Cole-Parmer®

Instruction Manual
250 Series



coleparmer.com

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1. Introduction

Thank you for purchasing this Cole-Parmer product. To get the best performance from this equipment, and for safety purposes, please read these instructions carefully before use. Before discarding the packaging check that all parts are present and correct.

Item Number	Model Number	Description	Voltage
50302-02	SHP-250D-R-120	5 inch Digital Hotplate Stirrer	110V
50302-03	SHP-250D-R	5 inch Digital Hotplate Stirrer	220V
50302-05	ST-250D-R-120	5 inch Magnetic Stirrer (Stirring Only)	110V
50302-11	ST-250D-R	5 inch Magnetic Stirrer (Stirring Only)	220V
50302-08	HP-250D-R-120	5 inch Hotplate (Heating Only)	110V
50302-09	HP-250D-R	5 inch Hotplate (Heating Only)	220V
50302-00	SHP-250D-120	7 inch Hotplate Stirrer	110V
50302-01	SHP-250D	7 inch Hotplate Stirrer	220V
50302-04	ST-250D-120	7 inch Magnetic Stirrer (Stirring Only)	110V
50302-12	ST-250D	7 inch Magnetic Stirrer (Stirring Only)	220V
50302-06	HP-250D-120	7 inch Hotplate (Heating Only)	110V
50302-07	HP-250D	7 inch Hotplate (Heating Only)	220V

2. Safety Instructions

This equipment is designed to operate under the following conditions:

- For indoor use only
- Use in a well ventilated area
- Operate the device within the Permissible ambient temperature: 5-40 °C
- Altitude to 2000m
- Relative humidity not exceeding 80%
- Mains supply fluctuations not exceeding 10% of nominal
- Pollution degree 2 IEC664
- Use with a minimum distance all round of 200mm from walls or other items

- Do not use the instrument to heat inflammable liquids.
- Never lift or carry the instrument until it has been switched off and allowed to cool for at least 30 minutes. The hot warning light will give guidance.
- The unit should be carried using both hands with the fingers under the side edges.
- Never more or carry the unit with container on the top plate or while still connected to the mains supply.
- There is a danger of liquid spillage if containers are over-filled an stirred at high speed. Always build stirrer speed slowly and never stir more rapidly than necessary.
- Never use a retort rod longer than 600mm.
- When a retort rod is installed with apparatus attached, or when swiveling support rods, take care that there is sufficient weight on the plate to prevent the whole unit tipping over.

- Ensure equipment is used on a clean, dry, non-combustible, solid work surface with at least 300mm suitable clearance all around from other equipment.
- Do not position the product so that it is difficult to disconnect from the mains supply.
- Do not touch the heating element or any glass vessel whilst in use.
- Do not lean or stretch over equipment, glassware and fixings when in use.
- Do not immerse unit in water or fluids.
- Do not use in hazardous atmospheres or with hazardous materials for which the equipment is not designed.
- In the event there is an interruption in the mains supply, the equipment will resume operation once power is restored.

Electrical Requirements



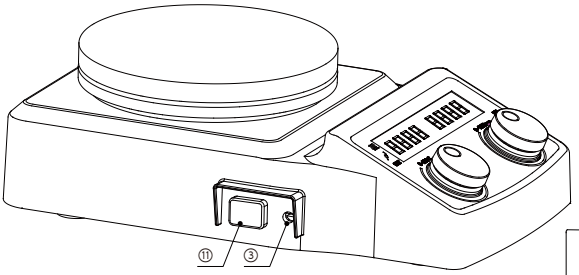
THIS EQUIPMENT MUST BE EARTHED

Power requirements:

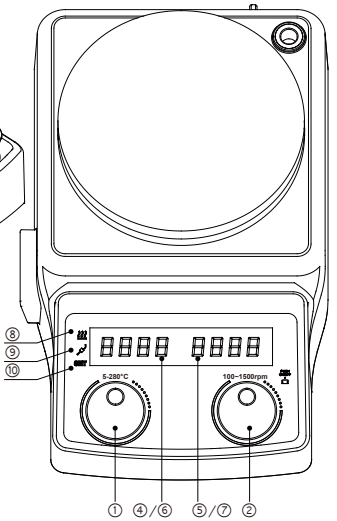
Model	Voltage
SHP-250D-R-120	110V
SHP-250D-R	220V
ST-250D-R-120	110V
ST-250D-R	220V
HP-250D-R-120	110V
HP-250D-R	220V
SHP-250D-120	110V
SHP-250D	220V
ST-250D-120	110V
ST-250D	220V
HP-250D-120	110V
HP-250D	220V

