



Operation Manual

Heating Block

Model : CHB-350S,T
Manual No.:J10115L002 Version : 2.1



WARNING

Please read this user manual carefully before using the product. Users should operate the product according to the operating instructions contained in this user manual. Users should be aware of cautions and warnings for your safety. Failure to follow these guidelines may result in serious injury or damage to your property.

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1.0 Safety

1.1 Operation Manual

This manual contains important safety and operation information. You must carefully read, understand, and follow all the instructions in this manual prior to operating this instrument. Keep this manual in a safe place nearby for reference and make it easily available to all users.

1.2 WARNING/CAUTION/NOTICE Alerts

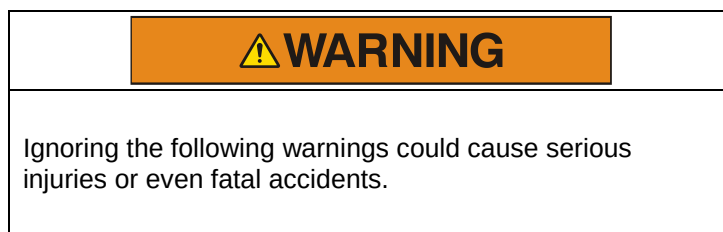
- (1) This manual highlights Danger/WARNING/CAUTION/NOTICE alerts to prevent injury or property damage and also to achieve optimum performance of your instrument.
- (2) These alerts are classified into four types in this manual depending on the importance and the risk levels as described below:

Symbols	Meaning
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Ignoring this warning could cause serious injury or even death.
	Ignoring this caution could cause injury or property damage.
	Ignoring this notice could cause operational problems.

1.3 Exemption for responsibility

- (1) The claim which is out of the quality guaranteed by the manufacturer is out of Manufacturer's responsibility.
- (2) The damage which is from unexpected fault or damage of user by Acts of God is out of Manufacturer's responsibility

1.4 Warning statement



Case of explosive and flammable chemicals, you must use with sufficient safety countermeasure.
In Accordance with experiment, you should install safety device and should follow suitable regulations in your laboratory.

Do not install the product in the place that the gas could leak out. Does not use in the place that has the industrial oil smoke and the metallic dust. It causes fire or electric shock.

Do not use the machine near to places where explosion can be happened due to organic evaporating gases.

- Explosive materials: Acid, Esther, Nitro compound
- Inflammable materials: salt peroxides, inorganic peroxide, salt acids.

Do not use the machine at places where moisture is high and flooding can be happened.

Check electrical requirements described in this operation manual or on the ID plate of this instrument before use.

Connect this instrument to a dedicated power outlet nearby.

Make sure to connect this instrument only to properly grounded power outlets to protect you and your instrument.

Do not ground to gas pipes or water pipes.

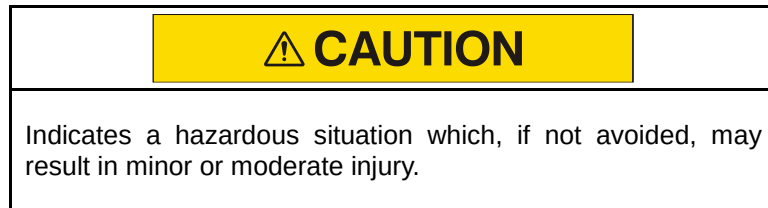
Please unplug, when there is strange sound, smell and smoke from the product.

Please stop operating and request the service.

Do not assemble, repair, modify on your own.

The product may not work well and electric shock in the efficiency of the product. Also you cannot get after service by warranty regulation

1.5 Caution statement



Do not touch block immediately, even power off. Because the block might be have Residual heat.
It may be cause burns from high temperature of block, seemingly invisible.

Do not forget plug off, after product main switch.
It is safety regulations for next user.

Do not put heavy things on the power line. Do not put the machine on the line.
It may take off the wire coating and causes the electric shock or fire.

Do not touch it with wet hands and put the main plug correctly.
It may cause the electric shock or injuries.

Do not pour or insert any flammable materials into the product.

Do not pour water or put liquid on the top of the product when cleaning.
Please intercept the main power immediately and request the service when water may be in the product.

Do not let the product take any strong shock or vibration.
It causes abnormal operation or trouble. It may deteriorate the ability of the product and not obtain correct results.

Do not install the instrument near machinery generating high frequency noise.
Please avoid installed from high frequency- welding machine, sewing machine, and mass SCR controller

Do not sprinkle insecticide or flammable spray on the product. Use smooth cloths.
Cleaning with solvent can cause fire and deformity.

Please power off while product cleaning.
It may cause the electric shock or fire.

2.0 Functional Description

2.1 Introduction

CHB-350S,T is ideal for simultaneous sample heating of multiple vials or test tubes with uniform and precise temperature control. Also the units are designed with the convenience and safety for users.

2.2 Feature

- **Excellent Performance**

- (1) Precision accuracy is ensured by its PID controller.
- (2) Its built-in temperature limit setting feature (with max. 0.2°C overshooting) allows you to perform highly temperature-sensitive reactions such as isothermal amplifications.
- (3) Optimal heat transfer is achieved by the tight coupling design of the main body and the corrosion-resistant anodized aluminum blocks.

