

SAFETY CABINET

MGK

CLASS II A 2 TYPE



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Introduction

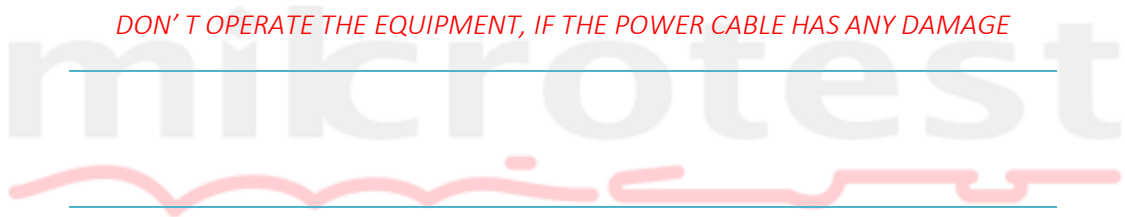
Dear End User,

We would like to thank you, because you prefer Mikrotest Products. Please read the operating manual, before you started to read our operating manual and please keep it to read in case of any need during the operation of the equipment.

Please keep the package of the equipment, until you are sure that equipment is working. This will help us to determine whether the equipment had any damage during the transportation. To inform Mikrotest about any damage due to transportation is under the responsibility of the user.

DON'T OPERATE THE DAMAGED EQUIPMENT

DON'T OPERATE THE EQUIPMENT, IF THE POWER CABLE HAS ANY DAMAGE



DON'T MOVE THE EQUIPMENT WHEN IT IS WORKING

Please get in touch with Mikrotest when you have any problem with the equipment.

Waranty is valid when the directives in this manual is applied and depends on that when you obey the directives in this manual.

Please read this document carefully, before you start the equipment.

Guaranty conditions are valid if the directives and warnings which are explained in this manual are applied. Otherwise all the unexpected and undesired conditions are under the end user responsibility.

Warranty Conditions

- 1- The warranty period starts from the date of delivery of the equipment and is two years.
- 2- The entire equipment, including all its parts, is under the warranty of our company..
- 3- 3- In case of malfunction of the device within the warranty period, the period of repair is added to the warranty period, the repair period of the device is at most thirty business days. This time, the device to the service station, in the absence of a service station, respectively; It starts from the date of notification to one of the vendors, dealers, agents, representatives, importers or manufacturers of the device. If the breakdown of the industrial equipment cannot be repaired within fifteen working days, the manufacturer or importer; Until the repair of the product is completed, it has to allocate another industrial device with similar features to the use of the consumer.
- 4- 4- The device; In the event of malfunctions due to material, workmanship or assembly errors within the warranty period, it will be repaired without any charge under the cost of the replacement part or any other name.
- 5- Despite the consumer's right to repair, the device;
 - In addition to the fact that the same malfunction occurs more than two times within a year, or different malfunctions occur more than four, or the sum of different malfunctions is more than six within the specified warranty period, as from the date of delivery to the consumer, as well as these malfunctions perpetuate the inability to benefit from the device,
 - Exceeding the maximum period required for its repair,
 - If the service station of the company is not available, if it is determined that the repair of the defect is not possible with the report to be prepared by one of the vendors, dealers, agents, representatives, importers or manufacturers, the consumer may request free replacement of the product, a refund or a discount in proportion to the defect.
- 6- Malfunctions caused by the use of the device contrary to the matters contained in the user manual are not covered by the warranty.
- 7- As the HEPA filters on the device are filled depending on the usage, the HEPA filter life is not covered by the warranty.
- 8- For problems that may arise regarding the warranty certificate, you can apply to the Ministry of Industry and Trade, General Directorate of Protection of Consumers and Competition.

Matters to be Considered by the Customer Regarding the Warranty

This guarantee given by our company is not valid if following conditions appears or exists

- 1- Malfunctions arising from the use of the device other than its normal use,
 - 2- Malfunctions arising from exposure to substances with physical or chemical effects
 - 3- Damages and failures that occur in the event that the matters in the user manual are not followed
 - 4- Damages due to low or excessive voltage, faulty installation or use at a voltage different from the voltage written on the device label.
 - 5- Damages that may occur during loading, unloading and transportation under responsibility,
 - 6- Disassembled or changed functions by people other than service officials for various reasons,
- Any damage and malfunction is not under our company responsibility, if the conditions above exists, arises or occurs.
- The useful life of the product declared by the Ministry of Industry and Trade in accordance with the Law No. 4077 on the Protection of the Consumer is 10 years.

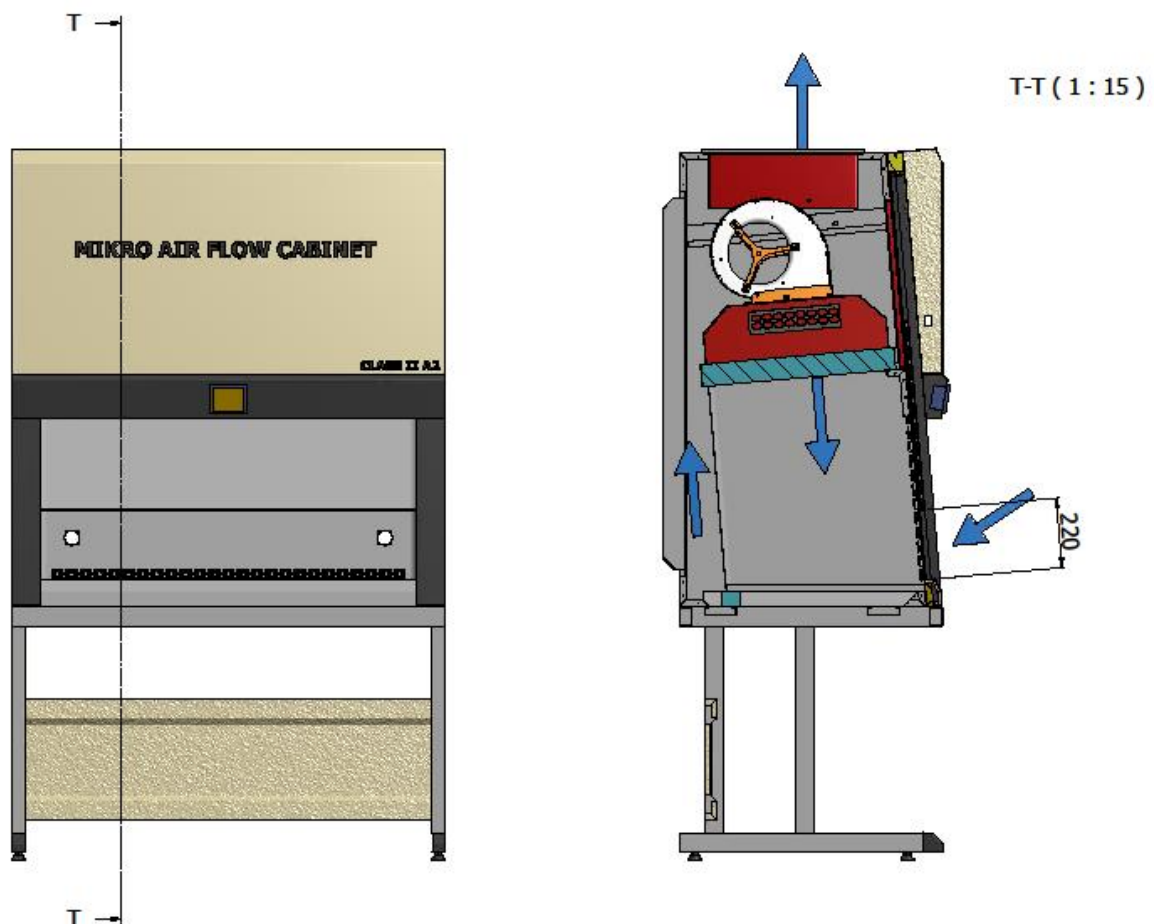
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The logo for 'mikrotest' features the brand name in a light grey, lowercase, sans-serif font. Below the text is a decorative red line that follows the contour of the letters, with a small red dot above the 'i'.