3.Product Structure

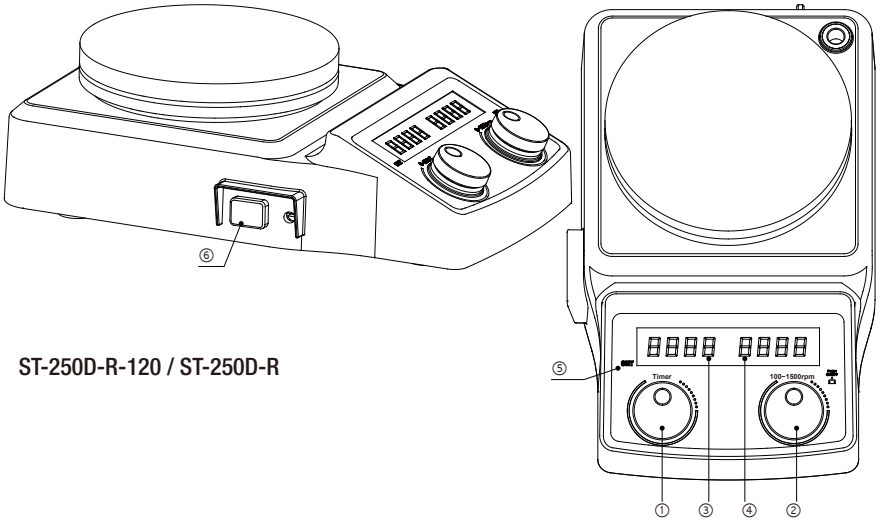
5-inch: SHP-250D-R-120 / SHP-250D-R / ST-250D-R-120 / ST-250D-R / HP-250D-R-120 / HP-250D-R



SHP-250D-R-120 / SHP-250D-R

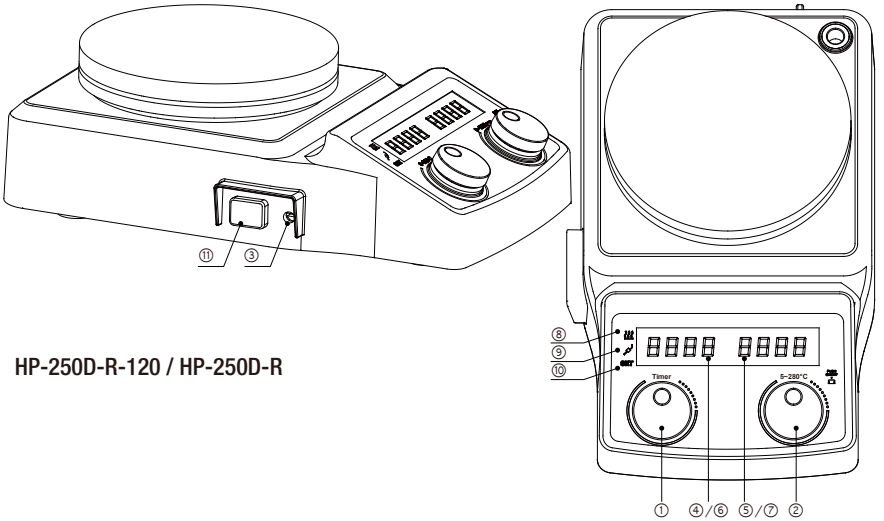


① Knob for temperature setting	Set the temperature by rotating the knob Start/stop heating by pressing the knob
② Knob for speed setting	Set the speed by rotating the knob Start/stop stirring by pressing the knob
③ Knob for safety temperature setting	Set the safety temperature by rotating the knob. When the heating temperature is higher than the safety temperature, the machine stops heating.
④ Temperature display	When heating, it displays the target temperature and the actual temperature alternately. It displays “OFF” when heating stops.
⑤ Speed display	When stirring, it displays the target speed and the actual speed alternately. Display shows "OFF" when stirrer knob is pushed to off or completion of runtime.
⑥⑦ Safety temperature display	When setting the safety temperature, the first 4 digits display “SAFE” and the last 4 digits display the temperature value.
⑧ Heating indicator	It’s lit when heating.
⑨ External temperature sensor indicator	When the external temperature sensor is connected, the indicator is lit and the LED displays the temperature of the external temperature sensor. When it’s disconnected, the temperature of the internal temperature sensor is displayed.
⑩ Setting indicator	The light will flash when setting the temperature or speed. During heating， light will flash when display the set temperature.
⑪ Power switch	Switch on/off



