

BTH 20

BLOCK TUBE HEATER

USER MANUAL



We recommend that you read the user manual before using the product, keep it during the use, and use the product in accordance with its intended use so that you can get the best efficiency throughout its life.

- Read the user manual before operating the product.
- Pay attention to the safety warnings.
- Store the user manual in an easy-to-reach place for later use.
- Read all other documents given with the product.

The below symbols are present in this user manual:



Life and property threatening situation



Important information



Warning against electric shock

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1 - PRODUCT GENERAL OVERVIEW

1.1 INTRODUCTION

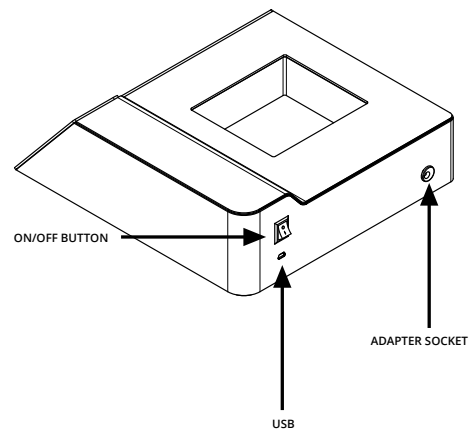
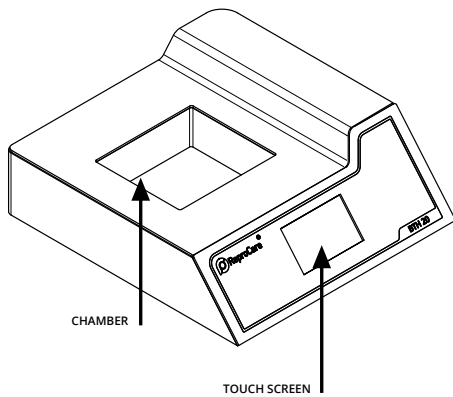
The BTH 20 Block Tube Heater transfers the temperature of the aluminum chamber to the screen thanks to the temperature sensor it contains. It ensures to keep the chamber surfaces stable at the temperature value set from the screen interface.



This device should not be used other than for its intended use or for any use recommended by the manufacturer.

1.2 BTH 20 PRODUCT OVERVIEW

BTH 20 is a surface heated temperature controller designed to keep the test tubes in your laboratory and other work areas at any set value between 25 - 48 °C, keeping the aluminum chamber temperature stable.



1.2.1 INTENDED USE AND PLACE

The purpose of use of the BTH 20 block tube heater device, which is the Reprocare Brand Surface Heating Devices series, is to keep the temperature of the test tubes containing sperm, eggs and similar biological materials such as embryos with few cells and blastocysts stable during the procedures in the IVF Laboratory, by means of aluminum blocks with appropriate properties while in the culture dishes.

It is not a product with a limited shelf life, it is not used with the patient. Suitable for use in IVF laboratories.



It is designed and manufactured for the use of doctors, technicians, nurses in IVF laboratories. It is not appropriate for people who do not have training to use products that require user training.