Definition of the Equipment

Biosafety cabinets are designed to regulate the air flow to protect working people and environment. It is possible to declare that safety cabinets are called as a wall which protects the operating people and environment against the danger of microorganisms which are carried by the air during the process.

Main advantages of these equipments are to be able to control the air flow and to eliminate the microorganism which are present in the air. Elimination is performed by HEPA filters

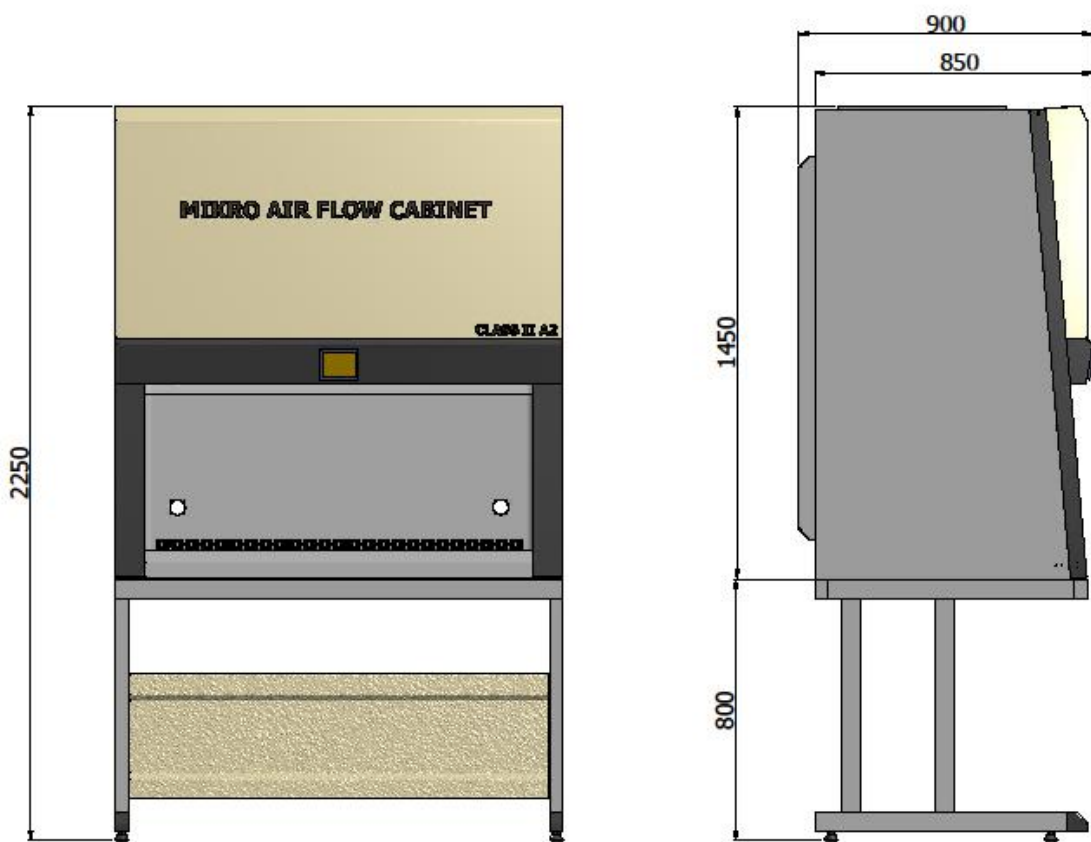


Equipment Dimenisons

MGK-90 / MGK-120 / MGK-150 / MGK-180 are manufactured in standart dimensions.

Height and depth is constant and widht is changed in different sizes in MGK biosafety cabinets and presented to end users

MGK-120:



Equipment Operation

Please be sure that the equipment is installed correctly, implemented the safety warnings and directives, before you start to use the equipment.

- 1 Turn on the equipment.
- 2 Opening screen appears few seconds.

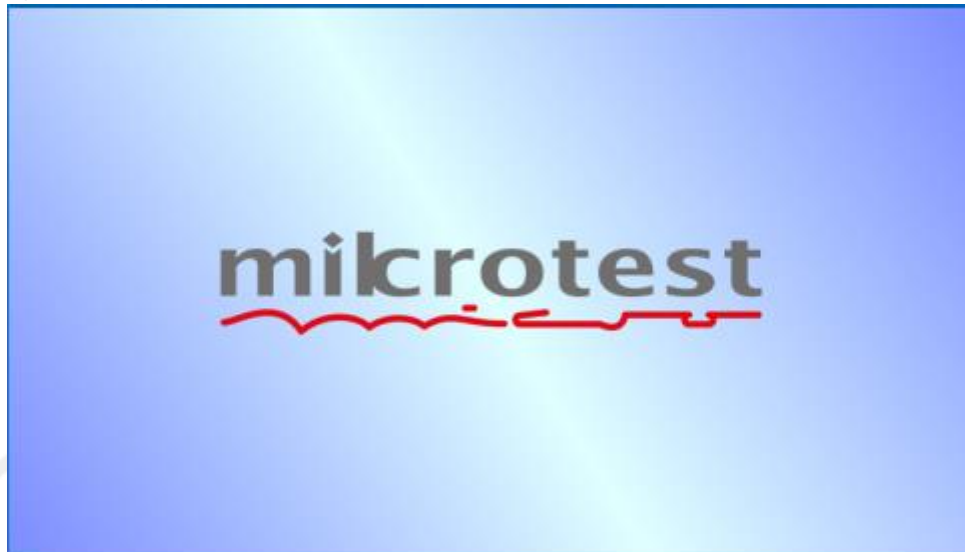


Figure 1 Opening Screen

- 3 Please wait until the following screen appears.