ST-250D-R-120 / ST-250D-R

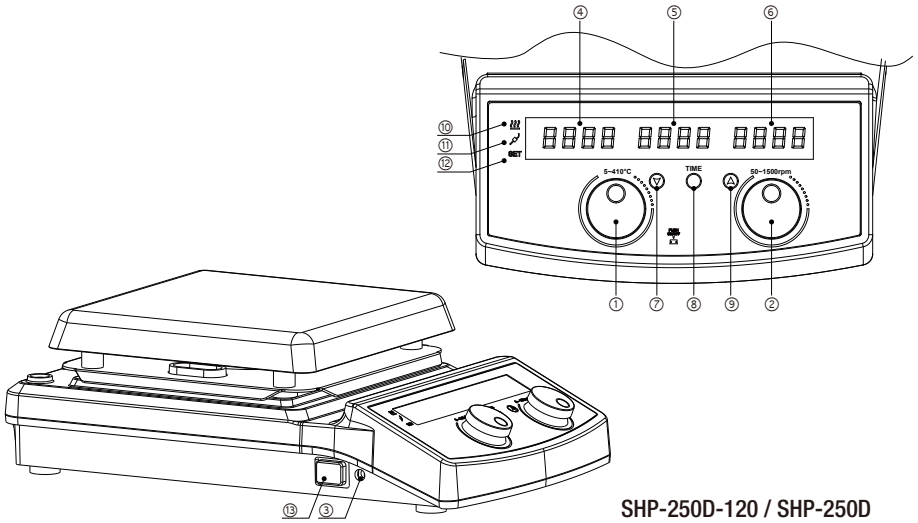
① Timer control knob	Set the timer by rotating the knob, start/stop the timer by pressing the knob.
② Knob for speed setting	Set the speed by rotating the knob Start/stop stirring by pressing the knob
③ Timer display	The timer display in countdown mode. It displays OFF once the countdown completes or the stop button is pressed to off.
④ Speed display	When stirring, it displays the target speed and the actual speed alternately. It displays “OFF” when the stirring stops.
⑤ Setting indicator	The light will flash when setting the speed.
⑥ Power switch	Switch on/off



HP-250D-R-120 / HP-250D-R

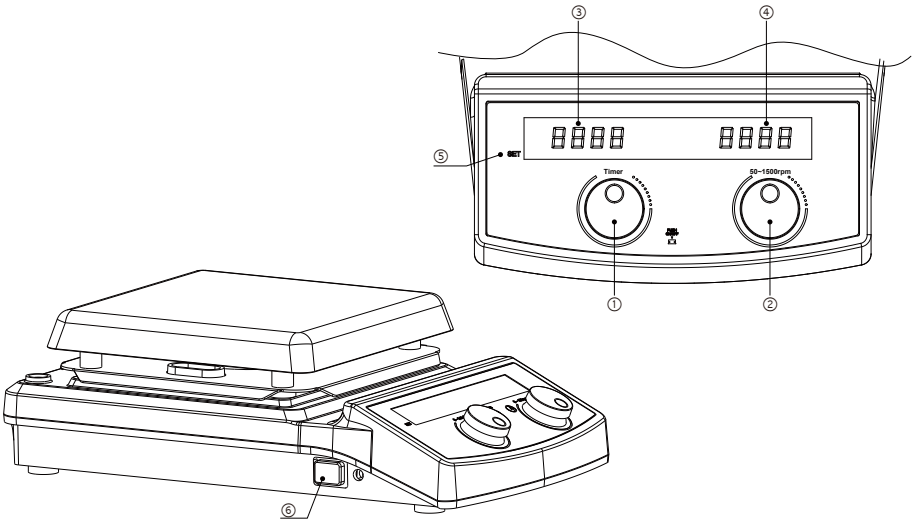
① Timer control knob	Set the timer by rotating the knob, start/stop the timer by pressing the knob.
② Knob for temperature setting	Set the temperature by rotating the knob, start/stop heating by pressing the knob
③ Knob for safety temperature setting	Set the safety temperature by rotating the knob. When the heating temperature is higher than the safety temperature, the machine stops heating.
④ Timer display	The timer display in countdown mode. It displays OFF once the countdown completes or the timer button is pressed to off.
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⑩ Setting indicator	The light will flash when setting the temperature . During heating, light will flash when display the set temperature.
⑪ Power switch	Switch on/off