- **Safety**

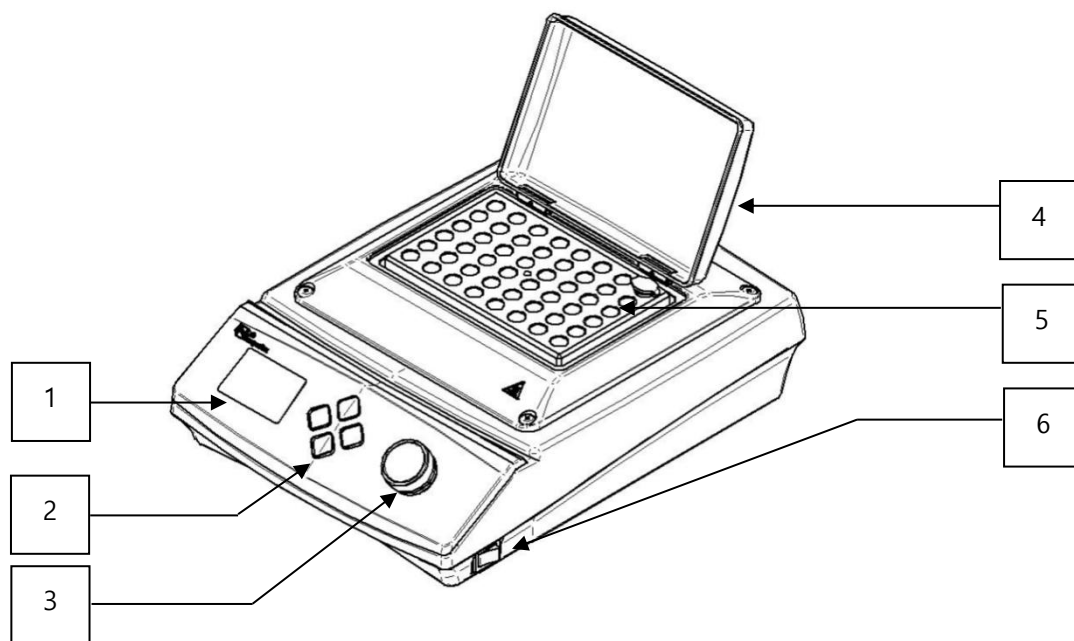
- (1) Automatic power cutoff and warning message
 - Showing the error message if the temperature of the main body exceeds 140°C
 - Automatic power cutoff if the temperature of the main body exceeds 150°C
- (2) If the internal circuit is overheated, the product can be automatic cutoff.
- (3) During the heat condition, the VFD panel can be shown the user the product state by red lamp.

- **Ease of use**

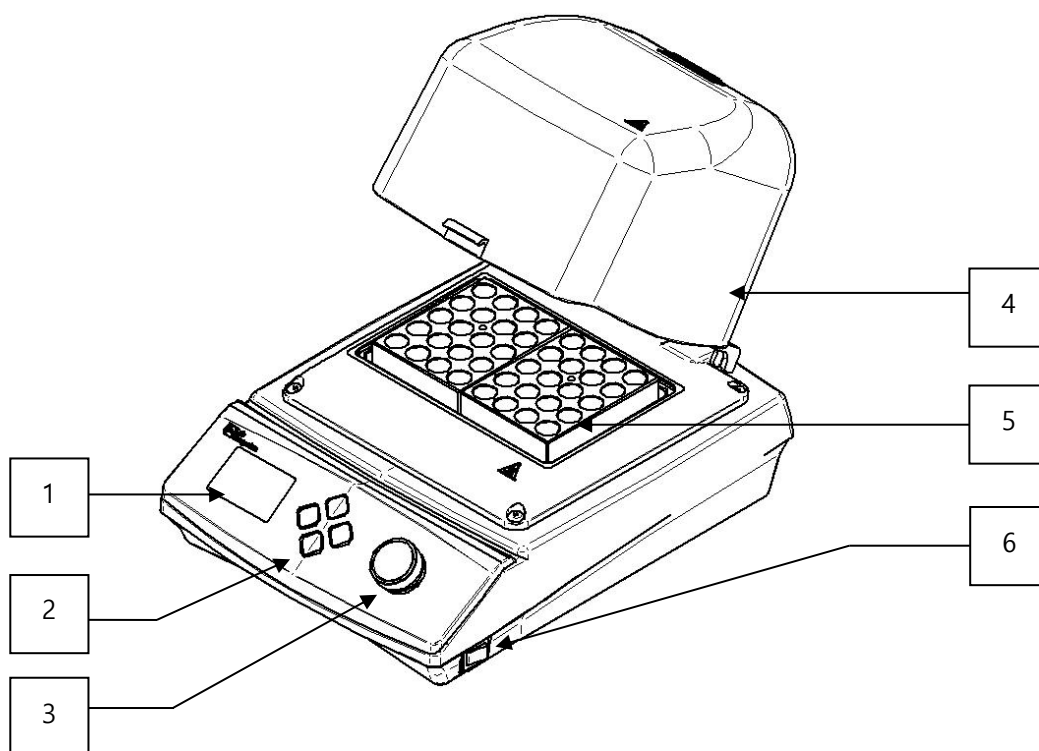
- (1) The transparent Lid made of PC can be support the easy indicate with good temperature distribution during heating conditions.
- (2) Heating temperature: Ambient +5 ~ 130°C (0.1°C resolution).
- (3) Displayed set temperature value with current temperature value.
- (4) Easy to indicate set temperature value and operating condition use of VFD (Vacuum Fluorescent Display). And conveniently control the product by touch button and dial knob.
- (5) Provide two type of timer. (1min.~99hrs. 59min.)
 - Timer 1: Timer activation starts only after reaching the set temperature.
 - Timer 2: Timer activation starts right after the timer setting.
- (6) The main body is made by polypropylene (PP). The material support to good chemical resistant with easy to cleaning.
- (7) Easy to exchange the block using “Extractor” which is located back side of product. refer 8.Accessories)
- (8) Depend on using tube and block, user can choose their purpose between CHB-350S and CHB-350T. (refer 8.Accessories)

2.3 Construction

[CHB-350S]



[CHB-350T]

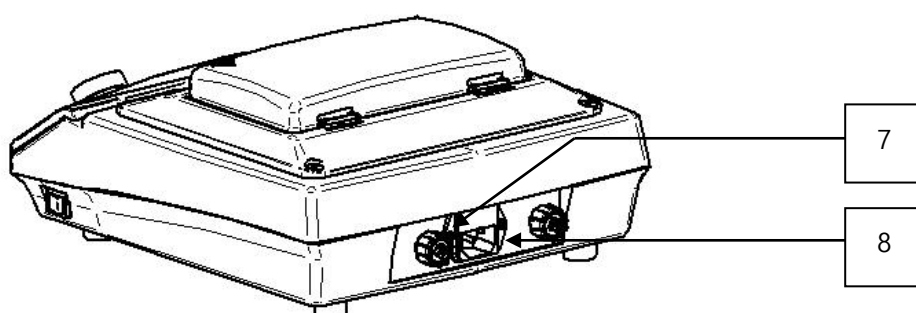


- (1) VFD (Vacuum Fluorescent Display) : The panel indicates product setting and control condition. (refer 4.1)
- (2) Touch button : To choose temperature, timer, start and stop. (refer 4.1)
- (3) Dial knob : to set a temperature/ timer, and start / stop.
- (4) Lid : user can indicate sample state during the heating, and distribute uniform temperature.
- (5) 1.5ml tube block(CHB-350S,Optional) : to set 48 ea (1.5ml) tube on block.