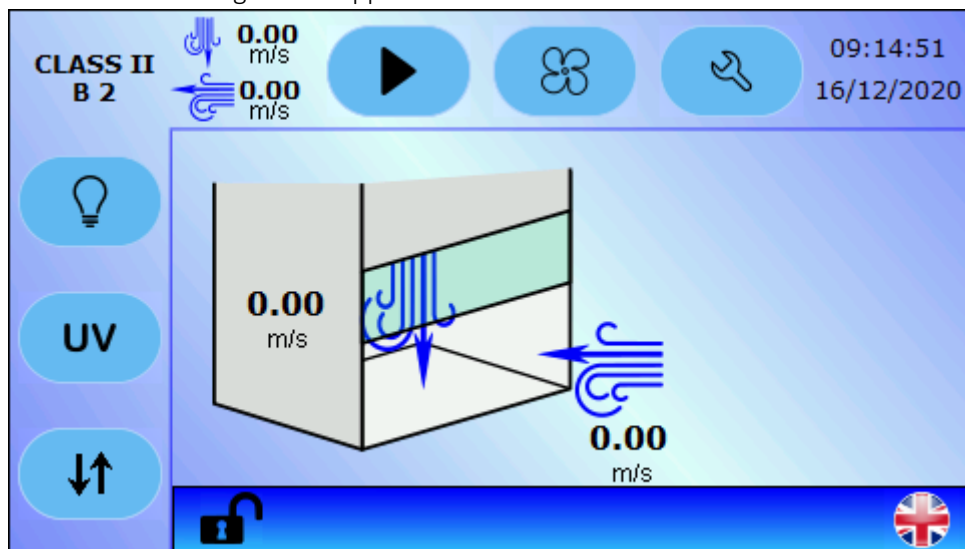


Figure 2- Main Menu

Quick Menu buttons are as here-below.

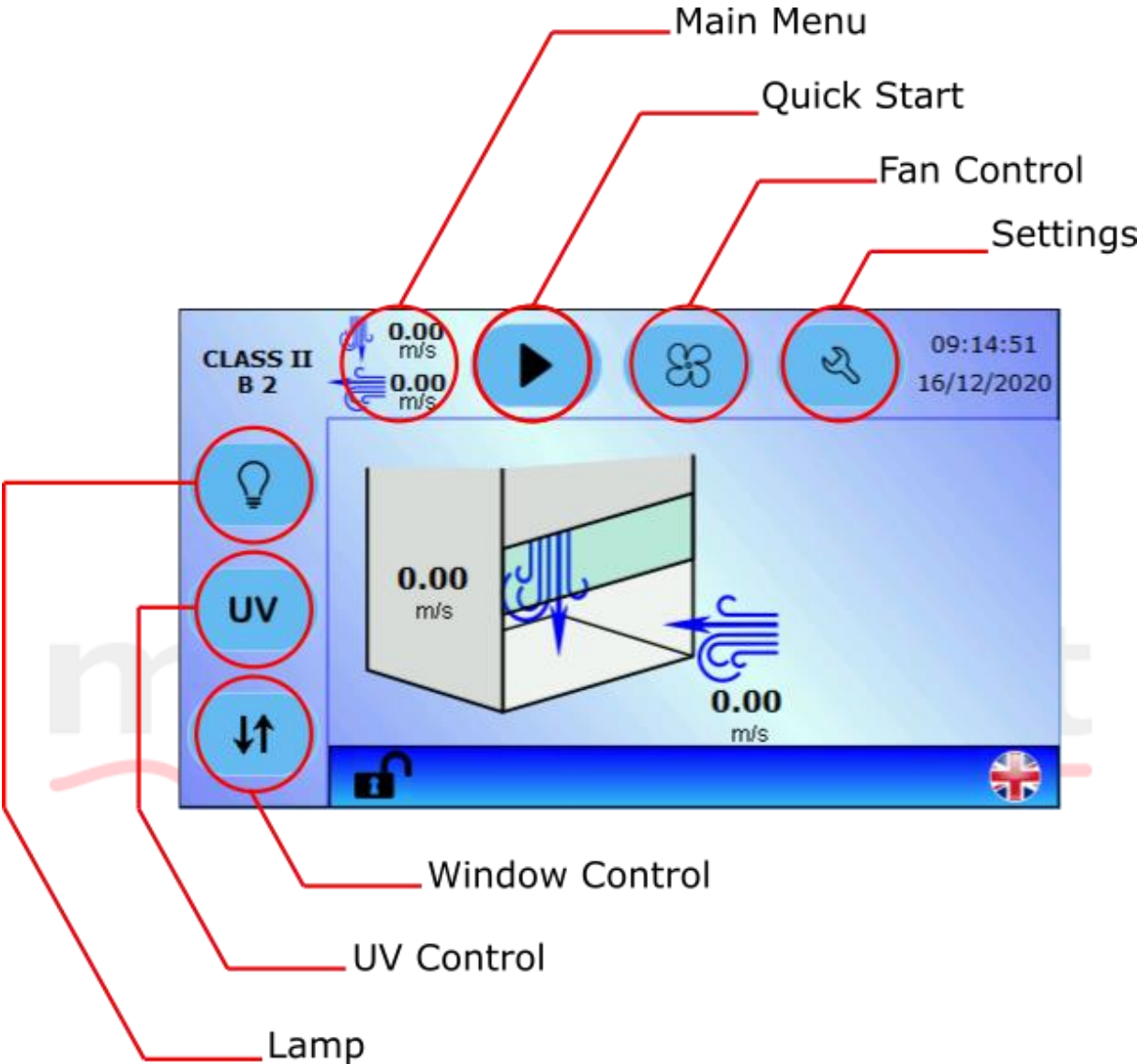


Figure 3- Quick Menu Buttons

Quick menu and main menu displays are as follows.