7-inch: SHP-250D-120 / SHP-250D / ST-250D-120 / ST-250D / HP-250D-120 / HP-250D



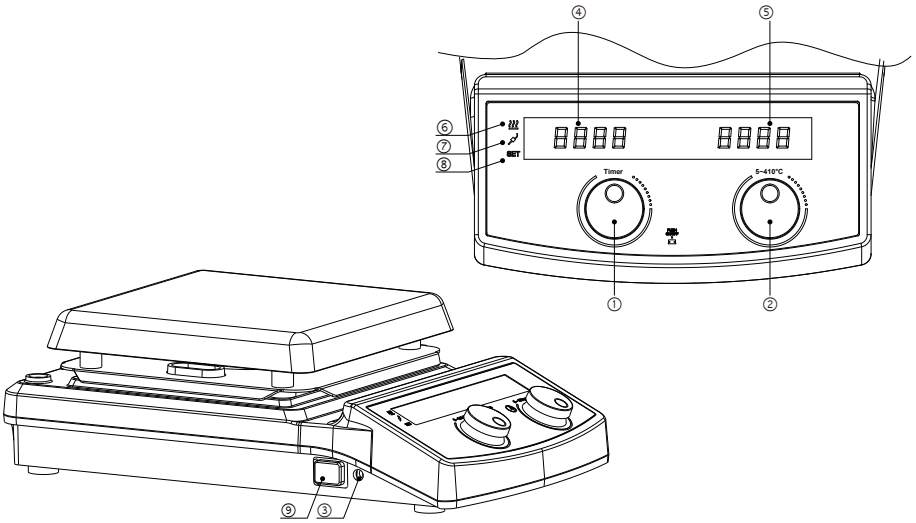
SHP-250D-120 / SHP-250D

① Knob for temperature setting	Set the temperature by rotating the knob Start/stop heating by pressing the knob
② Knob for speed setting	Set the speed by rotating the knob Start/stop stirring by pressing the knob
③ Knob for safety temperature setting	Set the safety temperature by rotating the knob. When the heating temperature is higher than the safety temperature, the machine stops heating.
④ Temperature display	When heating, it displays the target temperature and the actual temperature alternately.Display shows "OFF" when temperature knob is pushed to off or completion of runtime.
⑤ Timer display	It displays the set time when working and “OFF” is displayed upon both timer shutdown and completion of runtime.
⑥ Speed display	When stirring, it displays the target speed and the actual speed alternately.Display shows "OFF" when stirrer knob is pushed to off or completion of runtime.
⑦ Key to decrease the timing	Decrease the timing
⑧ Timer	Turn on/off timer
⑨ Key to increase the timing	Increase the timing
⑩ Heating indicator	It’s lit when heating.
⑪ External temperature sensor indicator	When the external temperature sensor is connected, the indicator is lit and the LED displays the temperature of the external temperature sensor. When it’s disconnected, the temperature of the internal temperature sensor is displayed.
⑫ Setting indicator	The light will flash when setting the temperature or speed. During heating， light will flash when display the set temperature
⑬ Power switch	Switch on/off



ST-250D-120 / ST-250D

① Timer control knob	Set the timer by rotating the knob, start/stop the timer by pressing the knob.
② Knob for speed setting	Set the speed by rotating the knob Start/stop stirring by pressing the knob
③ Timer display	It displays the set time when working and “OFF” is displayed upon both timer shutdown and completion of runtime.
④ Speed display	When stirring, it displays the target speed and the actual speed alternately.Display shows "OFF" when stirrer knob is pushed to off or completion of runtime
⑤ Setting indicator	The light will flash when setting the speed.
⑥ Power switch	Switch on/off



HP-250D-120 / HP-250D

① Timer control knob	Set the timer by rotating the knob, start/stop the timer by pressing the knob.
② Knob for temperature setting	Set the temperature by rotating the knob, start/stop heating by pressing the knob.
③ Knob for safety temperature setting	Set the safety temperature by rotating the knob. When the heating temperature is higher than the safety temperature, the machine stops heating.
④ Timer display	When heating, it displays the target temperature and the actual temperature alternately.It displays “OFF” when heating stops.
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⑧ Setting indicator	The light will flash when setting the temperature. During heating，light will flash when display the set temperature.
⑨ Power switch	Switch on/off