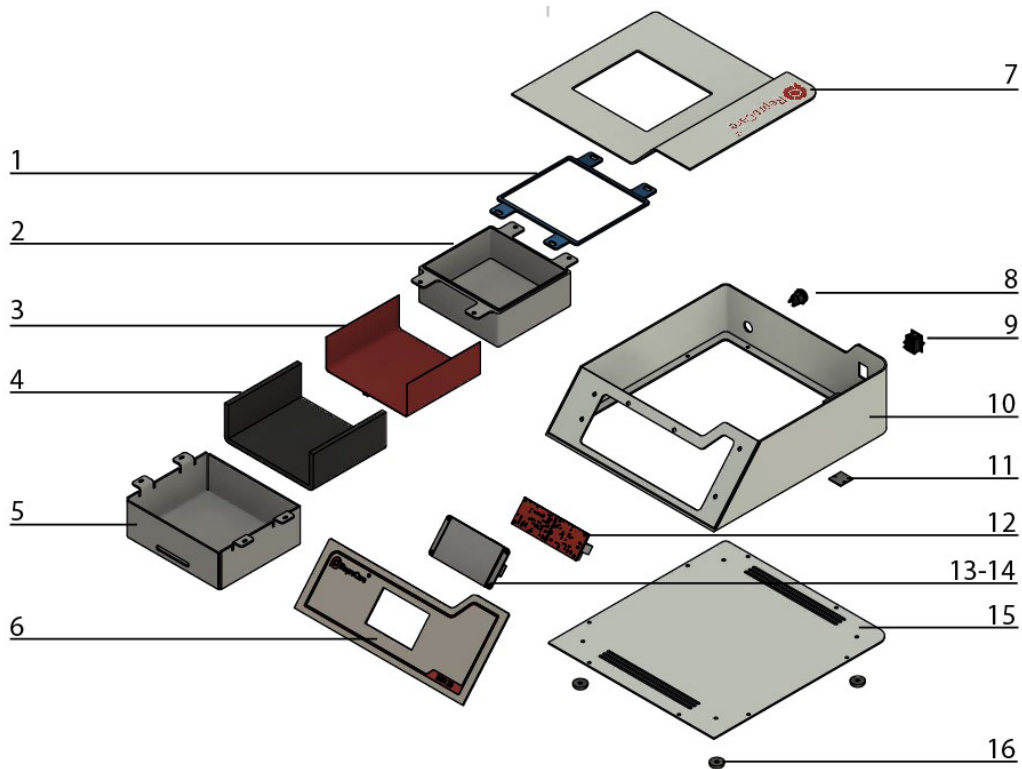
1.2.2 TEKNİK ÖZELLİKLER

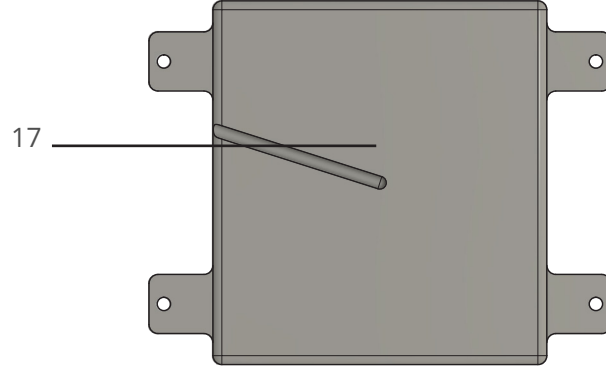
Brand	ReproCare
Model	BTH 20
Dimensions	280x260x88 mm
Color	White (RAL9016)
Material	Aluminium
Working Range	25 - 48 °C
Screen	3.2" Touchscreen
Weight	4 kg
Mains	220-240V AC - 50/60 Hz
Max Power	35 Watt
Optional Features	Automatic Start Mode, Timer
Workspace	115x102x40 mm



The environment where the device is located should be free of humidity and the temperature should be between 5° C and 30° C.

1.2.3 INSTALLATION PICTURE





ÖĞE NO.	PARÇA TANIMLARI	MİKTAR
1	Isıtıcı Hazne Contası	1
2	Isıtıcı Hazne	1
3	BTH 20 Rezistans	1
4	Yalıtım Bandı	1
5	Isıtıcı Hazne Koruma Sacı	1
6	Ekran Paneli	1
7	Gövcde Üst Kapama Sacı	1
8	Güç Soketi	1
9	Açma/Kapama Düğmesi	1
10	Ana Gövde	1
11	USB Kartı	1
12	BTH 20 Kontrol Kartı	1
13	BTH 20 Ekran	1
14	BTH 20 Ekran Contası	1
15	Alt Kapak	1
16	Kauçuk Ayak	4
17	PT100 Sensör	1

1.3 REVIEW OF PACKAGING

1.3.1 UNPACKING



In order to safely remove the ReproCare BTH 20 device from its box, it is necessary to remove it by grasping the device from the corners.

Remove the protective package. Keep the packing material and instruction manual for future use. To remove the device safely, take it out of the package by holding the corners of the device.

Check that the device accessories are fully present. Make sure that the device surface and screen are not damaged during transportation.

Accessories



19 Volt 90 Watt DC Adapter



Power Cable



Data Cable

1.3.2 DAMAGE CONTROL



Damaged box and contents may adversely affect the operation of the device. For this reason, we recommend that you first examine the box of the product you receive.

While the carrier company accepts the transportation, at the same time it accepts responsibility for the safety of the device.

For any damage that may occur during delivery, the carrier company is responsible.

Upon delivery, check for visible damage. In case of any damage, complete the necessary procedures with the carrier company and contact the manufacturer or your authorized distributor.

Keep the protective packaging of the product.

2 - POSITIONING AND INSTALLATION RECOMMENDATIONS

2.1 POSITIONING

The device working area is IVF laboratory conditions and does not require special environmental conditions other than the conditions in 1.2.2.

The device must be seated on a solid flat surface. This device is designed and manufactured to keep the surface temperature of laboratory tubes constant at any value set in the range of 25 - 48 °C. For effective use of the device, it should be positioned away from environments (autoclave, radiator, etc.) that may cause thermal source and electromagnetic interference. The device should be used in a place away from environments where there is an air flow to which the heater chamber will be directly exposed and where external factors that may disrupt temperature stability are active.

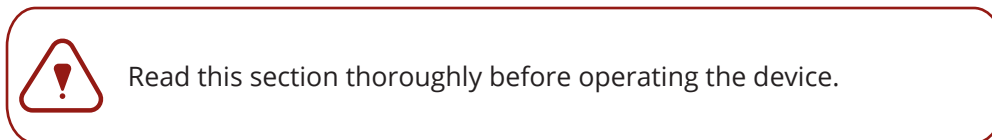
EMI distortion may cause incorrect measurements, stop operations, or other incorrect functions. The device complies with the applicable local and international standards for electromagnetic interference and is designed and manufactured to avoid causing problems with other equipment or being affected by other devices. To ensure that your device is not affected by unwanted interference during operation, avoid using the device near other equipment.

2.2 INSTALLATION

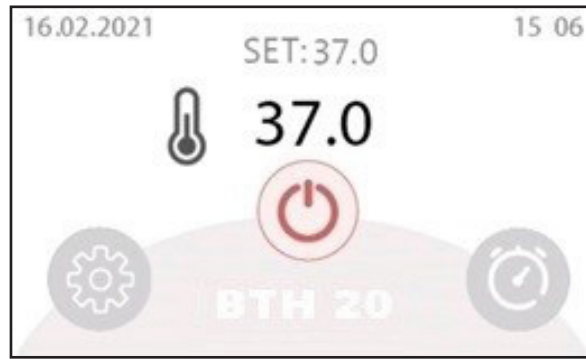
Installation and electrical connections must be made by technical service. The manufacturer company cannot be held responsible for any damages that may arise due to transactions made by unauthorized persons.