Ø15 block (CHB-350T,Optional) : to set 20 ea (Ø15) tube on block.

Provide the various size of Tube block. Please refer (8. Accessories).

- (6) Power switch: It is the main ON/OFF switch and supplying power of the product.
- (7) Extractor : Use of when block exchange. (refer 4.4)
- (8) Socket: Connect the power cable on the socket.



3.0 Installation

3.1 Unpacking the package and Inspecting damage during transportations

- (1) Check to see that the unit is not damaged before unpacking.
- (2) Unpack the unit carefully.
- (3) Inspect to see that the unit is not damaged during transportations.

3.2 Checking the unit components

- (1) Please check the unit components supplied packaged in the package after unpacking.
- (2) If noticeable damage or an omission is found, immediately notify your local Jeio Tech dealer's Service Department.

Item	Quantity	Description
Operating Manual	1	-
Main unit	1	-
Power cord	1	-
Extractor	2	-

3.3 Installation

3.3.1 Installing environment

- Temperature: 2 ~ 50 °C
- Relative Humidity : up to 80 %R.H.
- Maximum attitude: up to 2,000 m

 WARNING

The unit should be located away from naked flame sources, direct sunlight. It can come with the malfunction or lower the function.

3.3.2 Location conditions

Place the unit table as far as possible when in use, and keep suitable distance not to be placed from other instruments (normally 30 cm)

CAUTION

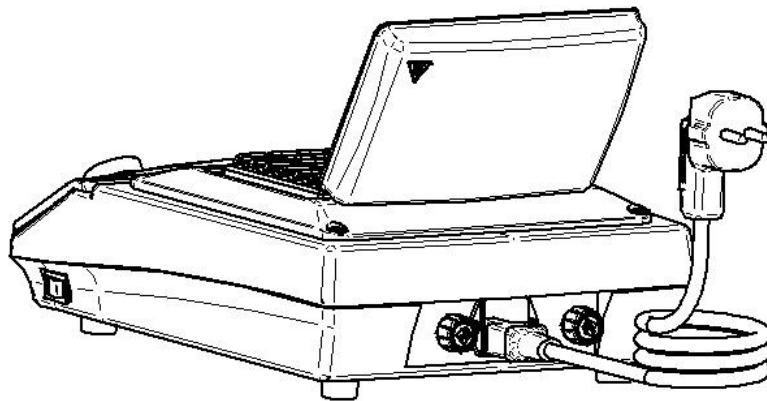
Please install the unit near power supply and using power conveniently.
Place and install the unit on the stable fireproof surface with non-slip and non-moisture.

3.3.3 connecting to the mains power supply

Connect the electric power to the unit according to the following process

STEP 1 : Switch off the main switch before connecting power cable

STEP 2 : Connect the power cable on the socket located on the back side of the unit.



WARNING

Ensure that the unit should be connected to a power supply that is an appropriate voltage, phase capacity.

Should use grounded power.

Never use a forked socket, or a double-tapped socket.

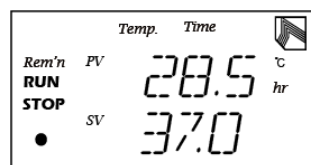
Failure to obey a safety warning will cause a drop in a line voltage, resulting in a loss of power and causing risk of fire by turning the cable.

4.0 Operation

4.1 Control panel and function

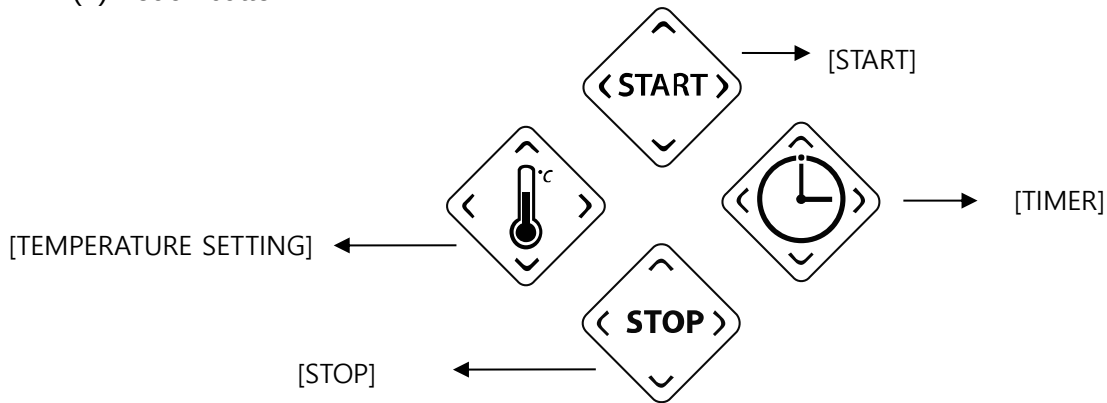


(1) VFD (Vacuum Fluorescent Display) : You can check the setting temperature and operational status.



- Rem'n : Remaining time in a timer mode
- Run : Display in running
- Stop : Display in stopping
- ● : Display when Heater is operating
- PV : Present Value
- SV : Setting Value
- Temp. : Temperature Value display
- Time : Timer Mode display

(2) Touch button



- **START** : After setting temperature, if you push start button, operation starts.



- **TEMPERATURE SETTING**: This is the button to set temperature of a block.



When you push it, temp. setting screen is displayed

- **STOP** : If you want to stop the heater or a timer operation, after pushing this, use a dial button.