4. Specifications

Model	SHP-250D -R-120	SHP-250D -R	ST-250D -R	ST-250D -R-120	HP-250D -R-120	HP-250D -R
Name	5-inch Digital Hotplate Stirrer - 110V	5-inch Digital Hotplate Stirre - 220V	5-inch Magnetic Stirrer (Stirring Only) 220V	5-inch Magnetic Stirrer (Stirring Only) 110V	5-inch Hotplate (Heating Only) 110V	5-inch Hotplate (Heating Only) 220V
Type	Heating / Stirring	Heating / Stirring	Stirring	Stirring	Heating	Heating
Stirring position	1					
Plate material	Stainless steel with ceramic coated					
Plate dimensions (mm)	Ø 137					
Motor type	DC motor	DC motor	DC motor	DC motor	/	/
Max. Stirring quantity (H_2O, L)	5	5	5	5	/	/
Max. Stirring bar [L x Ø, mm]	55*10	55*10	55*10	55*10	/	/
Motor rating output (W)	1.4	1.4	1.4	1.4	/	/
Speed range (rpm)	100-1500	100-1500	100-1500	100-1500	/	/
Speed display	LED	LED	LED	LED	/	/
Heating output (W)	600	600	/	/	600	600
Heating temperature range	RT to 280°C	RT to 280°C	/	/	RT to 280°C	RT to 280°C
Temperature display	LED	LED	/	/	LED	LED
Temperature display resolution	0.1	0.1	/	/	0.1	0.1
Safety temperature (°C)	50-320	50-320	/	/	50-320	50-320
Temperature control accuracy with external temperature sensor	±1	±1	/	/	±1	±1
Hot surface warning	50°C	50°C	/	/	50°C	50°C
Permissible ambient temperature (°C)	5-40					
Permissible relative humidity	80%					
Dimensions [W x D x H, mm]	268 x 160 x 85					
Weight [kg]	1.8					

Model	SHP-250D-120	SHP-250D	ST-250D	ST-250D-120	HP-250D-120	HP-250D
Name	7-inch Hotplate Stirrer -110V	7-inch Hotplate Stirrer -220V	7-inch Magnetic Stirrer (Stirring Only) 220V	7-inch Magnetic Stirrer (Stirring Only) 110V	7-inch Hotplate (Heating Only) 110V	7-inch Hotplate (Heating Only) 220V
Type	Heating / Stirring	Heating / Stirring	Stirring	Stirring	Heating	Heating
Stirring position	1					
Set-up plate dimensions (mm)	185 x 185					
Set-up plate material	Stainless steel with ceramic coated					
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	/	/
Max. Stirring quantity (H_2O, L)	20	20	20	20	/	/
Max. Stirring bar [L x Ø, mm]	80 x Φ9.5	80 x Φ9.5	80 x Φ9.5	80 x Φ9.5	/	/
Motor rating output (W)	15	15	15	15	/	/
Speed range (rpm)	50-1500	50-1500	50-1500	50-1500	/	/
Speed display	LED	LED	LED	LED	LED	LED
Heating output (W)	1000	1000	/	/	1000	1000
Heating temperature range	RT to 410°C	RT to 410°C	/	/	RT to 410°C	RT to 410°C
Temperature display	LED	LED	/	/	LED	LED
Temperature display resolution	0.1	0.1	/	/	0.1	0.1
Safety temperature (°C)	50-450	50-450	/	/	50-450	50-450
External temperature sensor	PT1000	PT1000	/	/	PT1000	PT1000
Temperature control accuracy with external temperature sensor	±1(<100°C), 1%(≥100°C)	±1(<100°C), 1%(≥100°C)	/	/	±1(<100°C), 1%(≥100°C)	±1(<100°C), 1%(≥100°C)
Hot surface warning	50°C	50°C	/	/	50°C	50°C
Permissible ambient temperature (°C)	5-40					
Permissible relative humidity	80%					
Dimensions [W x D x H, mm]	220 x 350 x 100					

5.Before Use

Carefully unpack the box and remove all packing materials.

