

EH/EG SERIES

Hotplate



USER MANUAL – Version 202305HP

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DISCLAIMER

Thank you for selecting our products.

We are sure that you will be completely satisfied with the performance of this new unit entering your laboratory. We invite you to carefully read this user manual and to keep it close to the instrument for convenient and fast consulting. For any possible clarification or any request for assistance please contact either your local Representative or LabTech at the following address:

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The contents of this document are subjected to change without notice. All technical information in this document is for reference purposes only.

INTRODUCTION

About your system

Thank you for selecting our Hotplates.

We are sure that you will be completely satisfied with the performance of this new unit entering your laboratory. We invite you to carefully read this user manual and to keep it close to the instrument for convenient and fast consulting.

Compliance

Products tested and found compliant with the requirements defined in the EC Council Directive for Electromagnetic Compatibility established by 2014/30/EU as well as Low Voltage Directive (LVD) 2014/35/EU can be identified by the CE mark on the rear of the unit. The testing has demonstrated compliance with the following directives:

- EN 61010-1:2010
- EN 61326-1:2013
- 2014/35/EC
- 2014/30/EC
- 2011/65/EC

WEEE/RoHS

This product is required to comply with the European Union's Waste Electrical & Electronic Equipment (WEEE) Directive 2011/65/EC. It is marked with the following symbol:



Warranties and Liabilities

Seller warrants the products manufactured and sold by it, to be, for the period of warranty coverage, free from defects of materials or workmanship under normal prior use and service. The period of warranty coverage is specified for the respective products in the respective Seller instruction manuals for those products but shall in no event exceed 1 year from the date of shipment thereof by Seller. Seller's liability under this warranty is limited to such of the above products or parts thereof as are returned, prepaid transportation to Seller's plant, not later than 10 days after the expiration of the period of warranty coverage in respect thereof and are found by Seller's examination to have failed to function properly because of defective workmanship or materials and not because of improper installation or misuse and is limited to, at Seller's election, either (a) repairing and returning the product or part thereof, or (b) improper installation or misuse and is limited to, at Seller's election, either (a) repairing and returning the product or part thereof, or (b) furnishing a replacement product or part thereof, prepaid transportation by Seller in either case. In an event Buyer discovers or learns that a product does not conform to warranty, Buyer shall immediately notify Seller in writing of such non-conformity, specifying in reasonable detail the nature of such non-conformity. If Seller is not provided with such written notification, Seller shall not be liable for any further damages which could have been avoided if Seller had been provided with immediate written notification, this warranty is made and accepted in lieu of all other warranties, express or implied. All other obligations and liabilities of Seller, whether in contract or tort (including negligence) or otherwise, are expressly excluded. In no event shall Seller be liable for any costs, expenses, or damages, whether direct or indirect, special, incidental, consequential, or other, on any claim of any defective product, more than the price paid by Buyer for the product including prepaid return transportation charges.

No warranty is made by Seller of any Seller product which has been installed, used or operated contrary to Seller's written instruction manual or which has been subjected to misuse, negligence or accident or has been repaired or altered by anyone other than Seller or which has been used in a manner or for a purpose for which the Seller product was not designed nor against any defects due to plans or instructions supplied to Seller by or for Buyer.

Conventions

All safety symbols are followed by **WARNING** or **CAUTION**, which indicates the degree of risk for personal injury and/or instrument damage. Cautions and warnings are followed by a description. A **WARNING** is intended to prevent improper actions that could cause personal injury. A **CAUTION** is intended to prevent improper actions that may cause personal injury and/or instrument damage. The following safety symbols may be found on your instrument and/or in this guide.



Burn Hazard: This symbol alerts you to the presence of a hot surface that *could* or *may* cause burn injuries.



Electrical Shock Hazard: This symbol indicates that an electrical shock could or may occur.



Fire Hazard: This symbol indicates a risk of fire or flammability could or may occur.

Contact us

There are several ways to contact LabTech Srl.

To contact Technical Support:

Phone +39 035 576614

E-mail customer.care@labtechsrl.com

To contact Application Department:

Phone +39 035 576614

E-mail customer.care@labtechsrl.com

To contact Sales Department:

Phone +39 035 576614

E-mail marketing@labtechsrl.com

To suggest changes to documentation:

Send an e-mail with subject: Technical Publications Editor at customer.care@labtechsrl.com

Safety Rules

General Information

Please carefully read this user manual before starting to use the instrument and follow its prescriptions with the utmost care. This user manual is part of the delivery, hence must be always kept together with the instrument on its working place.

It is imperative that every person operating with this system has read and fully understood this manual. The non-observance of the instructions contained herein, or improper use may involve damages/injuries that are not covered by product liability.

Please use the equipment within the fixed temperature range. Over-range using is forbidden because it may damage the control system.

Electrical safety

The instrument must be used within the rated voltage. Prior to use, please check if the wire is aged. In case of aged wires, please contact the after-sales service for inspection. It is forbidden to disassemble the instrument and to connect internal circuit parts, to avoid a short circuit or open circuit.

Please use the special-purpose and independent socket, and the capacity of cable must be enough. Besides, a safe protection ground wire must be allocated; otherwise, it may cause the electric accident.

Always turn off the equipment and disconnect the power cord from the power source before performing any service or maintenance procedures, or before moving the unit.