- **TIMER** : Use this when you set timer.



When you use timer, if you push it once, you can see remaining Time and if you push it twice, you can reset the timer.

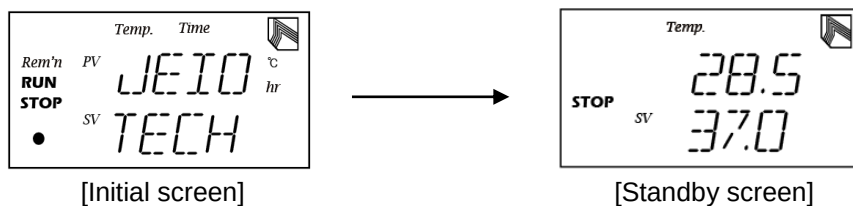
NOTICE

Touch button is displayed as green or red color. Before operation or during operation, if the button can be sensed, it is green. When it is red, it cannot sense touch.

(3) **Dial knob** : Use this when you set temperature and time and stop

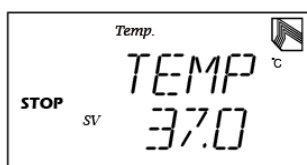
4.2 Temperature setting

Step 1. Turn the power switch on the bottom right.

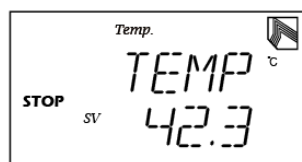


Then, the temperature that you used at the end is displayed as setting value (SV) and if the setting temperature is what you want, you can start heating by pressing the start button.

Step 2. If you press temperature setting button, temperature input screen is displayed.

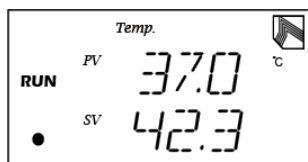


Enter setting value by turning the dial knob. Setting temperature can be entered by 0.1°C as a unit.

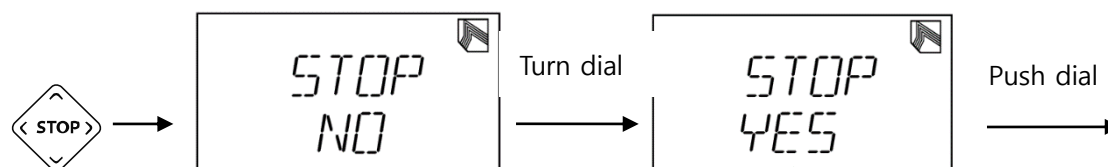


Save setting value by pressing the dial knob.

Step 3. If you press the start button, heating starts and it reaches to setting value.



Step 4. If experiment is finished, press the stop button and stop heating by using the dial knob.



NOTICE

During heater operation, a lamp ● on VFD flashes and if present value(PV) reaches setting value(SV), the heater maintain temperature by being stopped and operated continuously.

NOTICE

Setting temperature is saved after you turn off and on the unit, at this moment, if you press the start button, heating starts as the value that was entered at the last.

NOTICE

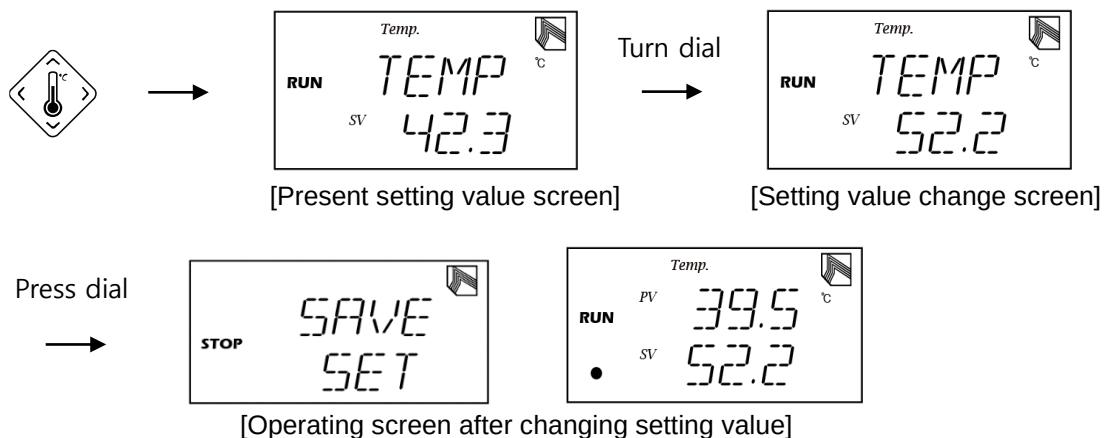
During operation, if you push the timer button once, remaining time is displayed.

CAUTION

After power is turned off, laboratory apparatus and block could be hot. Please be careful.

4.2.1 Changing setting value during operation

During operation, if you press the temperature setting button, you can check setting value.
At this moment, after you change setting value by the dial knob, you press the dial knob. Then, heating starts as the changed setting value.

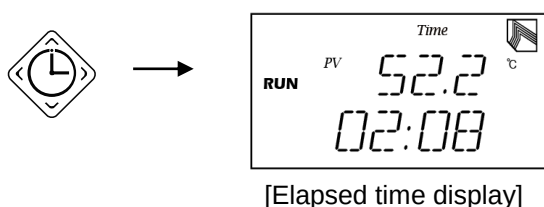


NOTICE

If after you set value, you don't press the dial knob and setting value is not saved, the screen is switched automatically to standby screen.

4.2.2 Checking elapsed time

During operation, if you press the timer button, you can check elapsed time from the time after operating.



After about 10 minutes, it is switched to status screen automatically.

4.3 Timer

CHB-350S,T has 2 timer function which are in stop and in operation as user's necessary.