Inspect all contents for any damage. While rare, damage may occur during shipping. Before discarding the packaging, check the Box contents (see below) for your product and ensure all items are present.

- Make sure the required voltage corresponds to the mains voltage.
- Ensure the socket must be properly grounded.
- Switch on and start initializing.
- Add sample into the container with an appropriate stirring bar.
- Place the container on the heating plate.
- Set the target speed and start stirring.
- Observe the stirring bar and the LED display.
- Set the temperature and start heating.
- Observe the actual temperature on the LED display.
- Connect the external temperature sensor.

If the above operations are normal, the device is good to run. If these operations are abnormal, the device may probably be damaged during transit, please contact manufacturer/supplier for technical support.



DO NOT move the container when the device is working.

6.Box Contents

5-inch Hotplates, Stirrers & Combined

Model / Item	SHP-250D -R-120	SHP-250D -R	ST-250D-R -120	ST-250D -R	HP-250D -R-120	HP-250D -R
Main Unit (QTY)	1	1	1	1	1	1
Power cord (QTY)	1	1	1	1	1	1
Screw driver (QTY)	1	1	1	1	1	1
User manual (QTY)	1	1	1	1	1	1
External temperature sensor PT1000 (QTY)	0	0	0	0	0	0
Stirring bar (QTY)	1	1	1	1	1	1

7-inch Hotplates, Stirrers & Combined						
Model / Item	SHP-250D -120	SHP-250D	ST-250D -120	ST-250D	HP-250D -120	HP-250D
Main Unit (QTY)	1	1	1	1	1	1
Power cord (QTY)	1	1	1	1	1	1
Screw driver (QTY)	1	1	1	1	1	1
User manual (QTY)	1	1	1	1	1	1
External temperature sensor PT1000 (QTY)	1	1	0	0	1	1
Stirring bar (QTY)	1	1	1	1	1	1

7.Inspection

Unpack the device carefully and check for any damages which may have arisen during transit. Please contact the manufacturer/supplier for technical support.

Note:

If there is any apparent damage to the device, please do not connect the power line.

8.Operation

Heating

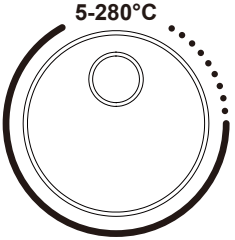
5-inch: SHP-250D-R-120, SHP-250D-R, HP-250D-R-120, HP-250D-R

7-inch: SHP-250D-120, SHP-250D, HP-250D-120, HP-250D

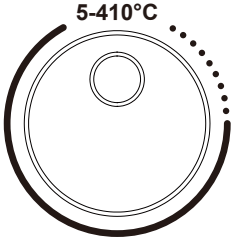
This machine features digital temperature control with dual safety circuits. An internal digital control maintains a constant hotplate temperature, while a separate adjustable safety circuit provides an additional layer of monitoring. Two internal PT1000 sensors are integrated into the hotplate for temperature control.

An external PT1000 sensor can be connected to monitor the sample's temperature directly.

- The target temperature is set using the temperature adjustment knob. See picture below.
- During heating, the LED display alternates between the target and actual temperatures.
- Pressing the temperature control knob to start/stop heating.
- Upon startup, the machine recalls the last set temperature.
- Note that temperature variations may exist between the hotplate's center and edge, as well as between the sample and its container.
- For precise sample temperature monitoring, the external PT1000 sensor is recommended.



Temperature adjustment knob for 5-inch



Temperature adjustment knob for 7-inch

PS: The PT1000 temperature sensor is an optional accessory for SHP-250D-R-120, SHP-250D-R, HP-250D-R-120, HP-250D-R.

Using an external PT1000 temperature sensor

When the PT1000 external temperature sensor connected, the sensor indicator will illuminate, and the machine will operate in PT1000 mode. In this mode, the display shows the set temperature for the external sensor and the actual sample temperature. While the safety circuit still monitors the hotplate, using the external sensor provides more precise temperature control directly within your sample.

To use it, insert the external PT1000 sensor into your sample. If a fault occurs, heating will automatically stop. Shoud this happen, please do the following:

1.Turn off the power.

2.Confirm the external temperature sensor is properly inserted into the sample.

3.Turn the power back on and set your desired temperature to resume heating.