Fire safety

Numerous reagents are flammable and explosive. When the solvent vapor concentration reaches a certain level, it becomes flammable and could cause fire. The instrument should be kept away from the sources of ignition and high temperature places. If there is solvent pungent smell, carefully check whether there is gas or liquid leakage, and turn off the power.

Chemical safety

The unit is an instrument for organic chemical sample pre-treatment. The involved chemical solvents have harmful effects on the human health. Despite the instrument is fully closed and features full vent design, it is recommended to pay attention to the personal safety during the use. Regular check of liquid waste barrels as well as working conditions of the vent fan are required to avoid the risk of leakage caused by corrosion and to avoid the formation of organic solvent vapours affecting operator's health. If there is a fault, please contact the after-sales service.

Never place the equipment in a moist place.

Recommendation

The equipment cannot be covered in small object while working, in case that the high temperature damages the control system.

When the equipment is working or its temperature hasn't cooled down to the room temperature, make sure not to touch the heating board.

Observe all warning labels and never remove them.

Never operate damaged equipment.

Must leave a distance above 100mm around the equipment, if the distance is too short, it may cause articles around to be damaged.

Please put the equipment on a firm, strong holder.

It's better to consult the engineers of our company before performing maintenance; wrong action may damage the equipment and void the manufacturer's warranty.

Other Information

Make sure you read and understand all instructions and safety precautions listed in this manual before installing or operating your unit. If you have any questions concerning the operation of your unit or the information in this manual, please contact us.

Transport the unit with care. Sudden jolts or drops can damage the unit components.

General Information

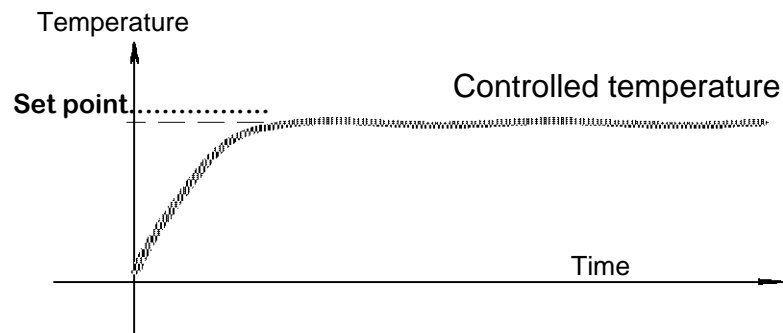
EH SERIES

EH20A Plus/EH35A Plus/EH45APLUS

The control panel consists of the following keys:



Graph of Temperature Control for EH20A Plus/EH35A Plus/EH45APLUS

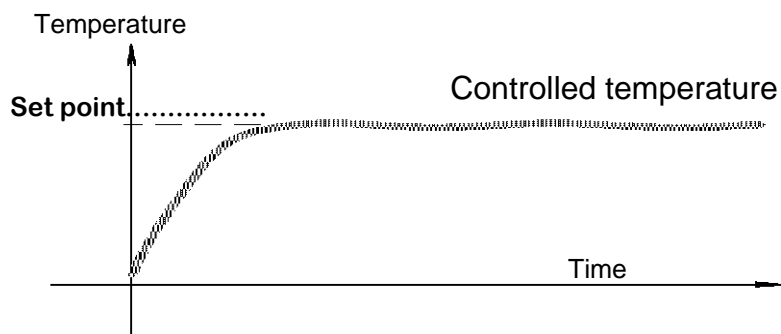


EH20B/EH35B/EH45B/EH45C

The control panel consists of the following keys:

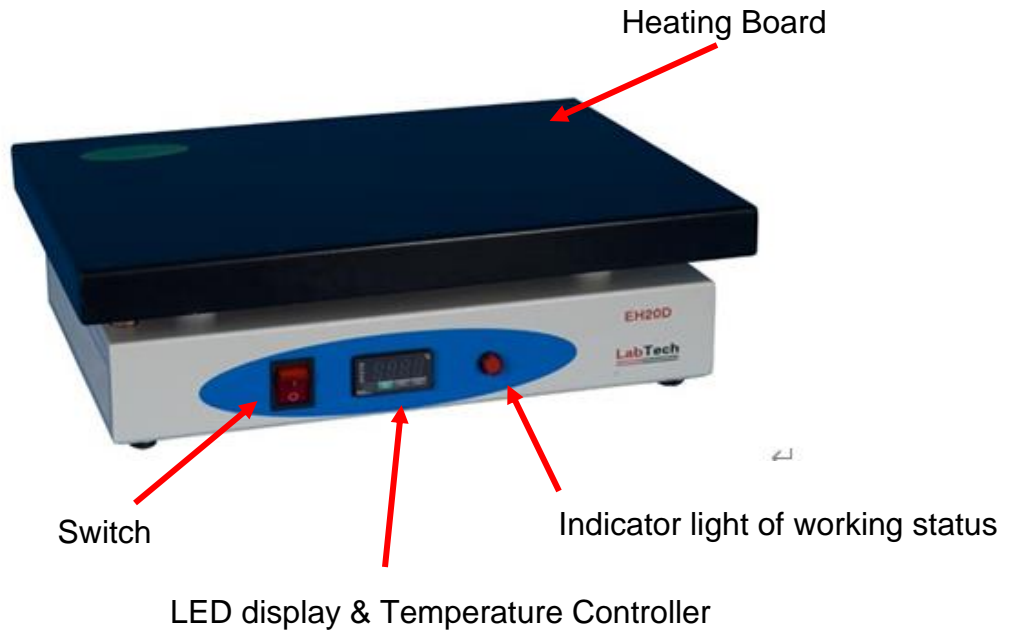


Graph of Temperature Control for EH20B/EH35B/EH45B/EH45C

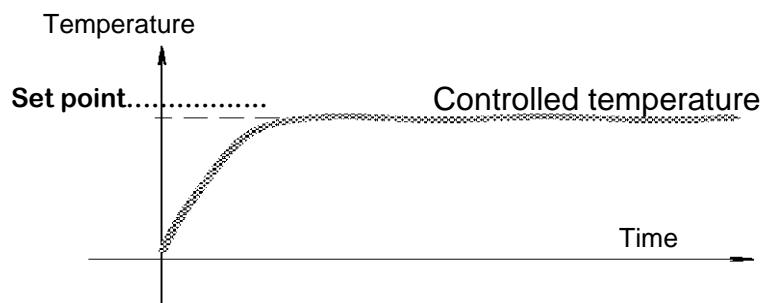


EH20D

The control panel consists of the following keys:



Graph of Temperature Control for EH20D

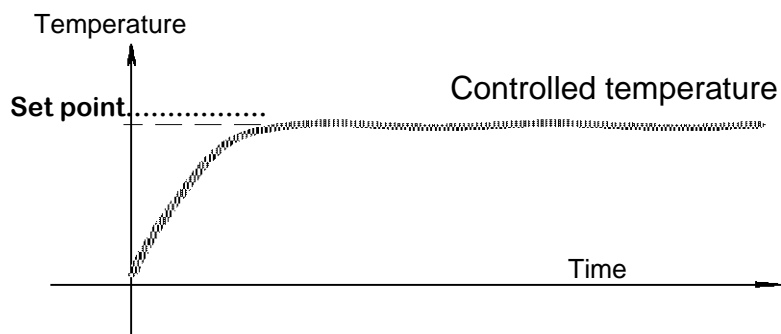


EH20S/EH35S/EH45S

The control panel consists of the following keys:

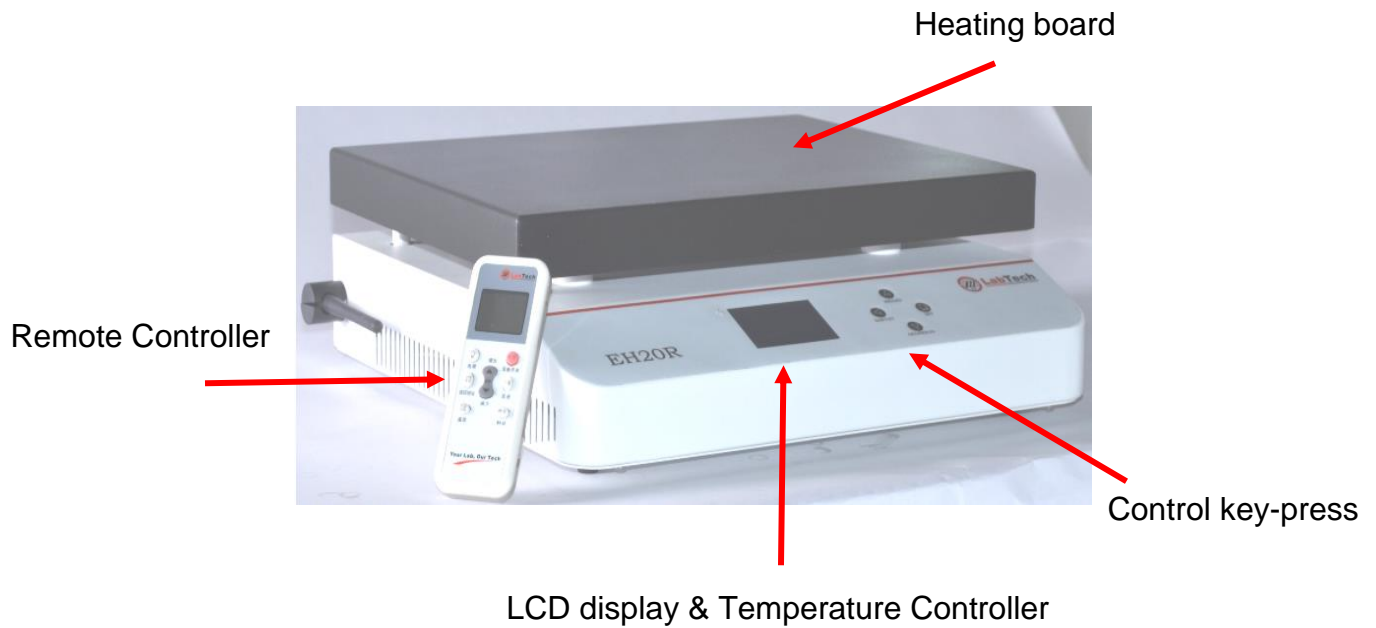


Graph of Temperature Control for EH20B/EH35B/EH45B/EH45C

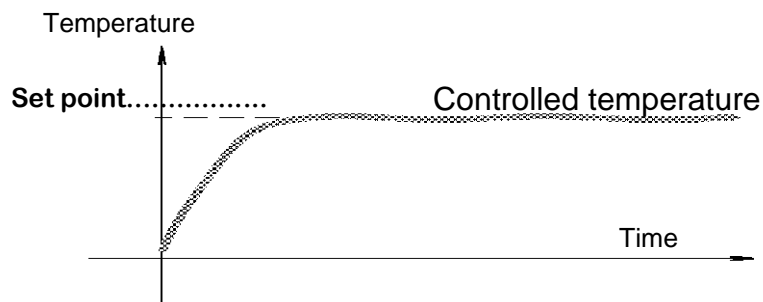


EH20R

The control panel consists of the following keys:



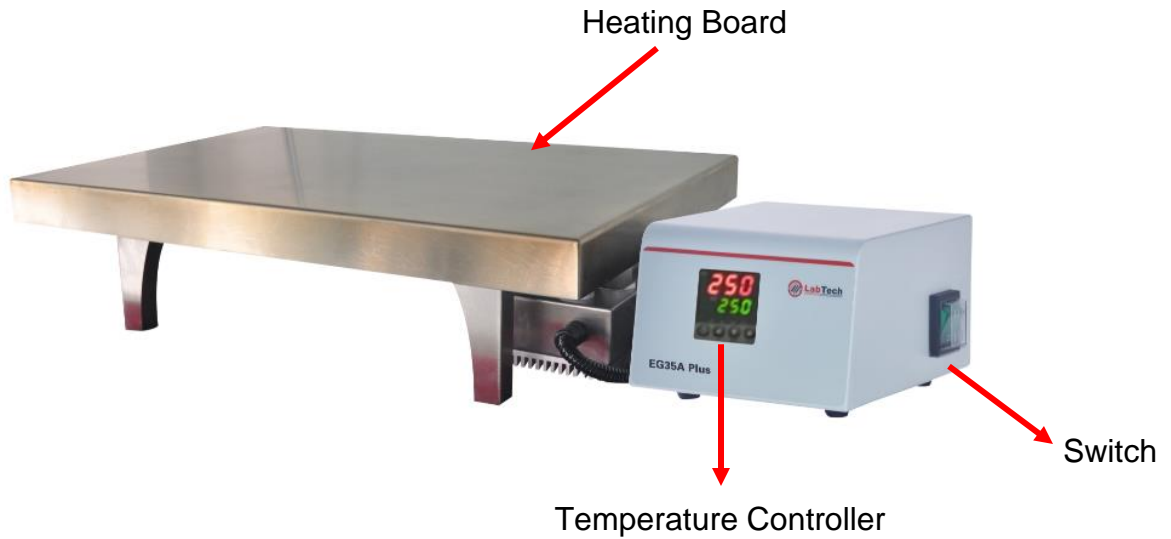
Graph of Temperature Control for EH20R



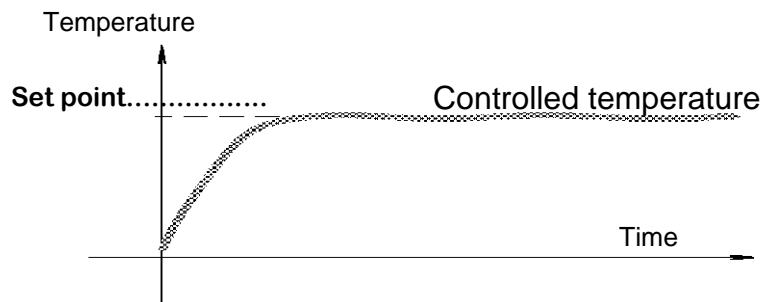
EG SERIES

EG20A Plus/EG35A Plus/EG37A Plus

The control panel consists of the following keys:

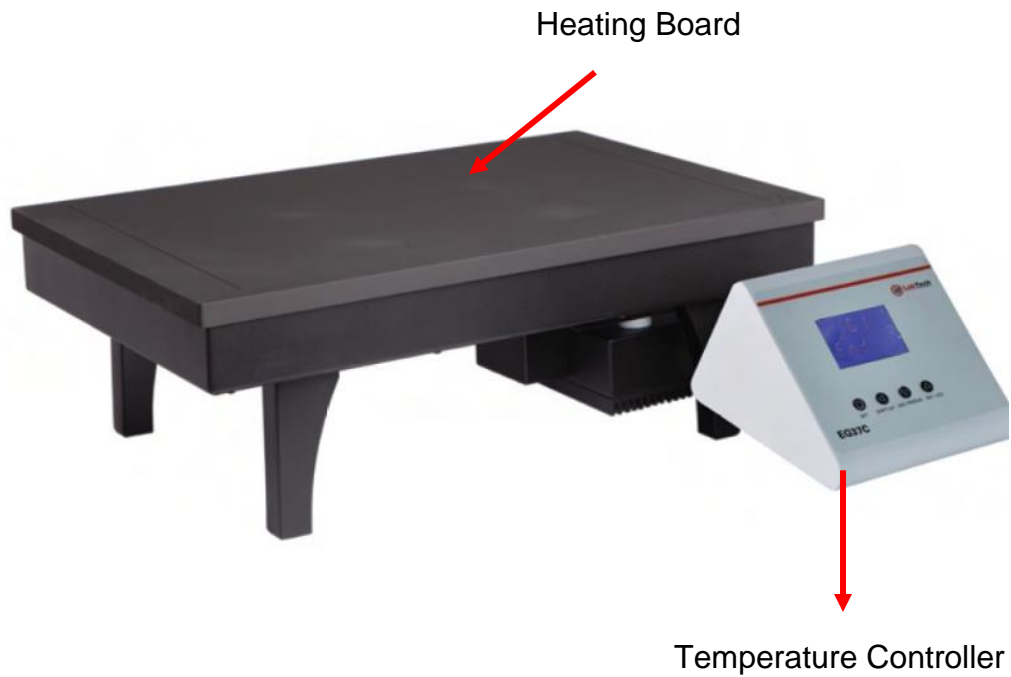


Graph of Temperature Control for EG20A Plus/EG35A Plus/EG37A Plus

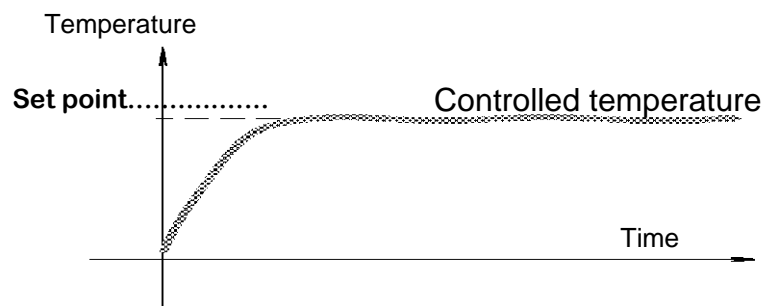


EG20B/EG35B/EG37B/EG37C

The control panel consists of the following keys:



Graph of Temperature Control for EG20B/EG35B/EG37B/EG37C



SPECIFICATION

The series of EH and EG temperature controllable, digital hotplate are electric heating instruments specially designed for laboratory application. It's a good choice for heating digestion, evaporation and acid distillation and fully satisfies the heating requirements of different laboratories.

EH series

| Model | Power | Type | Temp. range | Heating area | Temp. control mode | Temp. stability |
|------------|-------|-------------------------------|-----------------|--------------|--------------------------|-----------------|
| EH20A Plus | 2000W | corrosion-resistant | Ambient -200 °C | 40L×30Wcm | switch (digital display) | ± 5 °C |
| EH20B | 2000W | corrosion-resistant | Ambient -200 °C | 40L×30Wcm | PID (digital display) | ± 1 °C |
| EH20D | 2000W | corrosion-resistant | Ambient -200 °C | 40L×30Wcm | PID (digital display) | ± 0.2 °C |
| EH35A Plus | 2000W | high temperature | Ambient -350 °C | 40L×30Wcm | switch (digital display) | ± 5 °C |
| EH35B | 2000W | high temperature | Ambient -350 °C | 40L×30Wcm | PID (digital display) | ± 2 °C |
| EH45APlus | 2800W | Graphite | Ambient -450 °C | 36LX27Wcm | switch (digital display) | ± 5 °C |
| EH45B | 2800W | Graphite with ceramic coating | Ambient -450 °C | 36LX27Wcm | PID (digital display) | ± 2 °C |
| EH45C | 2800W | Graphite with ceramic coating | Ambient -450 °C | 36LX27Wcm | PID (digital display) | ± 2 °C |

EG series

| Model | Power | Type | Temp. range | Heating area | Temp. control mode | Temp. stability |
|------------|-------|------------------------------|-----------------|--------------|--------------------------|-----------------|
| EG20A Plus | 3000W | corrosion-resistant | Ambient -200 °C | 60L×40Wcm | switch (digital display) | ± 5 °C |
| EG20B | 3000W | corrosion-resistant | Ambient -200 °C | 60L×40Wcm | PID (digital display) | ± 2 °C |
| EG35A Plus | 3000W | high temperature | Ambient -350 °C | 60L×40Wcm | switch (digital display) | ± 5 °C |
| EG35B | 3000W | high temperature | Ambient -350 °C | 60L×40Wcm | PID (digital display) | ± 2 °C |
| EG37A Plus | 3200W | Graphite | Ambient -370 °C | 54L×36Wcm | switch (digital display) | ± 5 °C |
| EG37B | 3200W | Graphite | Ambient -370 °C | 54L×36Wcm | PID (digital display) | ± 2 °C |
| EG37C | 3200W | Graphite with Teflon coating | Ambient -370 °C | 54L×36Wcm | PID (digital display) | ± 2 °C |

NOTE: the temperature stability is tested in standard operating mode.

Installation

Site Requirements

Ambient Temperature Range: 10°C to 35°C (50°F to 94°F)
Relative Humidity Range: 10% to 80% (non-condensing)

Never place the unit in a location where excessive heat, moisture, or corrosive materials are present.

Positioning the instrument

Never place the unit in a location where excessive heat, moisture or corrosive materials are present.

Electrical Requirements

The unit provides extra protection against the risk of electrical shock by grounding appropriate metal parts. The extra protection may not function unless the power cord is connected to a properly grounded socket. It is the user's responsibility to assure a proper ground connection is provided.

The following power options are available:

The unit is supplied with a European power cable. It is used to relate to power supply. Plug the cord into socket and plug in rear into electric socket of the unit. Then the unit is ready to be used.