Power Supply: The power supply must be properly grounded. The supply voltage must match the voltage specified on the device within the limits of $\pm 10\%$. This device is designed for 50/60 Hz application. To power the device, connect the female end of the detachable power cord to the input on the device adapter, the male end to the power outlet, and the adapter pin to the device power input. Turn the device on by turning the on/off button to the I/ON position.

3 - OPERATING



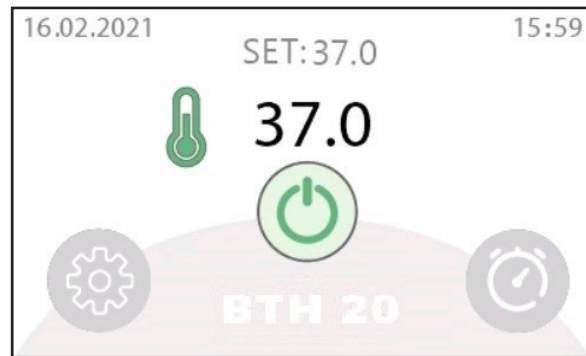
Turn the operating button to the I/ON position. Make sure the touchscreen receiving energy. All the controls except on/off button are located on the touch control screen. When the device is turned on, a main menu screen as below appears first. On this screen, the date/time, the set temperature value and the instantaneous surface temperature of the device chamber can be seen, as well as the heating resistance on/off button, the menu button and the timer button.



Home Screen Interface

You can make all the controls of the device via the touch screen. The menu of the device consists of the following components:

3.1 ON-OFF BUTTON



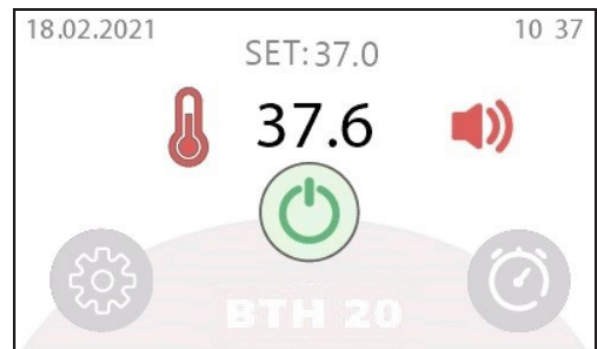
When the device is first turned on, the on / off icon used to turn the heating resistance on and off is red. When this icon is touched, the icon turns green and the heating resistance starts to heat up and reaches the set temperature value. When the same icon is touched again, the icon turns red and the heating resistance is turned off. 1 minute after the heating resistance is turned off, the screen saver mode becomes active. If the screen is touched again, the device will exit the screen saver mode.



The degree symbol on the screen turns yellow when the device starts to heat up. It turns green when the set temperature is reached and the temperature stabilizes. It turns red in alarm situations.

If the temperature value goes out of the alarm band due to an external factor while the device is working stably at the set value, a visual and audible warning occurs.

When the visual warning that appears on the screen is touched, the icon changes shape by turning to the closed speaker form, the audible warning ends, but the visual warning remains on the screen until the alarm condition passes.

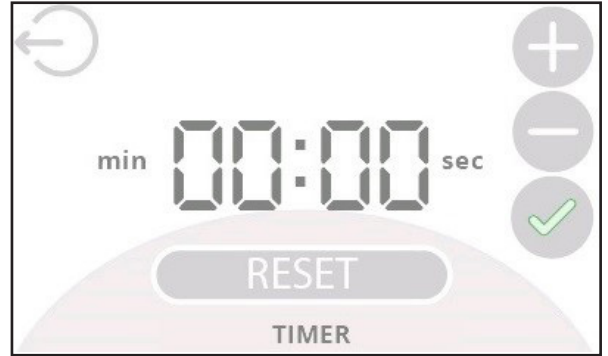


3.2 TIMER



When the clock icon on the main screen is touched, the icon becomes active, as in the next image, and the timer menu is reached.

In the BTH 20 device, the time is set as “minutes : seconds” from the timer menu. Whichever unit is desired to be adjusted, that digit is touched.



The color of the corresponding digit turns red. The red-colored digit, which is ready to be set, is set to the desired value using the plus and minus buttons.

In this way, after the time is set in minutes and seconds, the timer is started by touching the green tick icon.

The timer counts down to the set time. If the device is not in silent alarm mode when the time expires, it will give an audible warning. As the timer continues to count, another counter appears just below it and shows how much time has passed since the set time.



When the reset button is touched, the time counter is reset and, taking its initial form, it is ready to be set again. Even before the timer reaches the set time, it can be set again and again by pressing the reset button.

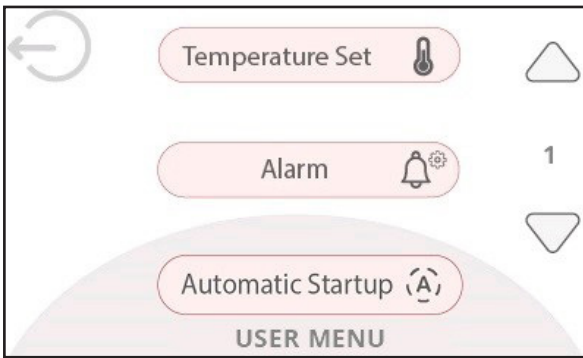
3.3 MENU



When the menu icon on the main screen is touched, the icon becomes active as in the adjacent image and the device menu is accessed.

