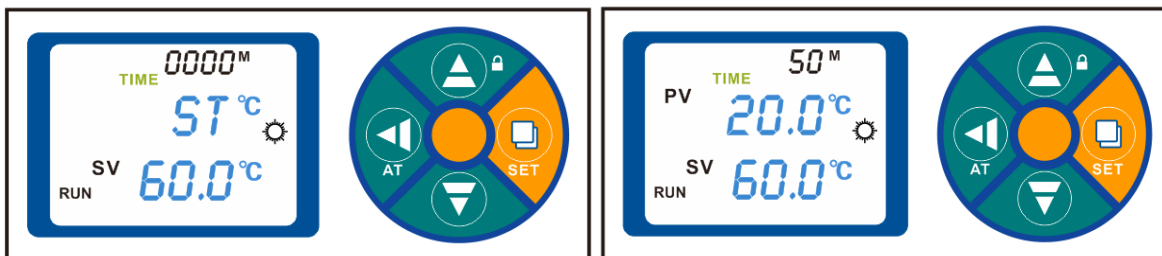


After modifying the temperature value, press the **SET** key again, the system will enter the time setting;

Time setting:

After the temperature is set, press the **SET** key, the time value will flash ON/OFF showing **ST** to enter the time setting., and then press the ←, ▲, ▼, keys to modify the value to the desired timing value, for example: 50min

Note: The factory default timing is 0min means that the timing function is canceled, and the machine keeps working:

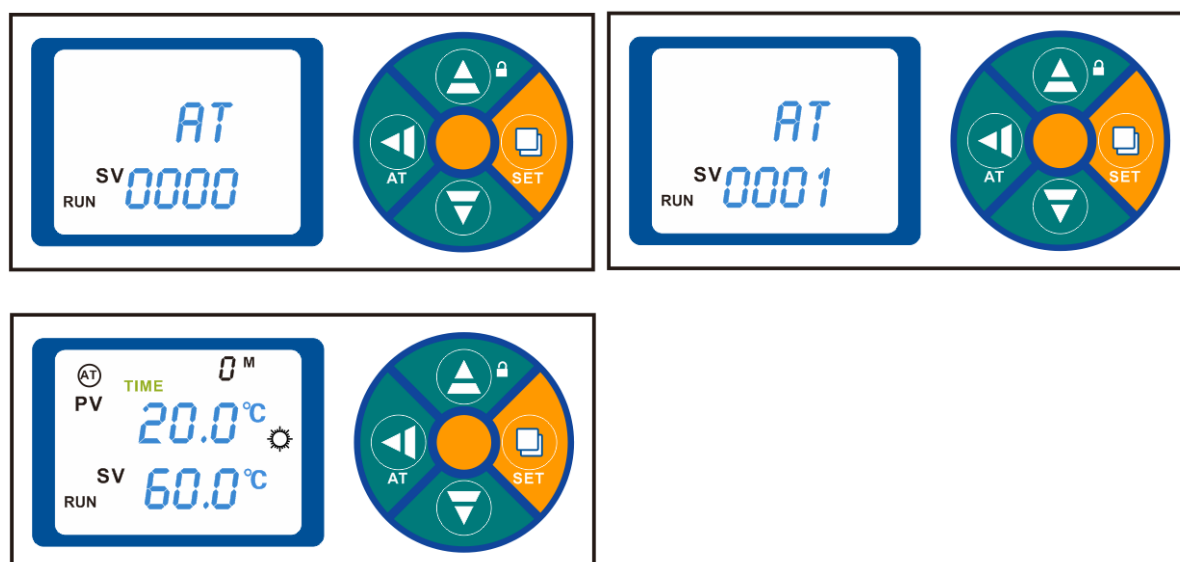


After the timing is completed, press the SET key again to exit the setting state and enter the working mode;

Self-tuning function:

When the system temperature control fluctuates greatly, or the temperature overshoots and the heating is slow, the system can automatically learn and adjust the working parameters according to the working environment. The methods are as follows:

First let the machine cool down completely, set the temperature value to 50~60°C, then press and hold the **AT** key for more than 5 seconds, the system will display AT, and the lower row will display 0000, then press the **▲** key to display 0001, and then press the **SET** key to exit the setting. Enter the self-tuning state, the AT word line is displayed on the screen and flashes, and the system automatically learns and adjusts the parameters according to the current environmental state. Please do not perform any operations or turn off the power during the learning process. After the learning is completed, the system will automatically exit and save data.



Upon receipt of your new centrifuge

we recommend you record the following information for future reference:

Date purchased/received: _____

Dealer: _____

Dealer's phone number: _____

Warranty

The manufacturer warrants this instrument to be free from defects in materials and workmanship under normal use for a period of one year from the date of purchase (including electrical components). This warranty does not cover damage resulting from misuse, abuse, unauthorized repairs or modifications, or damage incurred during transit.

For any questions regarding this product or the warranty, please contact the dealer from whom the instrument was purchased. For warranty service, email us at contact@cnascientific.com.

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