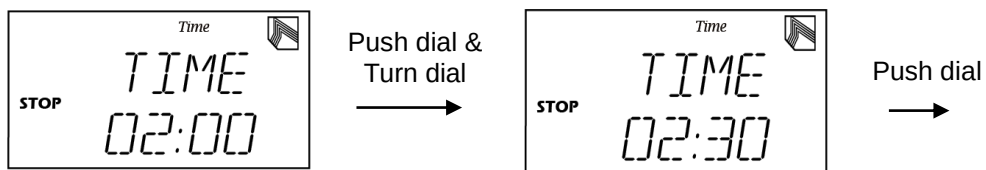
4.3.1 Timer 1- in stop states

Timer-1 can be set in stop states only. When it reaches to set temperature, timer is supposed to start.

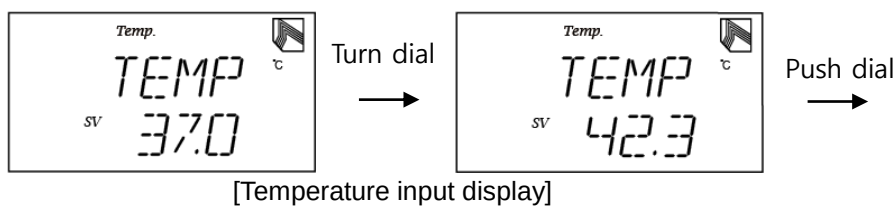
Step 1. Press Timer button



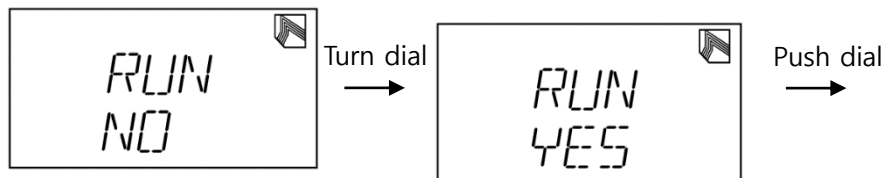
Step 2. Please input Hour, Minutes, Second by using dial knob.



Step 3. After input set temperature, please change "RUN NO → RUN YES" by using dial knob.



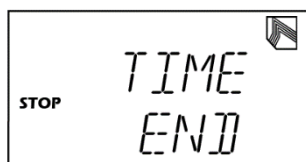
[Temperature input display]



When it reaches to set temperature, timer starts with sound.

Step 4. When heat finishes during the set time, finishing sound rings.

4.3.4 Please confirm the END again by looking display.



NOTICE

When you set Timer 1, Temperature reaches to set value by showing "Time" in VFD Display.

When it reaches to set temperature, sound rings and then Timer starts by showing "Time" which blinks in VFD.

NOTICE

If you press dial knob in the state of "RUN NO", it change to stand-by display without saving timer.

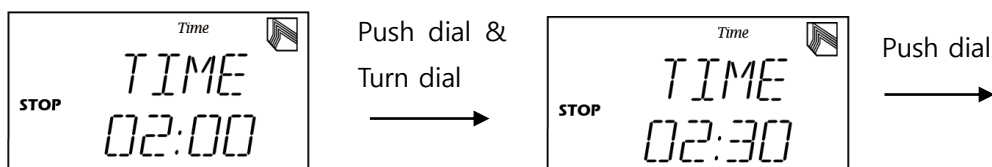
4.3.2 Timer- 2-in operation

Timer-2 is supposed to run once timer is set regardless of current temperature.

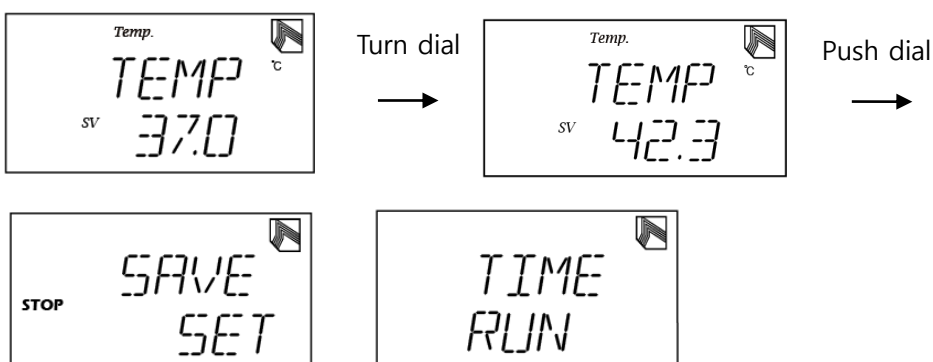
Step 1. Press Timer button twice.



Step 2. Please set time by using dial knob.



Step 3. Please set temperature.



Step 4. Finishing sound rings when heat finishes during set time.
4.3.4 Please confirm the END again by looking display.



NOTICE

When you set Timer-2 in operation, Timer starts to run although it does not reach to set temperature.

4.3.3 Change Timer function in operation of Timer.

Changed Timer function can be operated after set time & temperature and press time button twice in operation in advance.

NOTICE

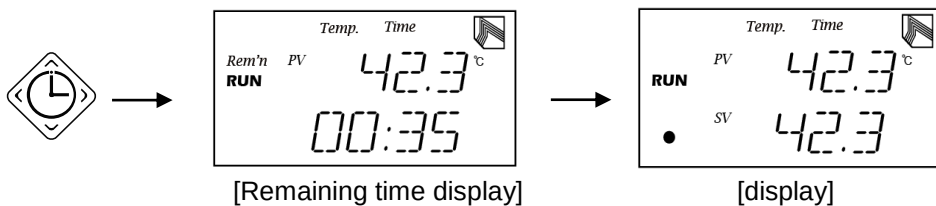
If press Timer button once in operation, remaining time is showed .

4.3.4 Timer stop

Please press any button when the finishing sound rings.
If you do not press any button, the sound rings every 5 seconds.

4.3.5 Checking remaining time in operation.

You can check the remaining time by pressing timer button.



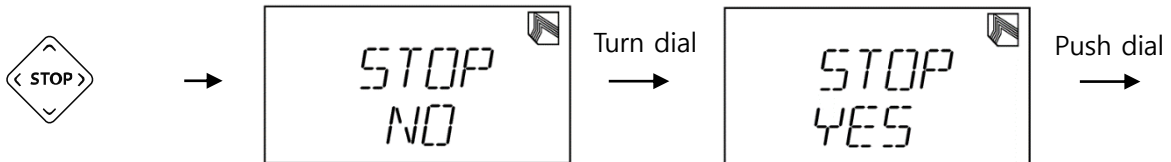
It is automatically converted to previous display in 10 seconds.