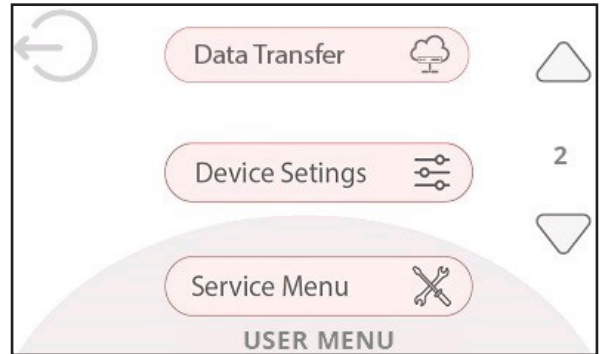


A return to the top menu is provided by the back button, shown in the image on the side, of the device menu pages.



The device menu consists of top menus containing 2 pages that can be switched using the up and down arrow icons.

These menus consist of Temperature Setting, Alarm, Auto Start, Data Transfer, Device Settings and Service Menu that can be accessed with a 4-digit password.



3.3.1 TEMPERATURE SETTING

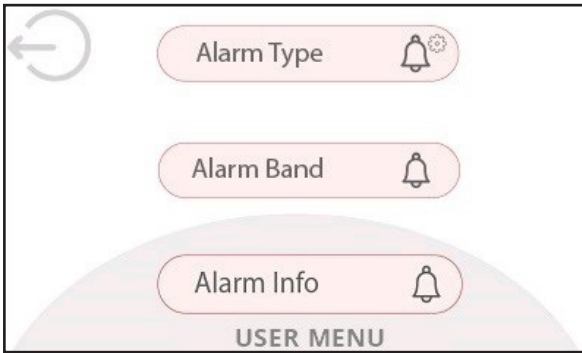


When the Temperature Setting upper menu button is touched, the temperature setting menu is displayed. The SET value at the top of the screen shows the temperature value at which the device was previously set. With the plus and minus buttons, it is brought to the desired temperature value by increasing or decreasing 0.1 °C as decimal in the range of 25 - 48 °C. After pressing the Confirm button, the device is set to the desired value. And the set value is also seen on the main screen. When the heating resistance on-off button on the main screen is activated, the chamber surface of the device starts to heat up to reach the set temperature value.



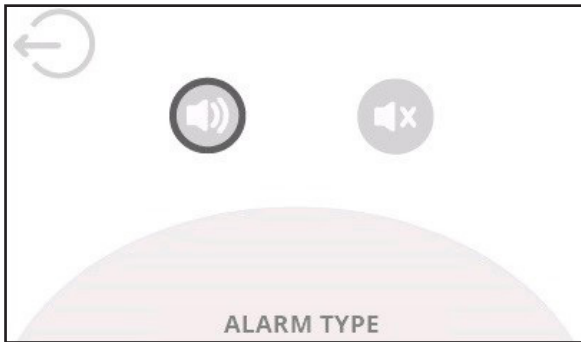
The factory temperature set value of the BTH 20 device is 37 °C.

3.3.2 ALARM



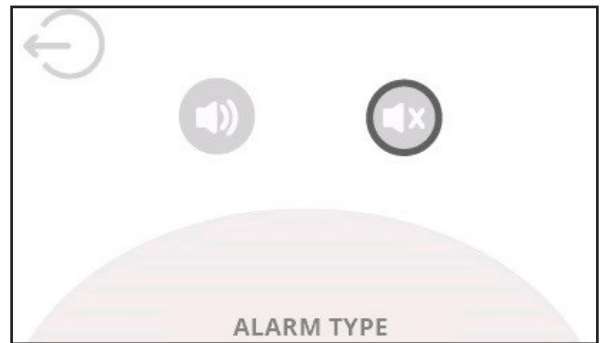
When the alarm top menu button is touched, alarm submenus including Alarm Type, Alarm Band and Alarm Information are accessed. When each button is touched, the relevant alarm submenu pages are accessed.

3.3.2.1 ALARM TYPE



BTH 20 block tube heater device gives an audible warning when the timer is full and in alarm situations. The audible alert feature can be turned off in the Alarm Type submenu.

Whichever of the device's audible or silent modes is selected, a circle appears around the relevant symbol, indicating that the relevant mode is active.



The default alarm setting of the BTH 20 is audible alarm mode.

3.3.2.2 ALARM BAND

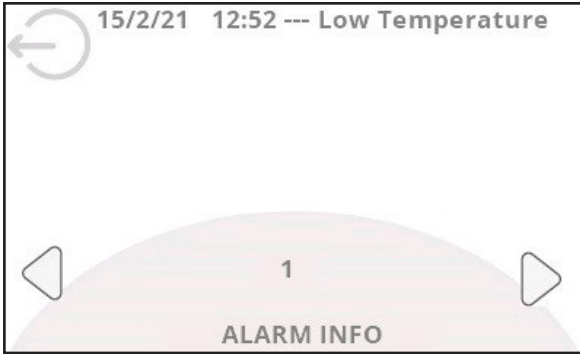


If the device deviates from the set value for some reason caused by external factors after reaching the set temperature value, it gives an audible and visual warning. The deviation value can be set from the Alarm Band submenu. By touching the plus and minus buttons, the deviation value is set in the range of 0.1 – 0.9 by increasing or decreasing 0.1 °C as decimal. This value determines the alarm band of the device. When the device is operating stably, it gives a warning in case of an increase or decrease in the set temperature value as much as the deviation value.