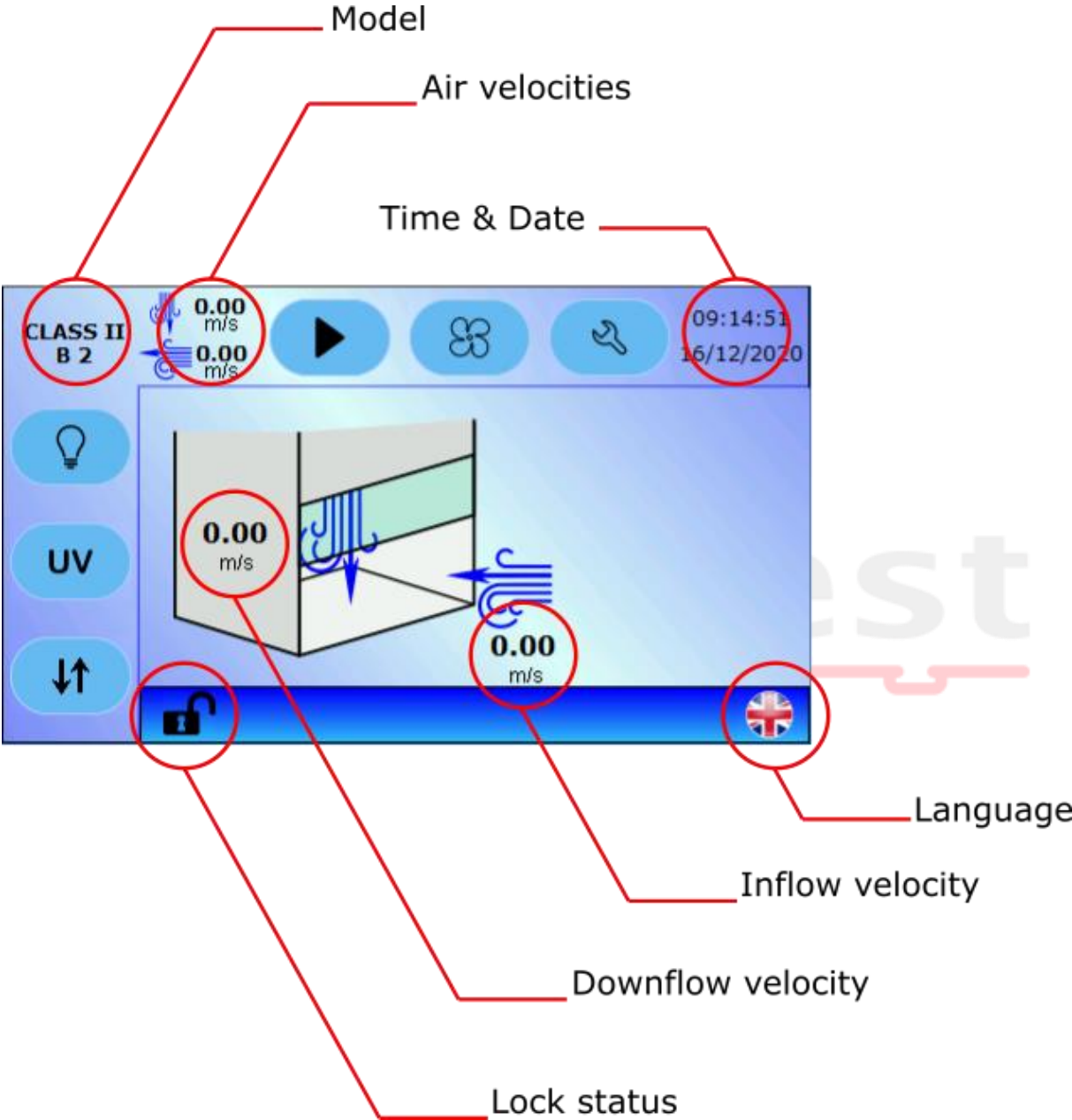


Figure 4- Quick menu and main menu screen

Lightening:

It is turned on/off with the button at quick menu

UV lamp is turned off automatically if you turn on the lightening during the UV lamp is working.

Lightening is not working and the symbol is like here-below.



Figure 5- Lightning is off

Aşağıdaki simge görünürken aydınlatma devrededir.



Şekil 6- Lightning is on

UV Control:

UV Control menu is started by pressing UV control button at the quick Menu

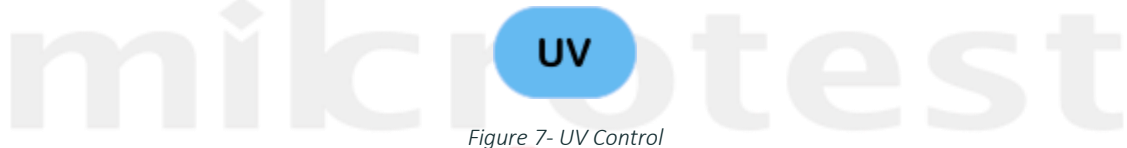


Figure 7- UV Control

UV control menu options are as follows



Figure 8- UV lamp is off



Figure 9- UV lamp is on



Figure 10 - UV control screen is open



Figure 11- UV lamp is off and automatic start is in charge



Figure 12- UV lamp is on and automatic stop is in charge

UV control screen is as follows.

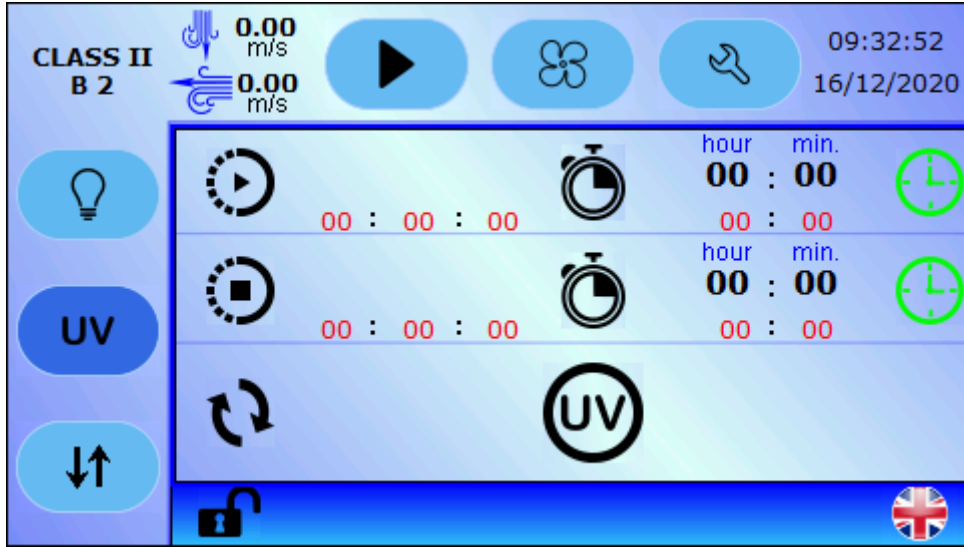


Figure 12- UV Control Page

Symbols at UV control screen is as follows.