4.3.6 Timer stops in operation

You can stop timer in 2 ways.

(1) Press stop button in operation

Please change "STOP NO → STOP YES" by turning dial knob and press knob.
Then it stops.



(2) By using Switch

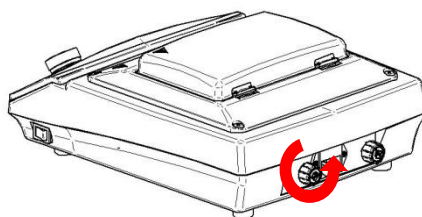
You can switch off by using switch button on the right side.

 **CAUTION**

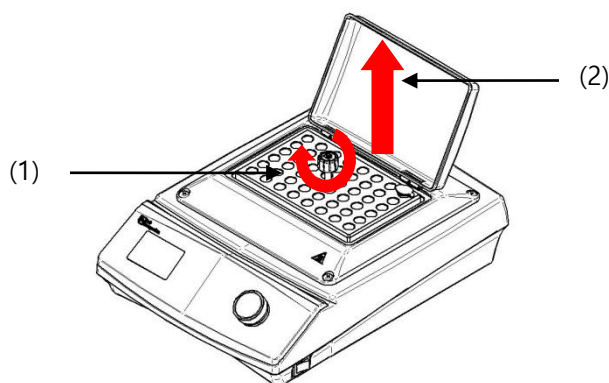
It can be hot for blocks and the unit even though switch is off.

4.4 How to replace a block

Step1. Remove the extractor that is attached to the back side of the unit by turning the screw counter-clockwise.



Step2. Fix a detached extractor a hole in the middle of the block of the unit by turning it clockwise as the picture below #1.



Step3. Detach the block by lifting it up from the unit in the direction of the arrow shown above picture #2.

Step4. Insert another block into the unit by using this extractor in the same way as above.

NOTICE

Different size of the blocks can be purchased separately.
(Refer to 8.Accessories)

⚠ CAUTION

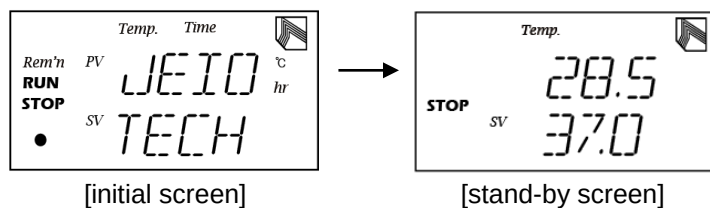
The unit and blocks can still be hot even after power is off.

4.5 Temperature Offsetting

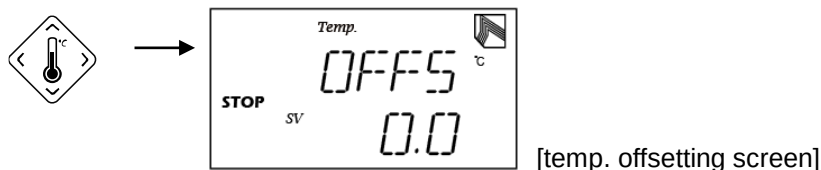
The temperature shown on the VFD is measured by a temperature sensor inside the unit. However, this temperature can be different from the temperature of your own thermometer which you may use as a standard for your specific applications. If needed, you can offset such temperature differences within the range of $\pm 50^{\circ}\text{C}$ at 0.1°C interval.

The temperature offsetting procedures are as follows:

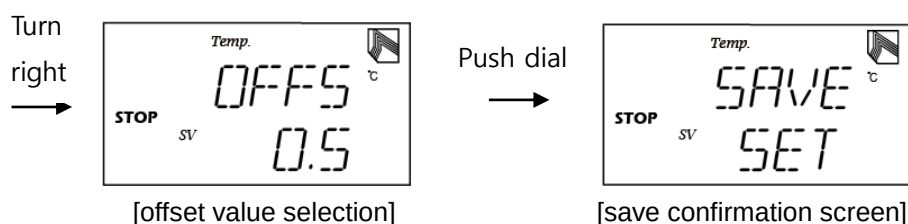
- 1) Turn the power on and wait until the stand-by screen appears.



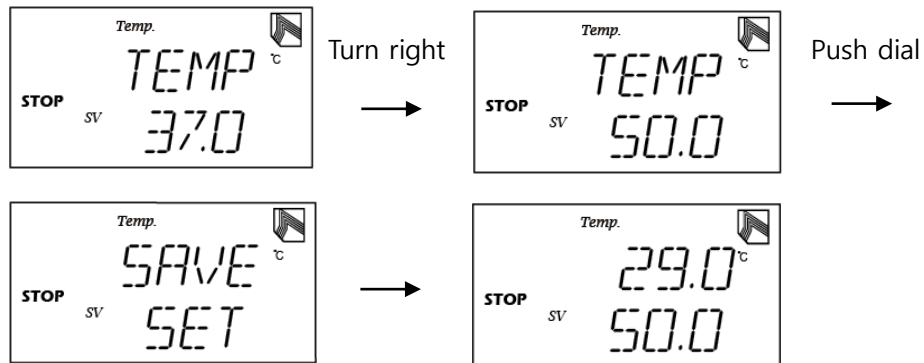
- 2) Press the Temperature Setting Button until the following temperature offsetting screen appears with audible alarm.



- 3) Select the offset value by turning the dial knob appropriately and, when selected, save it by pushing the dial knob. When properly saved, the save confirmation screen will appear as shown below:



- 4) The save confirmation screen will be followed by the temperature input screen so that you can change the temperature setting as described in 4.2. However, if you do not want to change the set temperature, press the Stop Button to return back to the stand-by screen. (Note that you can also return back to the stand-by screen if you do not take any action for more than 15 seconds.)