Operation

HOW TO OPERATE EH20A Plus /EH35A Plus/EH45Plus

Controller

- ① PV window: displays the actual temperature and parameter name
 - ② SV window: displays the temperature setpoint, alarm and value of parameters
 - ③ Temperature increase key
 - ④ Temperature decrease key
 - ⑤ Transposition key (Self-tuning start key)
 - ⑥ Parameter set key
 - ⑦ LED display
- OP1--Output
AU1--Auxiliary alarm no.1
AU2-- Auxiliary alarm no.2
PRG--Program Running



Temperature Control EH20A Plus /EH35A Plus/EH45Plus

Under basic display status, the temperature can be set by pressing ◀, ▼ or ▲.

◀ is the transposition key. Press ▼ to decrease the value and ▲ to increase the value, at the same time the transposition point will be flashing. Press and hold ▼ or ▲ to decrease or increase the value quickly.

NOTE: the function menu includes self-calibration, unlock parameter setup, etc. They are factory set parameters. Please do not change these parameters if not necessary. If you want to change them, please kindly contact the Labtech Service Team.

HOW TO OPERATE EH20B/EH35B/EH45B/EH45C

Control Panel



SET Set or check temperature, holding time and other parameters.

SHIFT/AT In set interface, the key is a digital transposition key. In other interface, press and hold the key for 6 seconds to enter or quit auto-calibration system.

DEC/RERUN In set interface, press the key to decrease value, press and hold it to speed up the value decrease. In other interface, press and hold the key for 3 seconds can rerun the system after finishing the heating method.

INC/LED In set interface, press the key to increase value, press and hold it to speed up the value increase. In another interface, press the key to backlight on/off.

Temperature Control EH20B/EH35B/EH45B/EH45C

Switch on the unit and the LCD will display "8888" for 3 seconds then enter normal interface.

How to set temperature and holding time on setpoint?

Press SET key to enter the temperature set interface, SP will be displayed on the upper line, then the temperature can be set up via \triangle ∇ \leftarrow

Press SET key again to enter the holding time set interface, ST will be displayed on the upper line, then the desired holding time can be set on the setpoint. Press SET key again to save and quit the set interface.

The lower line of the LCD screen displays the total running time. When the requested temperature reaches the setpoint, the timer starts and the second signal of time flashes. The screen will display End when the holding time is over, also the beeper will keep buzzing for 30s. Press and hold ∇ to rerun the unit.

Note: the holding time can be set from 00:01 to 99:59.

Set the holding time to 0, the lower line of the LCD screen will display the setpoint temperature and the hotplate will keep the heating state.

When the unit is overheating, the buzzer will sound and ALM will be displayed on the LCD screen. If the overheating state is caused by the temperature set operation, there will be no buzz and only ALM be displayed on the screen. Pressing any key can stop the buzzer.

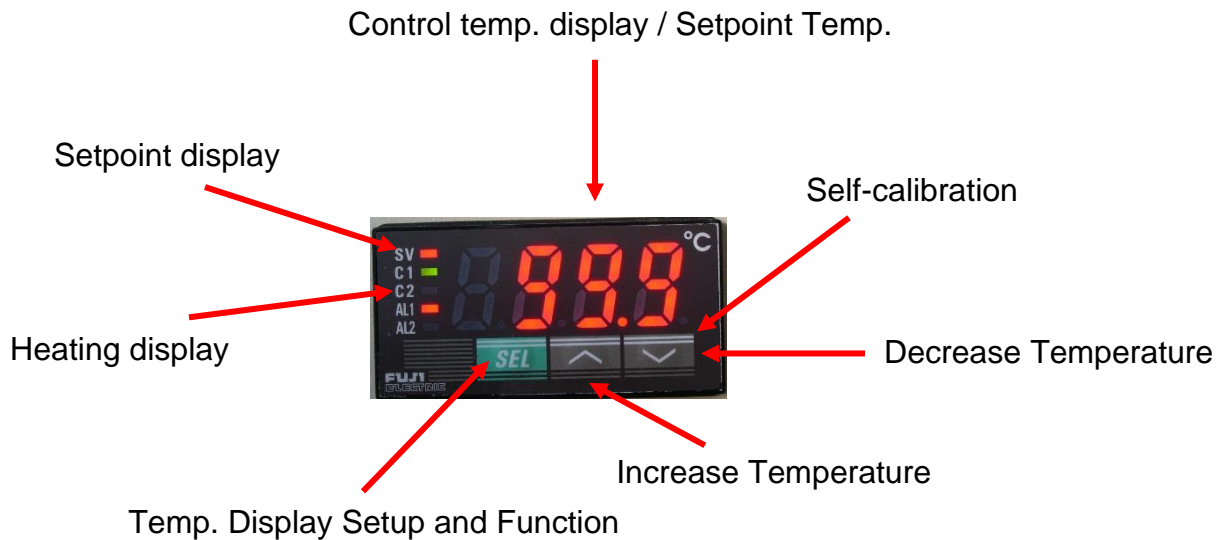
In parameter set interface, the screen will turn to normal interface automatically when there is no operation in 1 minute.

If "---" appears in the upper line of the LCD screen, there must be a malfunction of the temperature sensor or the controller itself, therefore please contact the Labtech Service Team.

Note: during operation, if the temperature is higher than 10°C in comparison to the setpoint and still rising, please switch off the unit immediately and contact the Labtech Service Team.

HOW TO OPERATE EH20D

Controller



Temperature Control EH20D

Press the **SEL** key one time to turn on the SV indicator, that's come to temperature setpoint menu.

Press ▲ and ▼ to adjust the temperature.