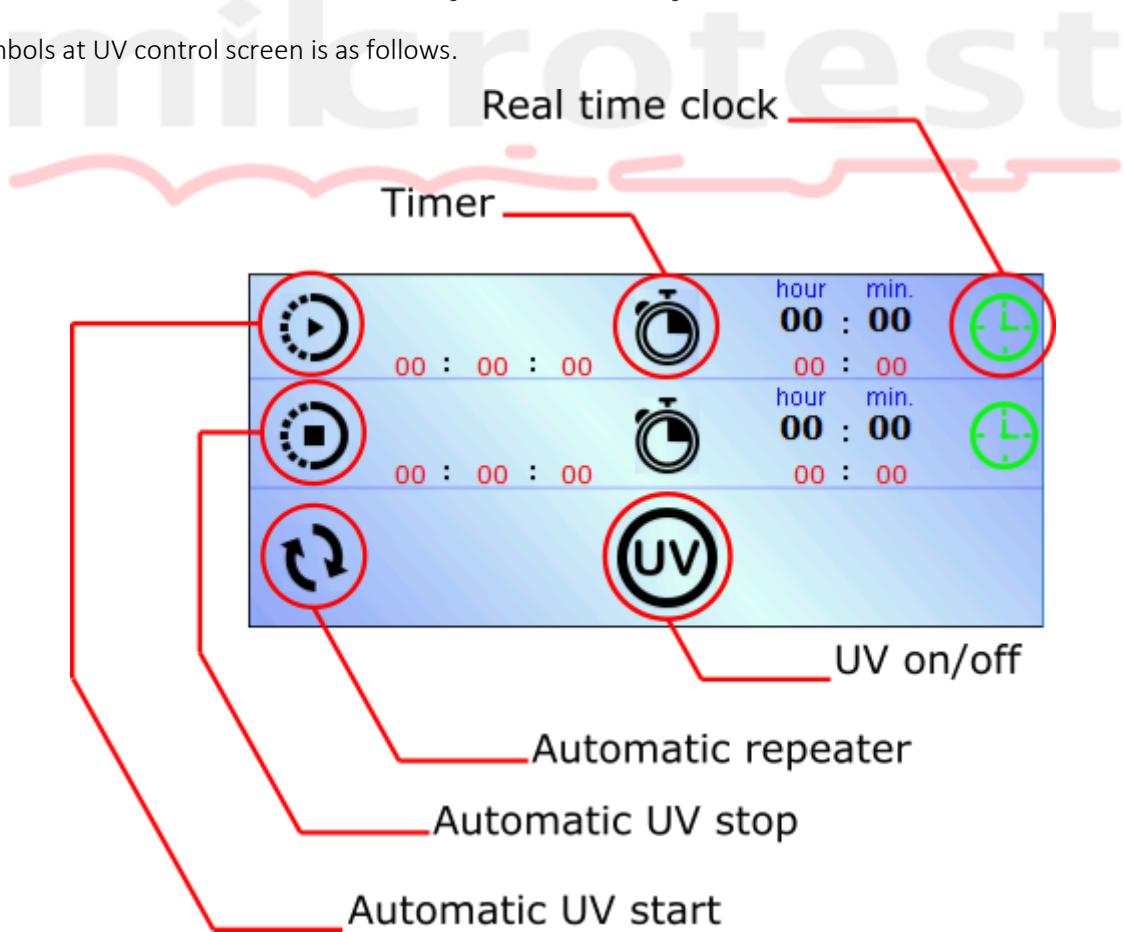


Figure 13- UV control screen definitions



Figure 14- Auto start is off



Figure 15- Auto start is on



Figure 16- Auto stop is off



Figure 17- Auto stop is on



Figure 18- Auto repeat is off



Figure 19- Auto repeat is on



Figure 20- Timer is off



Figure 21- Timer is on



Figure – Real time is off



Figure 23- Real time is on



Figure 24- UV Lamp is off



Figure 25- UV lamp is on

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UV Lamp Automatic Start:



Figure 26- UV lamp auto start

It is strat to UV lamp automatically at the set time.

Open the timer menu

Please set the retarding time to start the equipment automatically as here-below.

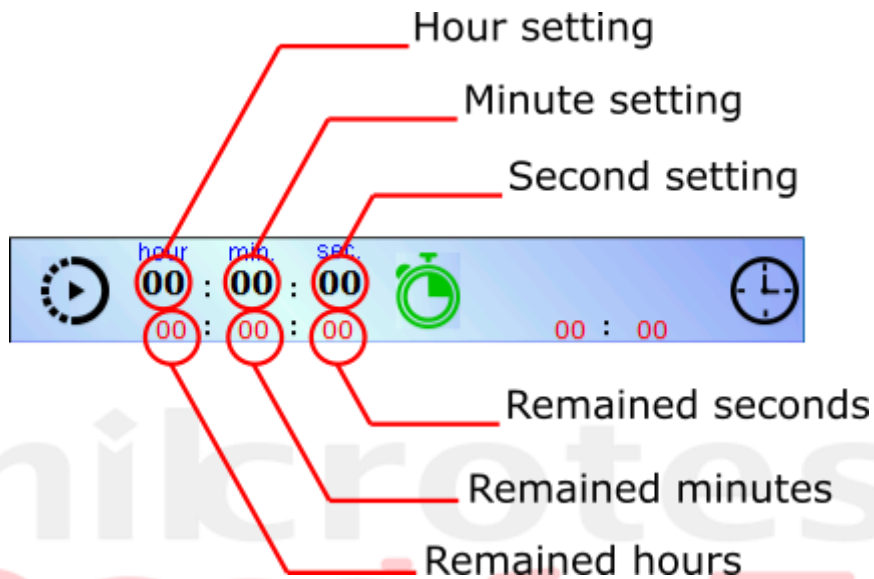


Figure 27- UV lamp timer

Please use the part depending on retarding time that you want.



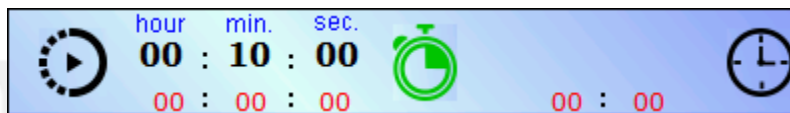
Figure 28- Minute adjustment

To set the time, specified screen appears depending on your selection.



Figure 29- Setting the minute

Please choose OK, after you set the time. Following screen appears.



Şekil 30- UV lamp auto-start 10 minutes

Please start the auto-start when you set the auto-start time.

You can follow the remaining time to auto-start at the screen.