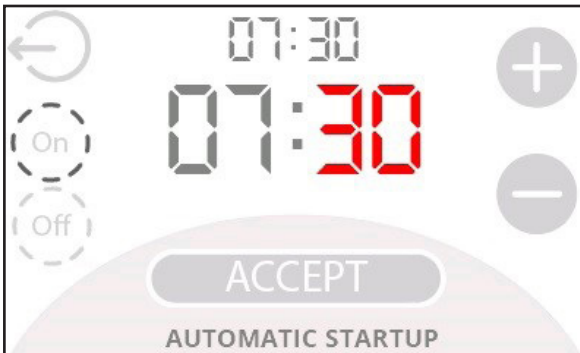
The default alarm band value of the device is 0.5 °C.

3.3.2.3 ALARM INFORMATION



Alarm states on the device are saved on page 2 in the " Alarm Info" submenu as date, time and alarm type. Transitions between pages are made using the right and left arrow buttons.

3.3.3 3 AUTOMATIC STARTUP

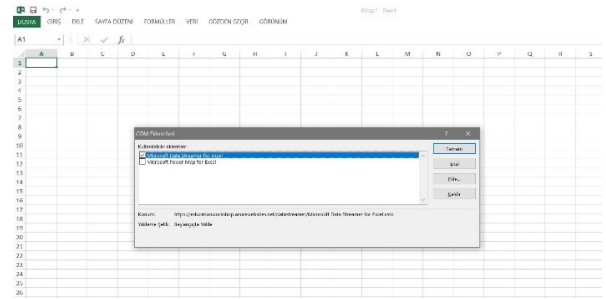
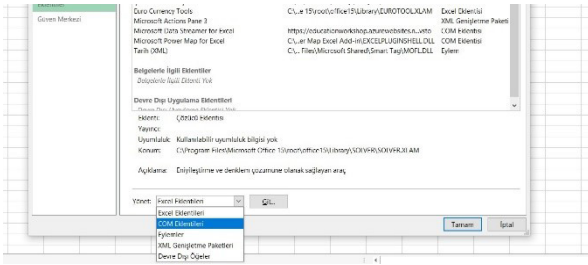


BTH 20 block tube heater device has automatic start-up feature. When the Auto Start top menu icon is touched, the auto start menu is displayed. Touch on the relevant digit in minutes and seconds and when its color turns red, it can be adjusted with the plus/minus buttons. With the "ON" and "OFF" buttons located in the left corner of the screen, this feature can be set to the active or passive position. In order to use the automatic operation feature, the desired working hour can be adjusted to different times over and over, and if the "On" button is activated once it is set, the heating resistance will automatically operate at the set time as long as the device is on power.

3.3.4 DATA TRANSFER

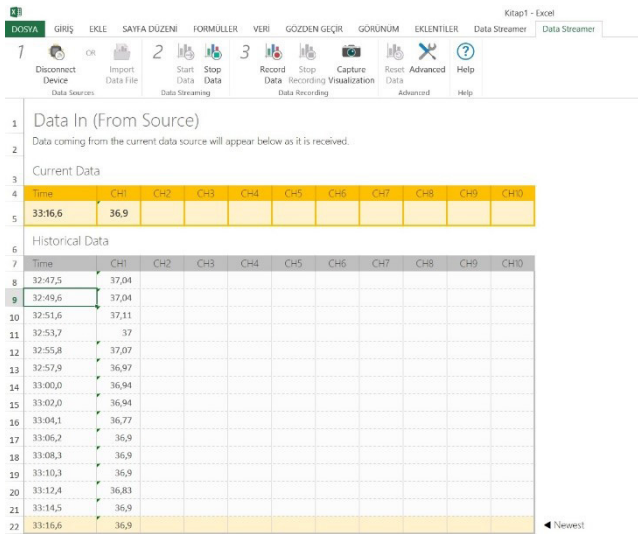


Instant temperature values can be transferred to a computer environment with the BTH 20 block tube heater device. When the "Data Transfer" top menu icon is touched, the corresponding menu appears on the screen. For "Data Transfer", firstly, a connection must be established between the device and the computer with a USB cable.



After the cable connection between the device and the computer is established, the Data Streamer plug-in must be activated by opening any excel file from the computer. To do this, select File > Options > Plugins > Com Plugins in the excel file and click on the Go tab.

In the window that opens, ExcelDataStreamAddIn is checked and the "OK" tab is clicked. In this way, the Data Streamer plugin of the excel file is activated. When the Connect a Device tab is clicked, a communication connection between the device and the computer is established.

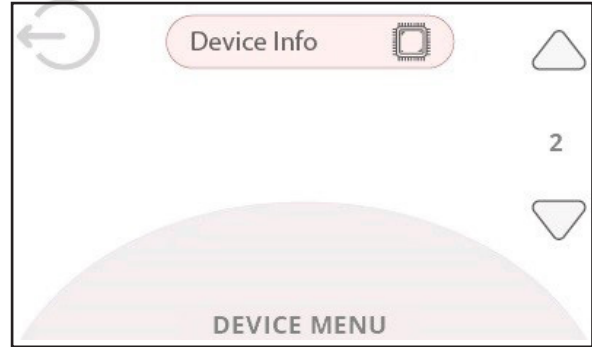
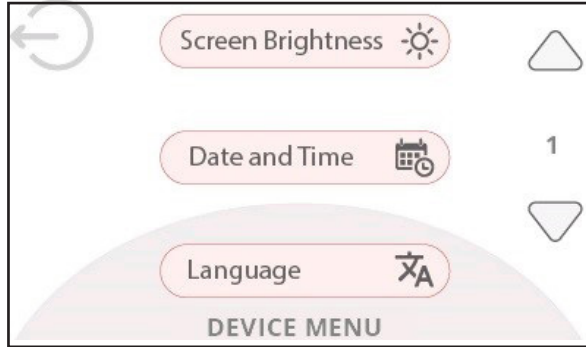


After the device starts the data transfer from the data transfer menu, the transfer starts when the "Start Data" tab is clicked in the Excel file. The transferred data can be saved in the computer environment using the "Record Data" tab. To stop the data transfer, the "Stop Data" tab is clicked and the connection with the "Disconnect Device" tab is terminated. On the device data transfer page, data transfer is also stopped and returned to the main menu with the back button.