NOTICE

- You can cancel the temperature offsetting operation by pressing the Stop Button any time before saving the offset value.
 - You can't perform the temperature offsetting even during operation.
-

5.0 Safety device

- (1) The overheat protection device for Block.

The power automatically switches off when the block's temperature overheats more than 140°C which will activate this device to protect the unit.

- (2) The circuit protection device.

The power automatically switches off when the circuit's temperature overheats in a certain degree which will activate this device to protect the circuit inside of the unit.

- (3) The overcurrent protection device.

The power automatically switches off when the currency flows more than the given currency value which will activate this device to protect the unit.

NOTICE

The unit should be used after fully cooling it down when the unit is switched off by these kind of the protection devices.

6.0 Maintenance

6.1 Periodic maintenance

5tclassifications	A period of checking time	
	daily	weekly
Power cord		
- The conditions of connection for power supply and an adaptor	•	
- The presence of power supply and an adaptor contact wetting, and cable peeling off, and out of contact.	•	
Product surface cleaning		•
Block cleaning condition	•	
Controller function checking	•	
Check accessory attachments to the unit are tight.	•	

6.2 Cleaning of product

6.2.1 Main body

Remove a contaminant by cleaning the unit frequently with a soft cloth before and after using, otherwise it cannot be readily wiped out for a long time Keep the unit cleans always without any contaminant.

WARNING

DO NOT make the machine wet while cleaning.

CAUTION

Do not use chlorine bleach, ammonia-based cleaners, abrasives, ammonia, or metal scouring pads when cleaning.

6.2.2 Accessories

Remove a contaminant by cleaning the unit frequently with a soft cloth before and after using, otherwise it cannot be readily wiped out for a long time Keep the unit cleans always without any contaminant.

6.3 Relocation

- (1) Disconnect the power cord from the power outlet.
- (2) Pack the instrument and its accessories into the original packaging or any other suitable container before moving.

 CAUTION

Pay attention to avoid mechanical shock or vibration while moving the instrument. Damages caused by mechanical shock or vibration may result in injury or fire.

6.4 In case of not using for a long time

- (1) Unplug the unit from the main power.
- (2) Clean the unit with a soft cloth neatly.
- (3) Store in a dry place after packing.

7.0 Troubleshooting

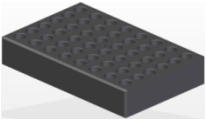
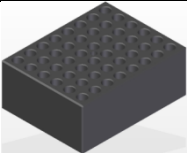
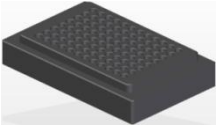
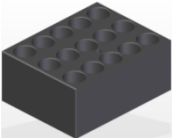
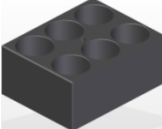
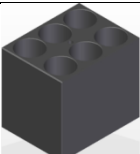
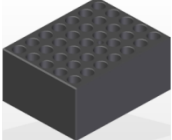
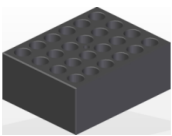
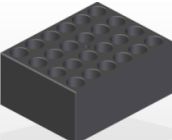
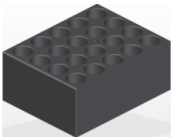
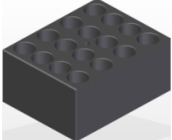
7.1 Electrical

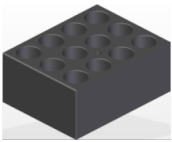
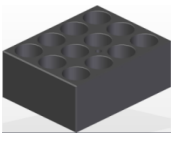
Trouble	Causes	Solution
The unit does not turn on	Incorrect electric power	Compare power source and voltage on the ID plate and make sure they are the same. ID plate is found on the back of unit.
	Power failure or circuit breaker shuts down	Find out the causes of power failure and recovery.
	Main plug not seated properly.	Check the electrical cord connection at the unit to ensure it is fully seated.
	Check the electrical cord connection at the unit to ensure it is fully seated.	If the socket / plug / main power line are cut, request service.
	PCB has damaged by reagent	Request service.
Room circuit breaker trips often when the unit is turned on or running	Too many plugs connect at the same time	1. Check the circuit breaker size along with the voltage and current supplied to it. 2. Check that several similar units are inserted together, if so you should not use overly.
	Product internal circuit problem	Request service
No VFD	Power failure	Find out the causes of power failure and recovery.
	Main plug not seated properly.	Check the electrical cord connection at the unit to ensure it is fully seated
Button doesn't operate well	Power failure	Find out the causes of power failure and recovery.
	Button switch has damaged	Request service.

7.2 Trouble during operation

Symptom	Cause	Action
Block is not heating up	Heater failure	Request service
	Product internal circuit problem	Request service
The dial knob isn't operation correctly	Dial knob or circuit problem.	Request service.
Error message on the display	Product internal circuit problem	Request service
the VFD lamp is not operating	Product internal circuit problem	Request service

8.0 Accessories

Blocks			Cat No.	Dimension (WxDxH, mm)
CHB-350T CHB-350S	1.5mℓX 48		CHB0028	153 X 98 X 41
	0.5mℓX 48		CHB0029	98 X 76.5 X 41
	96-wellPCR plate		CHB0030	153 X 98 X 41
CHB-350T	15mℓX 15		CHB0031	98 X 76.5 X 51
	50mℓX 6		CHB0032	98 X 76.5X 51
	50mℓX 6		CHB0033	98 X 76.5 X 87
	Ø10 X 35		CHB0034	98 X 76.5 X 51
	Ø12 X 24		CHB0035	98 X 76.5 X 51
	Ø13 X 24		CHB0036	98 X 76.5 X 51
	Ø15 X 20		CHB0037	98 X 76.5 X 51
	Ø16 X 16		CHB0038	98 X 76.5 X 51