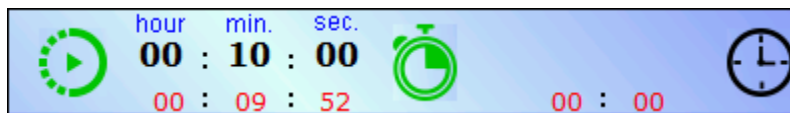


Figure 31- UV lamp remaining time

UV Lamp is turned on when the set time is on.

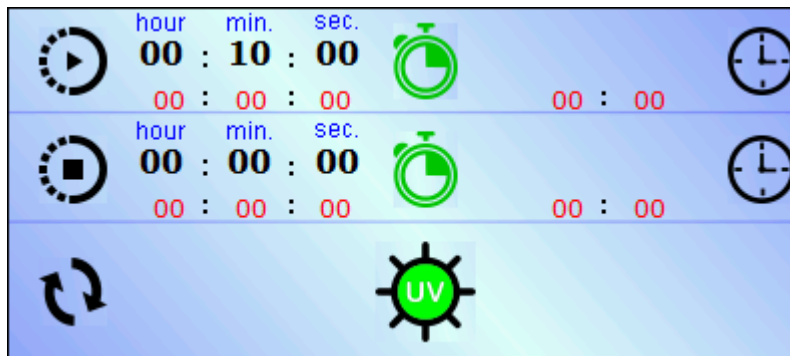


Figure 32- UV lamp auto start

Auto start is off (Figure 14), when UV lamp starts to work if Auto repeat is off as in Figure 18.

Auto start is kept on (Figure 15), after UV lamp starts to work if Auto repeat is on as in Figure 19.

UV lamp can be started automatically at a real time. Please open the real time screen as in Figure 23

And please set the real time setting according to auto-start real time.

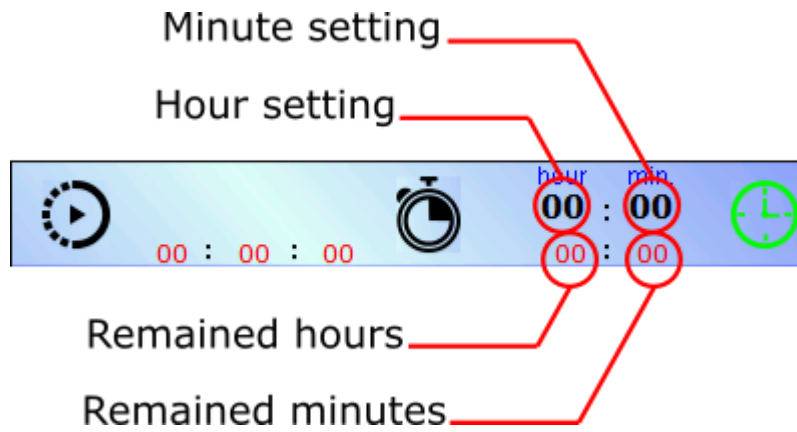


Figure 33- UV lamp real time setting

Please set the real time.

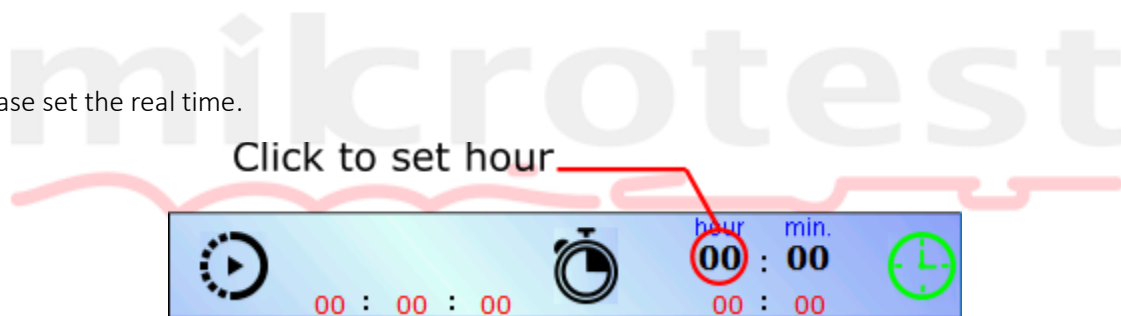


Figure 34- UV Hour setting

To set the real time, specified screen appears depending on your selection.

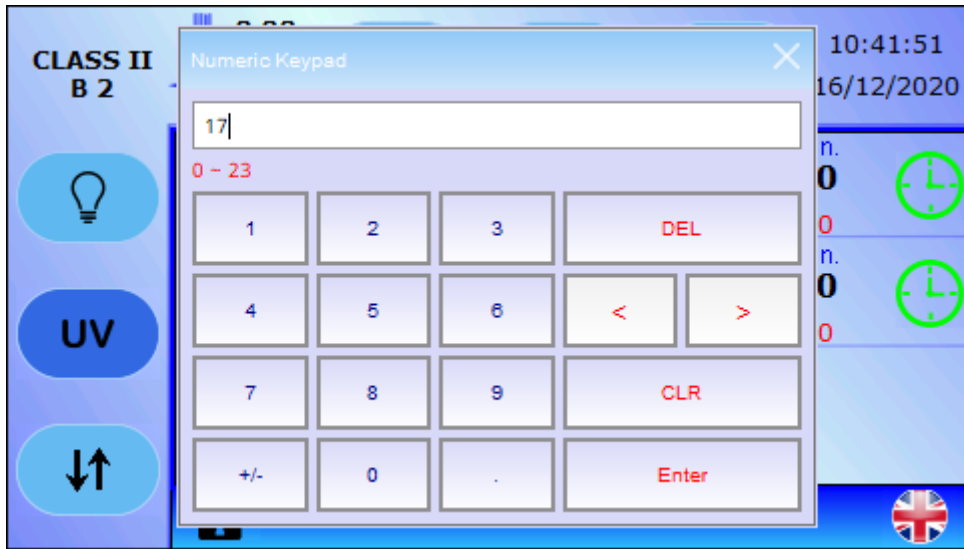


Figure 35- Hour setting value

Please press OK, when you set the real time value. Following screens appears at the display.



Figure 36- UV lamp auto start at 17:00

Please start the auto-start as it is in Figure-15

Remaining time can be followed as here-below.