It is not possible to return to the upper menu unless the data transfer is stopped.

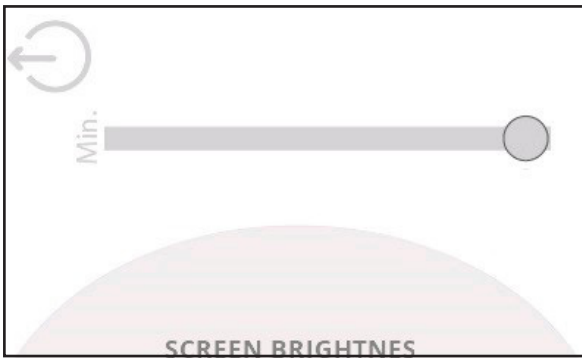
3.3.5 DEVICE SETTINGS



When the Device Settings upper menu button is touched, the Device Settings sub-menus including Screen Brightness, Date and Time, Language Option, Device Information are accessed. When each button is touched, the relevant submenu pages are accessed.

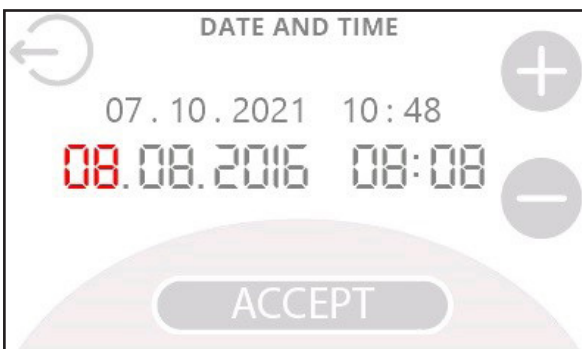
Device Settings consists of 2 pages, transitions between pages are provided with the up and down arrow buttons.

3.3.5.1 SCREEN BRIGHTNESS



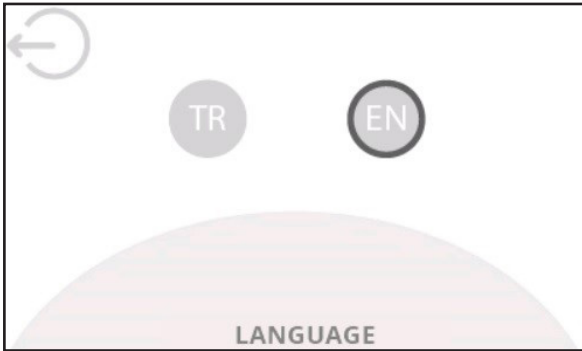
The brightness level of the touch screen can be adjusted from this submenu.

3.3.5.2 DATE TIME



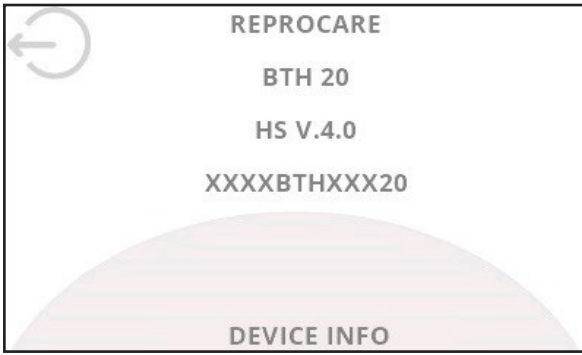
From the Date Time submenu, when each digit is touched and its color turns red, the date and time of the device are adjusted, by touching the plus and minus buttons. Then, when the confirm button is touched, the date and time are updated according to the set values.

3.3.5.3 LANGUAGE OPTION



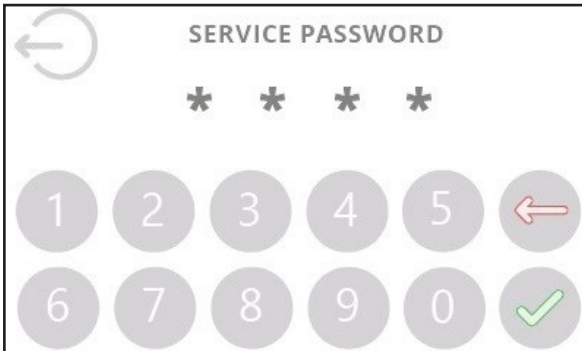
The device offers 2 language options, Turkish and English. If the device language is Turkish or English, a circle appears around the relevant symbol, indicating that the relevant language is active.

3.3.5.4 DEVICE INFORMATION



In the Device information submenu, the Brand / Model / Software Version and serial number data of the BTH 20 device are accessed.

3.3.6 SERVICE MENU



This menu can be entered within the authorization of the service personnel. By entering the 4-digit service password, the service menu with Factory Setting and Calibration submenus is accessed. The 4-digit service password is shared only with authorized service personnel.

3.3.6.1 FACTORY SETTINGS



When the "Yes" button is touched in the Factory Settings submenu under the Service menu, the device returns to its factory settings. If the device is reset to the factory settings, the last calibration will be undone, if the device is in silent operation mode, it will return to audible mode, the alarm band will be 0.5 °C, if the device language is English, it will be Turkish, alarm records will be deleted, the automatic start function will be turned off, the temperature set value will be 37 °C.