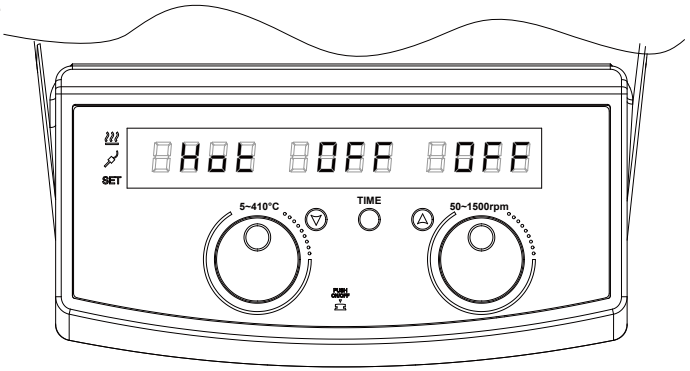
4.If the issue persists, please contact the manufacturer or supplier for technical assistance.

Important Note:

"Hot" Flashing Indicator: This instrument includes a residual heat warning to prevent burns. The HOT warning flashes when the hotplate temperature is above 50°C in two scenarios described below.

1. Once heating stops, if the hotplate temperature is still above 50°C, the display will flash "Hot," signaling a potential burn hazard.
2. If the user turn off the device, it will still display “Hot” to warn the user of the residual heat. The instrument will automatically power down when the hotplate cools to below 50°C.

To immediately shut off the device: unplug it from the power source. Note that the "Hot" warning will not be active if there is a power failure or if the instrument is unplugged. When the "Hot" warning is flashing, the device is on standby mode, and the control panel is disabled.



Stirring

5-inch: SHP-250D-R-120, SHP-250D-R, ST-250D-R-120, ST-250D-R

7-inch: SHP-250D-120, SHP-250D, ST-250D-120, ST-250D

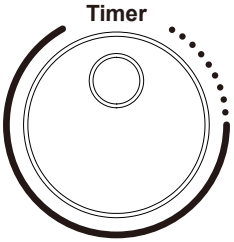
Stirring bars should be placed into the liquid to be stirred.

Switch the unit on using the mains on/off switch. When powered on, it displays the set speed of last operation. The speed is set by rotating the knob in the range of 100-1500rpm, turning the knob to a higher intensity increases the stirrer speed. Stirring starts by pressing the speed setting knob.

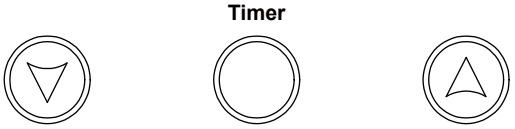
Timer

7-inch: SHP-250D-120, SHP-250D, ST-250D-120, ST-250D, HP-250D-120, HP-250D
5-inch: ST-250D-R-120, ST-250D-R, HP-250D-R-120, HP-250D-R

For ST-250D-120, ST-250D, HP-250D-120, HP-250D, ST-250D-R-120, ST-250D-R, HP-250D-R-120, HP-250D-R, the timer adjustment is done by the timer rotary knob. When the device is switched on, the timer screen displays “Off”. For SHP-250D-120, SHP-250D, the timer is set by the up/down/Timer button. When the device is switched on, it displays “Off” in the timer screen.



Timer control knob for ST-250D-120, ST-250D, HP-250D-120, HP-250D, ST-250D-R-120, ST-250D-R, HP-250D-R-120, HP-250D-R



Timer control buttons for SHP-250D-120, SHP-250D

Editing the timer/Start the timer with the Timer control knob

The timer is set by rotating the timer knob in the range of 1min-99:59min, then press the knob to confirm edits and start the count down or the edit is saved 10 seconds later without any further edit.

Editing the Timer/Start the timer: with the Timer control buttons

Edit the timer when the Timer is Running:

- Lightly press the Timer button to start the timer.
- To edit the timer while it's running, long-press the Timer button.

Edit the timer when the Timer is Off:

- Long-press the Timer button to enter the timer edit mode.
- Lightly press the Timer button to switch between adjusting the hour and minute values.
- Press the Up or Down button to incrementally change the selected value.
- Long-press the Up or Down button for rapid value adjustment.
- To save the timer setting and exit the edit mode:
  - Long-press the Timer button to save edits. The timer screen will then display "Off".
  - Alternatively, the edited settings will be automatically saved if no further adjustments are made for 10 seconds. The timer screen will then display "Off".