Figure 37- UV lamp remaining time

UV lamp is turned on at the setting time. (Figure -38)

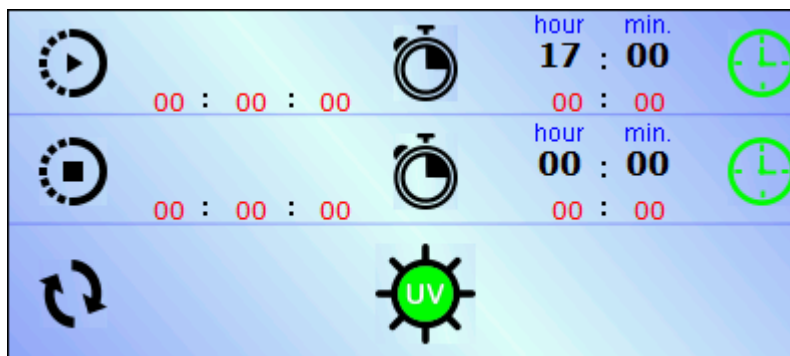


Figure 38- UV lamp auto start

Auto start is off (Figure 14) , after the UV lamp starts to work if auto repeat is off as shown in Figure 18.

Auto start is kept on(Figure 15) , after the UV lamp starts to work if auto repeat is off as shown in Figure 19.

UV Lamp Auto Stop :



Figure 39- UV lamp auto stop

UV lamp is stopped at the set time as it is shown in Figure-39

Please open the menu as it is shown in Figure-21 and set the retarding time to stop the equipment at the desired time.

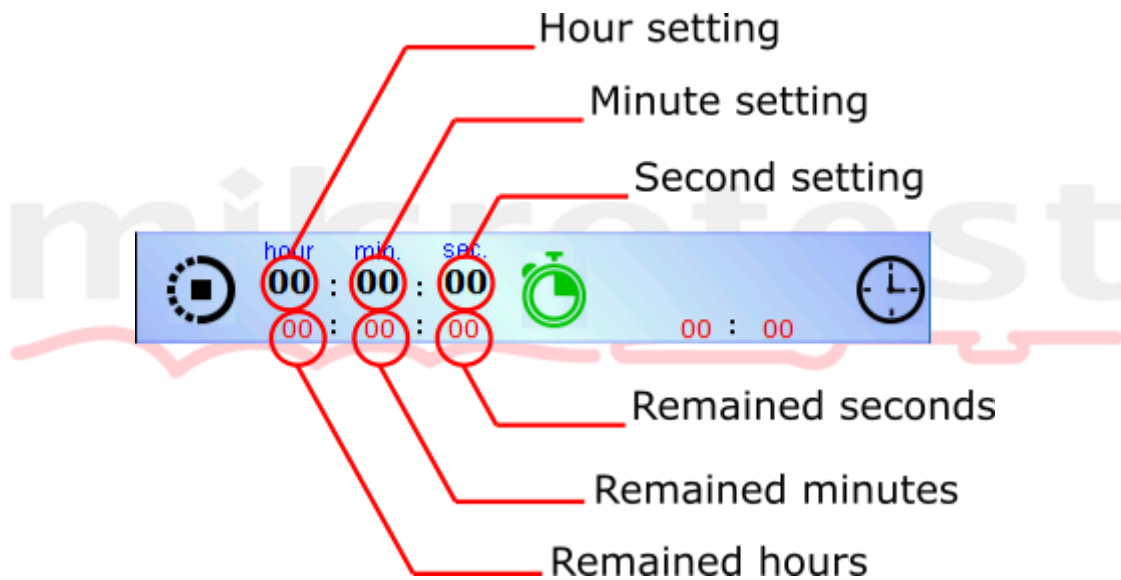


Figure 40- UV lamp timer

Set the desired retarding time.



Figure 41- Minute setting

Following screen appears to enter the value.

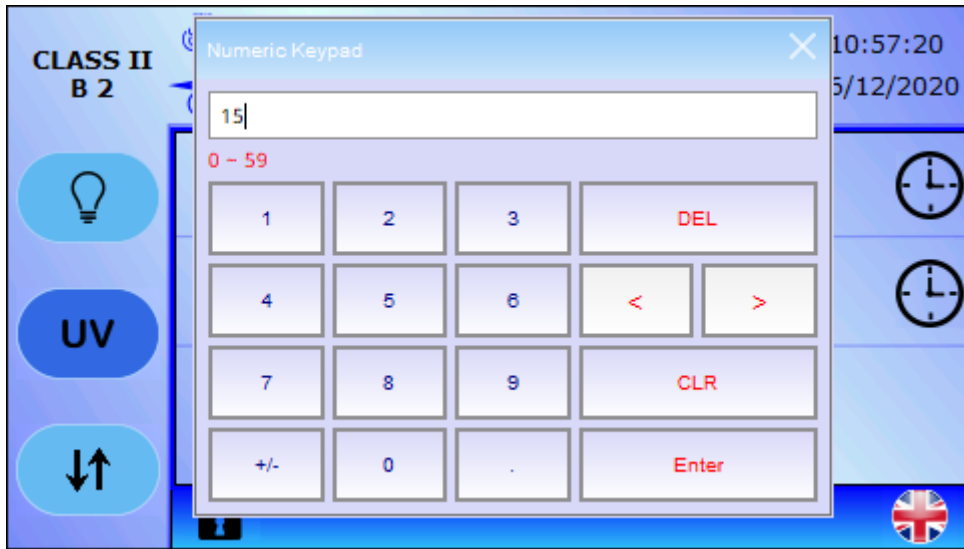


Figure 42- Minute setting

Please press OK when you set the time. Your value will appear at the screen.



Figure 43- UV lamp auto stop 15 minutes

Please start the auto stop as it is shown in Figure-17

You can follow the remaining time at the screen



Figure 44- UV lamp remaining time

UV Lamp is turned off at the set time.

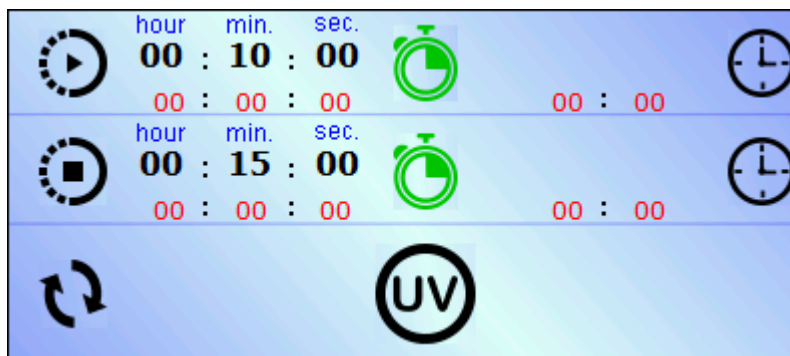


Figure 45- UV lamp auto-stop

Auto stop is off (Figure 16), after the UV lamp stops if auto repat is turned off (Figure 18)

Auto stop is kept on as “on” (Figure 17), after the UV lamp stops if auto repat is turned on (Figure 19)

Please open the real time screen as it is shown in Figure 23, to set the real time auto stop for UV lamp. You can set the real time to stop the UV lamp automatically at the desired real time.