	Ø18 X 12		CHB0039	98 X 76.5 X 51
	Ø20 X 12		CHB0040	98 X 76.5 X 51

9.0 Appendix

9.1 Technical specification

Model		CHB-350S	CHB-350T
Temperature	Range (°C)	Ambient +5 to 130	
	Display	up to 130°C, 0.1°C resolution	
	Fluctuation (°C/°F)	± 0.1/0.18 (at 80°C)	
	Variation (°C/°F)	± 0.5/9 (at 80°C)	
	Control	PID feedback	
	Heat-up time to 130°C (min)	15	
Timer		1min to 99 hrs 59 min, 2-TYPE (Timer1, Timer2)	
Safety device		Over temperature protection (heat plate ,PCB) Over current detection	
Control panel		VFD(Vacuum Fluorescent Display), 4 Touch keys, Dial knob	
Material	Body	PP, Powder coated steel	
	Cover	PC,	
	Block	Black hard anodized Aluminum	
Dimension	Overall(W x D x H,mm)	249 X 330 X 120	249 X 330 X 250
	Net weight(kg)	3.9	4.3
Electrical requirements	(230V,50/60 Hz,A)	3.5	
	(120,60 Hz,A)	6.7	

※ Specifications can be changed without prior notice for quality upgrade

※ Permissible ambient condition: 2~50°C, Relative humidity up to 80%

9.2 Disposing of the product

Before disposing of the shaker or any of its components:



1. The equipment should be cleaned and decontaminated to protect workers servicing the equipment, the environment or the public purchasing surplus equipment because the shaker can potentially be contaminated with biological material, chemicals or radioisotopes. Check with your institution or laboratory for individual policies and procedures for disposal of laboratory equipment.
2. Please contact your local governing body for regulations regarding disposal of electrical, electronic, metal (brass, aluminum, steel and stainless steel), refrigeration and rubber components. Jeio Tech recommends the user find a local scavenger or laboratory equipment recycler to properly dispose of the unit and its components.

9.3 Warranty

9.3.1 Warranty period

- (1) If the product fails during normal and proper use, the warranty period for manufacturing liability shall be two years from the date of delivery.
- (2) If you request a repair, please check the items below and let us know so that you can get a quicker and more accurate repair.

- | |
|---|
| <ul style="list-style-type: none">• Date of purchase:• Customer name / address / phone number / E-mail:• Fault status• Model• Serial number |
|---|

9.3.2 Technical Service Contact Points

Technical Services

Address : 153 (Yongsan-dong), Techno 2-ro Yuseong-gu, Daejeon-city, 34025, Republic of Korea

Tel : +82 (0)2 -2627-3824

Website : <https://www.jeiotech.com/eng/>

E-mail : overseas@jeiotech.com

9.3.3 Certificate of Product Warranty

This is a guide to the product quality warranty and service terms provided by JEIOTECH Co., Ltd

All products are guaranteed to operate normally when installed under proper conditions, as specified in the user manual for each product, and used according to the intended purposes and permissible operating conditions.

The warranty period for product quality starts from the delivery date and is indicated in the catalog provided for each product or in the purchase order agreed upon with the customer. If a product malfunctions within the warranty period, JEIOTECH Co., Ltd. provides free repair services. However, among the transportation costs incurred during the repair process, any special costs resulting from the customer's site conditions (e.g., door or wall modifications, use of special handling equipment) are not covered under the warranty. Furthermore, JEIOTECH's liability under this warranty is limited to replacing the product or refunding the original purchase price at JEIOTECH's sole discretion if reasonable attempts to repair or replace the product fail.

Parts replaced during free repairs within the warranty period become the property of JEIOTECH Co., Ltd. Additionally, the warranty period is not extended due to free repairs. JEIOTECH is not responsible for any losses incurred by the customer due to delays in repairs caused by issues such as part shortages or shipping delays.

The following cases will be handled as paid repairs, even within the warranty period:

1. Non-defective cases

- * Requests to resolve issues arising from improper operating environments or abnormal installations.
- * Reinstallation requests or connections with external equipment other than the initial installation.
- * Requests for usage instructions or simple adjustments that do not require disassembly.
- * Inspections of non-defective products.
- * Cleaning or debris removal service requests.

2. Failures caused by user errors:

- * Malfunctions due to usage not in accordance with the user manual.
- * Issues resulting from improper operating environments or abnormal installations.
- * Malfunctions caused by incompatible chemical usage.
- * Malfunctions caused by irregular or improper electrical or utility supplies.
- * Damage due to product movement, storage, external impact, or dropping by the customer.
- * Malfunctions resulting from unauthorized modifications or repairs without prior written approval from JEIOTECH Co., Ltd.
- * Malfunctions caused by using consumables or optional components not specified by JEIOTECH Co., Ltd.
- * Repairs performed by personnel other than JEIOTECH or its authorized service agents.

3. Other cases

- * When the product model or serial number has been damaged, removed, manipulated, or altered.
- * Malfunctions caused by fire, flooding, or other natural disasters.
- * Failure due to consumable parts reaching the end of their lifespan (e.g., lamps, filters, fuses, gaskets, packings, hoses, heat transfer fluids).
- * Natural wear and tear (e.g., discoloration, screen printing degradation).
- * Damage or malfunction of product accessories (e.g., power cables, data cables, glass components) or options.
- * Malfunctions caused by errors in computers, computer components, or connected network systems.

- Before JEIOTECH performs free or paid repairs or accepts the return of a product, the customer must ensure the product has been decontaminated of chemical and biological hazards.
- Replacement parts used during repairs may differ from the original but will function correctly and be equivalent in performance.
- JEIOTECH does not bear any responsibility for damage to stored samples, data loss, or any other direct or indirect damages caused by product malfunctions, regardless of the warranty period.

- JEIOTECH does not guarantee issues related to computers, computer components, or network systems connected to the product, regardless of the warranty period.
- This warranty is the sole and exclusive warranty provided. Any implied warranties imposed by applicable laws are limited to the warranty period stated herein. This warranty cannot be modified by any verbal advice, statements, or documents on behalf of JEIOTECH unless explicitly labeled as a "Warranty Amendment" and signed by an authorized representative of JEIOTECH.
- This warranty applies only to products purchased for direct use by the customer. It does not cover products purchased for resale purposes without prior written approval from JEIOTECH.
- This warranty does not apply to consumables and is non-transferable.

- The contents of this manual can be changed or upgraded without prior notice.
- The copyright of this manual is reserved by Jeio Tech.