3.3.6.2 CALIBRATION



The device temperature can be calibrated repeatedly from the calibration submenu located under the service menu. In the calibration menu, the temperature value instantly measured by the device sensor is displayed on the upper part of the screen. The temperature at the center of the device chamber bottom surface is measured with an external surface measuring instrument. In this way, the actual temperature value is measured. After this process, when it is brought to the measured value with the help of the plus and minus buttons and the confirm button is touched, the device is calibrated according to the actual temperature value.



When measuring the actual value of the device, the exact center of the chamber bottom surface should be taken as reference.

4 - FAULT DEFINITIONS, GENERAL MAINTENANCE AND CLEANING

4.1 FAULT SITUATIONS AND WHAT TO DO

SITUATION	POSSIBLE REASON	CORRECTIVE ACTION
The device is not working.	There is no electricity coming to the device.	Check whether there is mains electricity, whether electricity is coming to the device.
	The power cord may be damaged or unplugged.	Make sure the adapter power connections are made correctly. Make sure the power cord and adapter cable are not damaged.
The device gives alarms very often.	The alarm band value might be too small.	Increase the alarm band value in accordance with your usage from the alarm band menu.
Device screen is not active.	Power connections may be faulty.	Make sure that the data cable between the display and the control card is connected. If the cable is plugged in, check the ports or the cable for damage.
	Screen saver mode might be active.	The screen protection mode becomes active 1 minute after the heater resistance on/off button on the main screen is turned to passive position. Check if the heating resistance is on.
The chamber surface does not heat up.	The temperature set value may not be at the desired value.	Make sure that the temperature set value is not lower than the ambient temperature.

SITUATION	POSSIBLE REASON	CORRECTIVE ACTION
Unwanted freezes on the LCD screen.	There may be cable damage to the LCD screen or software malfunctions	Check that the data cable connections between the display and the control card are correct and the cable is not damaged. Contact your technical service in case of software malfunction.
There is too much difference between the device chamber surface temperature and the temperature value shown on the screen.	The device may not be calibrated.	Make sure the device calibration is correct. Have your device calibrated by getting support from technical service representatives.
Automatic operation mode does not work correctly.	Date and time setting may not be up to date.	Make sure the date and time setting of your device is correct. If the date and time setting is not correct, update it from the device menu.



BTH 20 device works with electricity. Against the risk of electric shock, internal interventions on the device should be carried out only by authorized technical service employees.

4.2 GENERAL MAINTANCE



Before performing any maintenance or service operations on this device, make sure that the device is disconnected from the power supply.

Device cleaning should be done as a basic maintenance. The device surface should be periodically cleaned against ambient dust and dirt accumulation. In addition to periodic cleaning maintenance of the device, it should be cleaned immediately against laboratory tube leaks after each use.

Calibration is important to get the maximum performance from the device. In order to keep the device performance at the highest level, the device must be calibrated by the technical service officer once a year.

4.3 CLEANING



Cleaners with a corrosive effect (scratching, abrasive, etc.) should not be used on the surface of the device. Gloves must be used when cleaning the device and changing the filter.

Make sure that the device does not have an electrical connection. Clean with a soft, clean and damp cloth. Make sure that there is no liquid or spray liquid passage inside the air ducts of the device. Do not use harsh detergents and solvents. After cleaning, wait for the moisture on the surface of the device to dry before starting to use it.

5 - DISPOSAL / DISTRUCTION



This symbol on the product or its packaging indicates that the product should not be treated as household waste. Instead, it should be handed over to the applicable collection point that recycles electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could result from incorrect waste treatment of this product.

Recycling materials will help conserve natural resources. For further information on recycling this product, please contact your local municipality, household waste disposal service or the company from which you purchased the product.

Disposal of the packaging of the product must be carried out in accordance with the waste instructions of the medical institution where the device is located.

6 - WARRANTY

Tekservis Co. Ltd. guarantees that the ReproCare BTH 20 Block Tube Heater device is flawless in materials and workmanship for a period of two years from the date of purchase, when used as specified in this user manual and under normal conditions of use.

This warranty does not cover:

1. In case of intervention to the device by people who are not authorized by Tekservis Co. Ltd.,
2. Damage caused by misuse of the device or due to user negligence,
3. Damage and failures during transportation after delivery and installation of the device to the customer,
4. Damages and malfunctions that may occur due to low or excess voltage, faulty electrical installation or the use of a voltage different from the voltage written on the label of the device,
5. Malfunctions and damages that may occur due to fire and lightning,
6. Usage other than the instructions given on the label and this user manual,
7. Damages arising from the procurement of the device from persons or groups other than authorized distributors,
8. Transport costs, telephone charges for shipping, receiving, maintenance.

Under this warranty, Tekservis Co. Ltd. will replace any error or faulty product on the ReproCare BTH 20 Block Tube Heater device. For this to happen, the following conditions are required;

- Return of ReproCare BTH 20 Block Tube Heater device itself or faulty part,
- Payment of transportation fee,
- Providing a document confirming the date of purchase of a ReproCare BTH 20 Block Tube Heater device.