Start the timer:

- Once the device is powered on or the timer has been adjusted, a single press of the "Timer" button will start the timing process.

9. Troubleshooting

9.1 Common faults

1.The device can't work when powered on
- Check if the power line is connected properly
- Check if the fuse is broken or loose

2. Fault in power on self-test
- Power off the device and then restart

3. Actual speed can't reach the set value
- Media in high viscosity may probably cause abnormal speed reduction of the motor

4. The device can't be powered off when switched off
- Check if the residual heat warning function is still on and the hotplate temperature is above 50°C (LED still works and "Hot" flashes)

9.2 Error Codes and Remedy

Error code	Error description Solutions	Solutions
Er1	Short circuit in the external temperature sensor PT1000	Replace PT1000 and re-start the device
Er2	Open circuit in the internal temperature sensor PT1000	Please contact the supplier
Er3	Short circuit in the internal temperature sensor PT1000	Please contact the supplier
Er4	Excessive temperature of the device	Power off, and then re-start the device after cooling down
Er5	Motor failure	Please contact the supplier
Er6	Heating module failure	Please contact the supplier

10. Accessories

Item	PN
Support clamp	SC250
PT1000 temperature sensor	TS250

11. Maintenance, Servicing & Repair

Proper maintenance can make the device work well and extend its life.
- Do not allow moisture to get into the device when cleaning
- Disconnect the mains plug when cleaning
- Wear protective gloves when cleaning
- Only use the recommended cleansing agents

12. Warranty

We guarantee that our scientific instruments adhere to the most rigorous engineering and quality standards. This instrument is warranted to be free from defects in materials and workmanship under normal use and service, for a period of 36 months from the date of dispatch. The warranty is extended only to the original purchaser. For claims under the warranty, please contact your local seller.

Scope of Warranty

The following conditions are not covered under the warranty.

- Faults or damage caused by negligence, improper installation, improper operation, or failure to use and maintain the machine in accordance with the instructions in this operating manual.
- Issues caused by unauthorized disassembly or modification.

13. Associated Standards and Regulations

This device has been constructed to conform to standards as outlined below.

Construction in accordance with the following safety standards:
EN 61010-1, EN IEC 61010-2

Construction in accordance with the following EMC standards:
EN IEC 61326-1, EN IEC 61326-2-1

This product meets the applicable CE Directives and UKCA Legislation for radio frequency interference and may be expected not to interfere with, or be affected by, other equipment with similar qualifications. We cannot be sure that other equipment used in its vicinity will meet these standards and so we cannot guarantee that interference will not occur in practise. Where there is a possibility that injury, damage or loss might occur if equipment malfunctions due to radio frequency interference, or for general advise before use, contact the manufacturer.

Declaration of Conformity

Catalog Number:	Description:
50302-02	5 inch Digital Hotplate Stirrer
50302-03	5 inch Digital Hotplate Stirrer
50302-05	5 inch Magnetic Stirrer (Stirring Only)
50302-11	5 inch Magnetic Stirrer (Stirring Only)
50302-08	5 inch Hotplate (Heating Only)
50302-09	5 inch Hotplate (Heating Only)
50302-00	7 inch Hotplate Stirrer
50302-01	7 inch Hotplate Stirrer
50302-04	7 inch Magnetic Stirrer (Stirring Only)
50302-12	7 inch Magnetic Stirrer (Stirring Only)
50302-06	7 inch Hotplate (Heating Only)
50302-07	7 inch Hotplate (Heating Only)

This product series is CE marked, confirming compliance with the following standards:

EN 61010-1:2010+A1:2019

EN IEC 61010-2-010:2020

EN IEC 61326-1:2021

EN IEC 61326-2-1:2021

This product series is UKCA marked, confirming compliance with the following standards:

BS EN 61010-1:2010+A1:2019

BS EN IEC 61010-2-010:2020

BS EN IEC 61326-1:2021

BS EN IEC 61326-2-1:2021

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Ordering Information

Part Number	Model Number
50302-02	SHP-250D-R-120
50302-03	SHP-250D-R
50302-05	ST-250D-R-120
50302-11	ST-250D-R
50302-08	HP-250D-R-120
50302-09	HP-250D-R
50302-00	SHP-250D-120
50302-01	SHP-250D
50302-04	ST-250D-120
50302-12	ST-250D
50302-06	HP-250D-120
50302-07	HP-250D

Warranty Registration

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