Press the **SEL** key one time to exit the temperature setpoint menu and the SV indicator light will turn off.

Press and hold the **SEL** key to enter the function menu of the D controller. After entering the menu, press and hold the **SEL** key until the real temperature appears and loose the **SEL** key to exit the function menu.

NOTE: the function menu includes self-calibration, unlock parameter setup, etc. They are factory set parameters. Please do not change these parameters if not necessary. If you want to change them, please kindly contact the Labtech Service Team.

HOW TO OPERATE EG20A PLUS / EG35A PLUS / EG37A PLUS






Controller

- ① PV window: displays the actual temperature and parameter name
 - ② SV window: displays the temperature setpoint, alarm and value of parameters
 - ③ Temperature increase key
 - ④ Temperature decrease key
 - ⑤ Transposition key (Self-tuning start key)
 - ⑥ Parameter set key
 - ⑦ LED display
- OP1--Output
AU1--Auxiliary alarm no.1
AU2-- Auxiliary alarm no.2
PRG--Program Running



Temperature Control EG20A Plus/EG35A Plus/EG37A Plus

Under basic display status, the temperature can be set by pressing ,  or .

 is the transposition key. Press  to decrease the value and  to increase the value, at the same time the transposition point will be flashing. Press and hold  or  to decrease or increase the value quickly.

NOTE: the function menu includes self-calibration, unlock parameter setup, etc. They are factory set parameters. Please do not change these parameters if not necessary. If you want to change them, please kindly contact the Labtech Service Team.

HOW TO OPERATE EG20B/EG35B/EG37B/EG37C

Controller

SET Set or check temperature, holding time and other parameters.

SHIFT/AT in set interface, the key is a digital transposition key. In other interface, press and hold the key for 6 seconds to enter or quit the auto-calibration system.

DEC/RERUN In set interface, press the key to decrease value, press and hold it to speed up the value decrease. In other interface, press and hold the key for 3 seconds can rerun the system after finishing the heating method.

INC/LED in set interface, press the key to increase value, press and hold it to speed up the value increase. In another interface, press the key to backlight on/off.



Temperature Control EG20A Plus/EG35A Plus/EG37APlus

Switch ON the unit and the LCD will display "8888" for 3 seconds then enter normal interface.

How to set temperature and holding time on setpoint

Press the SET key to enter the temperature set interface, SP will be displayed on the upper line then the temperature can be set via \triangle ∇ \leftarrow

Press the SET key again to enter the holding time set interface, ST will be displayed on the upper line then the desired holding time can be set on the setpoint. Press the SET key again to save and quit the set interface.

The lower line of the LCD screen displays the total running time. When the actual temperature is up to the setpoint, the timer starts and the second signal of time flashes. The screen will display End when the holding time is over also the beeper will keep buzzing for 30s. Press and hold ∇ to rerun the unit.

Note: the holding time can be set from 00:01 to 99:59.

Set the holding time to 0, the lower line of LCD screen will display the setpoint temperature and the hotplate will keep the heating state.

When the unit is overheating, the buzzer will alarm and ALM will be displayed on the LCD screen. If the overheating state is caused by the temperature set operation, there will be no buzz and only ALM be displayed on the screen.

Press any key can stop the buzzer.

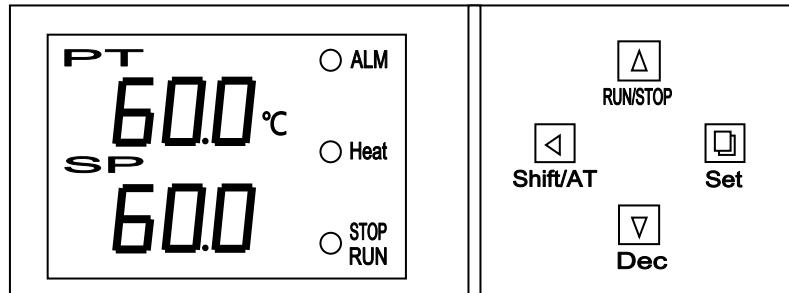
In parameter set interface, the screen will turn to normal interface automatically when there is no operation in 1 minute.

If "---" appears on the upper line of the LCD screen, there must be a malfunction of the temperature sensor or the controller itself, therefore please contact the Labtech Service Team.

Note: during operation, if the temperature is higher than 10°C in comparison to the setpoint and still rising, please switch off the unit immediately and contact the Labtech Service Team.

HOW TO OPERATE EH20S/EH35S/EH45S

Control Panel



SET Set or check program step, temperature, holding time and other parameters.

SHIFT/AT In set interface, the key is a digital transposition key. In other interface, press and hold the key for 6 seconds to enter or quit auto-tune function.

DEC In set interface, press the key to decrease value, press and hold it to speed up the value decrease. In other interface, press and hold the key for 3 seconds can rerun the system after finishing the heating method.

RUN/STOP Press and hold for 2s to run/stop the unit. In set interface, press the key to increase value, press and hold it to speed up the value increase.

Note: Always keep the screen and control board clean.

Temperature Control - EH20S/EH35S/EH45S

How to select a method and run it?

Press SET key to enter temperature set interface, F-1 will be displayed in the upper line then you can shift to any method from F-1 to F-10 via. △ ▽ ◀


Press Shift/AT key to save the selected method to home page.

Press and hold Run/Stop key for 2s to run the method.

How to set a program method?