In this case, the faulty product can be delivered to the authorized distributor or to Tekservis Co. Ltd. Quality Control Department at Hüseyin Rahmi Sokak No: 7/7 906680 Çankaya/Ankara/Turkey or to the authorized personnel who will perform the warranty maintenance as determined by the written permission from Tekservis Co. Ltd. Information about the authorized personnel who can perform the warranty check can be obtained by writing to the Consumer Relations Department of Tekservis Co. Ltd. at the address given above or by calling +90 (312) 440 70 91. After inspection, if it is determined that there is a defect in material or workmanship in the aforementioned BTH 20 Block Tube Heater and its accessories, it will be replaced by Tekservis Co. Ltd. by paying the shipping and postage costs.

Faulty ReproCare BTH 20 Block Tube Heater Appliance should only be intervened by the authorized distributor or Tekservis Co. Ltd. within the maintenance warranty period.

No change or payment is made for interventions made by unauthorized institutions or persons.

This warranty is invalid and void unless the following conditions are met:

1. ReproCare BTH 20 Block Tube Heater must be purchased from Tekservis Co. Ltd. or an authorized distributor,
2. The manufacturing serial number of the ReproCare BTH 20 Block Tube Heater must not be deleted or changed
3. The ReproCare BTH 20 Block Tube Heater should always be used in accordance with the instructions in the user manual.

Under this warranty, in the event of replacement of the device to correct any defect, such labor and parts are warranted for one year or during the original warranty period, whichever is longer.

ReproCare BTH 20 Block Tube Heater device has no warranty other than these articles. Tekservis Co. Ltd. does not assume additional responsibility or authorize anyone other than itself to assume additional responsibility. The limitation and invalidity of any part of this warranty should not affect the validity of the other parts. The service life of the device is 10 years.

7 - SAFETY INSTRUCTIONS

Dear user, we kindly request you to immediately notify your institution officials, Tekservis Co. Ltd. or our representative of any working problems you observe other than the ones specified in the user manual of BTH 20 that you are using after receiving user training. Tekservis Co. Ltd. will not be responsible for any damages that may arise due to use that is not in accordance with the instructions given below.

- Make sure that the mains voltage is suitable for the device.
- Have the grounding installation done by a licensed electrician.
- Do not cover the device with any object while it is running.
- Do not spray the device with flammable and refrigerant gases.
- Do not open the back cover while the device is running.
- Do not place heater devices near the device and its power cable.
- Make sure that you check that the power cord plug is not dirty, broken, ripped, and that there is no connection error in the device. In case of negligence, it may cause electric shock or damage to the product.
- Do not touch, operate or repair the device with wet hands. In case of neglect, it may cause electric shock or damage to the product.
- Do not operate the product if the power cord is faulty. Call technical service.
- Do not force the device by pulling the power cord. Any damage to the cable may cause electric shock.
- Keep the power cord away from heat sources.
- Do not place any objects on the power cord.
- If the device will not be used for a long time, disconnect the electricity from the mains.

- If the device gets wet in any way, contact the technical service.
- Prevent electrical parts from contacting water.
- If an unexpected sound, smoke and smell comes from the device, turn the device off from the mains and call technical service.
- Make sure that the device is disconnected from electricity during installation, maintenance, cleaning and repair operations.
- Always have the installation and repair work done by the technical service.
- Contact the technical service for cleaning the interior. Detergent should not be used as it causes corrosion and damage to the surface.
- The device may not give the expected performance when it is used with an unsuitable accessory or spare part other than its defined replaceable parts.
- Moving the device to another working area without cleaning and filter maintenance may cause cross-infection.
- The device screen may not respond appropriately for use with gloves. Please contact directly.
- Notify Tekservis Co. Ltd. or its distributor if the hang-up on screen transitions is more than 3 seconds.



Legal operating conditions must be complied with in the environments where the device is used.

8 - SYMBOLS



Catalog Number Symbol



Serial Number Symbol



Manufacturer: Indicates the medical device manufacturer.



Manufacture Date: Indicates the date the medical device was manufactured.



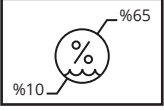
See Operating Instructions: Indicates that the user should look at the operating instructions.



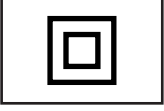
CE Marking: A product that has been CE Certified or certified and bears the CE mark indicates that it meets the basic health and safety requirements of the relevant EU New Approach Regulations.



Keep It Dry: Indicates that the medical device should be protected from moisture.



Humidity Limitation Symbol: Relative humidity 10-65% during storage and use.



Electrical Safety Class: Class I is a type of medical device in which the conduction parts are physically connected to ground and additional isolation is provided against electrical shocks.



Caution: Indicates that the user should refer to the instructions for use for important warning information such as warnings and precautions that cannot be presented on the medical device for many reasons.



IP Code (International Protection Code)

1st Digit: Protection against solid objects, meaning of "2": Protection against solid objects 12,5 mm in diameter

2nd Digit: protection against liquids, meaning of "0": Unprotected Device housing has no water protection feature.



Type B Applied Part, on medical device. To indicate type B applied part conforming to IEC 60601-1.



Electronic waste cannot be thrown into the trash.

9 - MANUFACTURER CONTACT INFORMATION

Tekservis Ltd. Şti.

Head Office:

Huseyin Rahmi Sokak No: 7/7 Cankaya/Ankara/TURKEY

Tel : +90 312 440 70 91

Fax : +90 312 440 70 90

Branch:

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Tel : +90 216 474 36 64

Fax : +90 216 474 01 71

www.tekservis.com

tekservis@tekservis.com

10 - MANUFACTURER DECLARATIONS

BTH 20 devices produced by Tekservis Co. Ltd. do not contain human blood and derivative tissues and tissues of animal origin. Our productions comply with the provisions of the RoHS directive.

Type declaration: MDD class I