Press SET key to enter temperature set interface, F-1 will be displayed then you can change to a method from F-1 to F-10 that need to be revised.

Press SET key to enter the target method set page, setpoint temperature in the upper line and current step no. (C01 to C05) in the second line will be displayed. Then you could revise the temperature, press SET key again to enter holding time set interface, ST will be displayed in the upper line then you can set desired holding time at the setpoint temperature. Continuous press SET key to set step temperatures and holding time, press and hold SET to save and quit the set interface.

The lower line of LCD screen displays the total running time. When the actual temperature is up to the setpoint, the timer starts and the second signal of time flash. The screen will display End when the holding time is over also the beeper will keep buzzing for 30s. Press and hold  to rerun the unit.

Note: The holding time can be set from 00:01 (1min) to 99:59.

Set the holding time to 0, the lower line of LCD screen will display the setpoint temperature and the hotplate will keep heating state.

Method Stop

In a method setting interface, you could set the last step holding time to -1:06, the method will automatically end at this step.

You can also manually stop the heating by pressing and hold Run/Stop key for 2 seconds.

Realtime Display

During running of a method, you could check the operation info. by clicking Shift/AT key. Click Shift/AT one time, setpoint temperature and current running step no. will be displayed, click Shift/AT twice, method setting time and running time will be displayed.

Alarm

When the unit is overheating, the buzzer will alarm and ALM will be displayed in the LCD screen. If the overheating state was caused by temperature set operation, there will be no buzz and only ALM be displayed in the screen.

Press any key can stop the buzzer.

In parameter set interface, the screen will turn back to normal interface automatically when no operation in 1 minute.

If "---" were displayed in the upper line of the LCD screen, there must be malfunction on temperature sensor or the controller itself, please contact our service engineer without hesitation.

Note: During your operation, if the temperature is more than 10°C higher than your setpoint and still rising, please switch off the unit immediately and contact our service engineer.

External temperature sensor (Option)

S series hotplate has option external temperature sensor for monitoring of real sample temperature.

Please always switch off the hotplate before install the external temperature sensor.

After you successfully connect the external sensor, the real sample temperature will be displayed on the second line of screen.

External temperature sensor (Option)

S series hotplate has option external temperature sensor for monitoring of real sample temperature.

Please always switch off the hotplate before install the external temperature sensor.

After you successfully connect the external sensor, the real sample temperature will be displayed on the second line of screen.

Preventive Maintenance

Pay attention to surface of EH and EG series hotplate, especially the corrosion-resistant model.

Keeping the surface clean and check the surface periodically.

Troubleshooting

The colour of surface coating changed

If the colour becomes dark. The reason is that high temperature condition makes the coating crystallized and reorganized. This is not affecting the usage. And, if the colour becomes white. The reason is that the super high temperature condition makes the pigment of coating decomposed. This is not affecting the usage. (Notice: please use in the safe working temperature range.)

The coating desquamated

The surface coating of EH20 series products couldn't be scratched. If it is scratched, the material will be corrupted, and the corrosion-resistant coating will be scaling off.

The display temperature is jumping

Firstly, please check whether the ground wire of power supply is well connected or not. If it is well connected, please turn on the power supply after turning off a minute. If it is still abnormal, please check around whether there are strong interference sources or not.

Declaration of Conformity

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**EU/UE
DICHIARAZIONE DI CONFORMITÀ
DECLARATION OF CONFORMITY
DÉCLARATION DE CONFORMITÉ
KOFOMITÄTSEKTLÄRUNG
DECLARACIÓN DE CONFORMIDAD**



Noi
We
Nous
Wir
Nosotros

LabTech s.r.l.

(nome del produttore) (manufacturer's name) (nom du fournisseur) (Name des Anbieters) (Nombre del productor)

Via Fatebenefratelli, 1/5 24010 SORISOLE (BG) – ITALY

(indirizzo) (address) (adresse) (Anschrift) (Dirección)

dichiaro sotto la nostra unica responsabilità che il prodotto
declare under our sole responsibility that the product/system
déclarons sous notre seule responsabilité que le produit/système
erklären in alleiniger Verantwortung, dass das Produkt/System
declaramos bajo nuestra exclusiva responsabilidad que el producto/sistema

HOTPLATES STIRRERS

(modello) (model) (modèle) (Modell) (modelo)

al quale questa dichiarazione fa riferimento, è conforme con le seguenti norme
to which this declaration relates is in conformity with the following standards
auquel se réfère cette déclaration est conforme aux normes
auf das sich diese Erklärung bezieht, mit der/den folgenden Normen
el modelo al que se refiere esta declaración, es conforme a las siguientes reglas

EN 61010-1:2010 and EN 61326-1:2013

(titolo e/o numero e data) (title and/or number and date) (titre et/ou no et date) (Titel und/oder Nummer und Datum) (título y/o el número y la fecha)

Secondo le prescrizioni della(e) Direttiva(e):
Following the provisions of Directive(s):
conformément aux dispositions de(s) Directive(s):
Gemäß den Bestimmungen der Richtlinie(n) :
En conformidad con las especificaciones de las directivas:

2014/35/EC, 2014/30/EC and 2011/65/EC

(titolo e/o numero della direttiva) (title and/or number of directive) (titre et/ou no du directive) (Titel und/oder Nummer von Anweisung) (título y/o número de la Directiva)

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Mr. Diego Cortesi
General Manager
12/01/2018

Spare Parts List