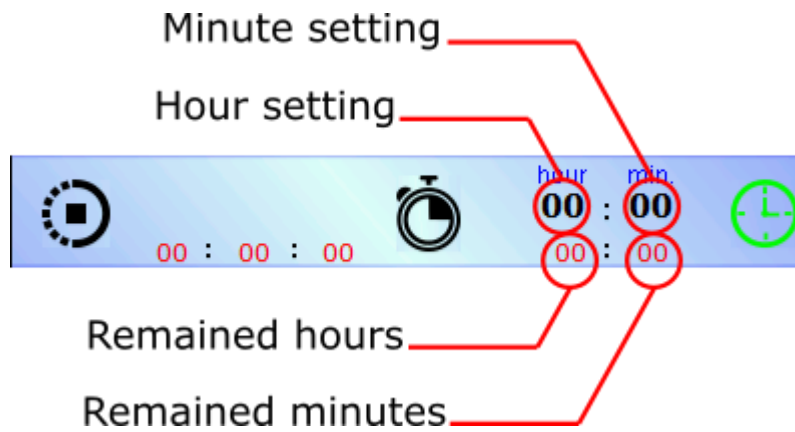


Figure 46- UV lamp real time setting

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Please select the real time value to stop the UV Lamp automatically.

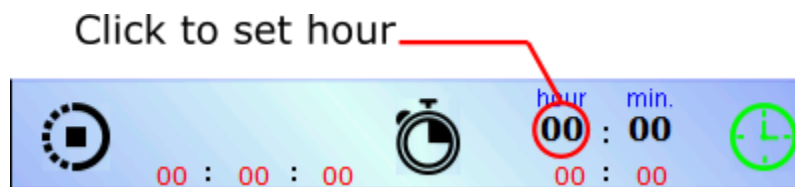


Figure 47- Hour setting

Following screen appears to enter the value.



Figure 48- Hour Setting Screen

Please press OK when you set the real time. Following screen will appear at the display.



Figure 49- UV Lamp auto stop at 18:00

Please start the auto-stop as it is shown in Figure-17

Remaining time can be followed at the screen



Figure 50- Remainin time to stop UV lamp

UV lamp is stopped at the real set time as it is shon in Figure-51.

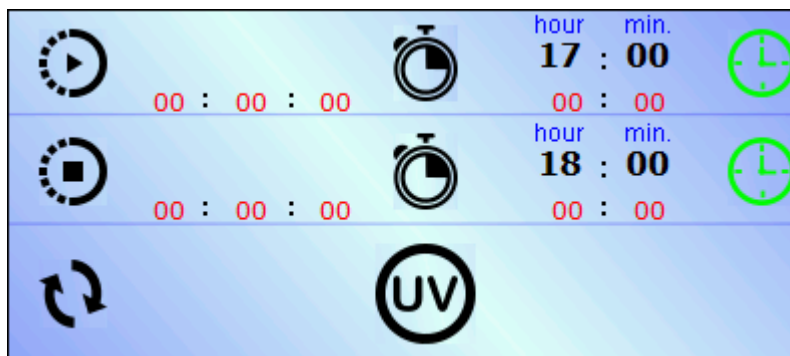


Figure 51- UV lamp auto-stop

Auto-stop is off (Figure-16), after the UV lamp stops if auto repeat is off (Figure-18)

Auto-stop is kept on "on" (Figure-17), after the UV lamp stops if auto repeat is on (Figure-19)

UV Lamp - Information:

*Don't look at UV Lamp with naked eye directly, if the UV Lamp is turn on.
Otherwise you may have damage on your eyes.*

It is not advised to look at UV lamp directly even you wear safety glasses.

Glass door has to be closed before you turned on the UV lamp. You have a warning if you try to start on UV lamp when the glass door is open.

If you open the glass door, when UV Lamp is working than UV Lamp is turned off automatically and you have a warning.

Glass door has to be closed, if you turned on UV auto-start menu. Otherwise UV lamp does not start to work at the set time and you have warning.

Fan has to be turned off before UV lamp is turned on. You have warning if you want to start the UV lamp when fan is turned on.

You have warning if you want to start the fan when UV lamp is working. It is because UV lamp is turned on and glass door is closed as well. Fan has to be stopped (At the auto start set time) if you turned on the UV auto start. Otherwise you have warning and UV lamp does not start to work.

UV lamp performance decrease, when it is used. Using time of the UV lamp is registered in the memory and you have warning at the replacement time. Replacement is important for the suitable sterilization.

Glass Door Control:

Glass door can be controlled via quick menu (Figure-52)



Figure 52- Glass Door Control

Glass Door Control symbols are as follows



Figure 53- Glass door screen is open

Glass door control menu is as follows.

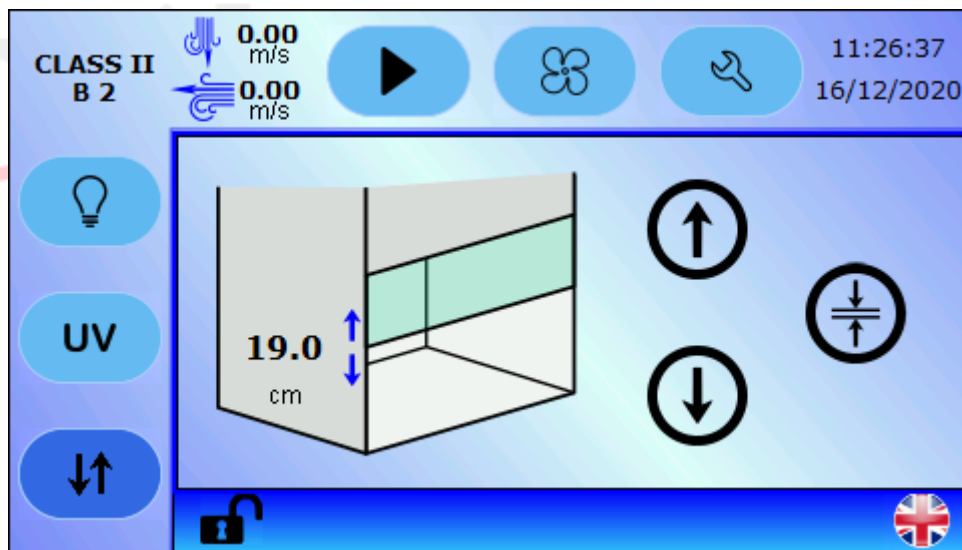


Figure 54- Glass door control menu

Definitions are as follows.

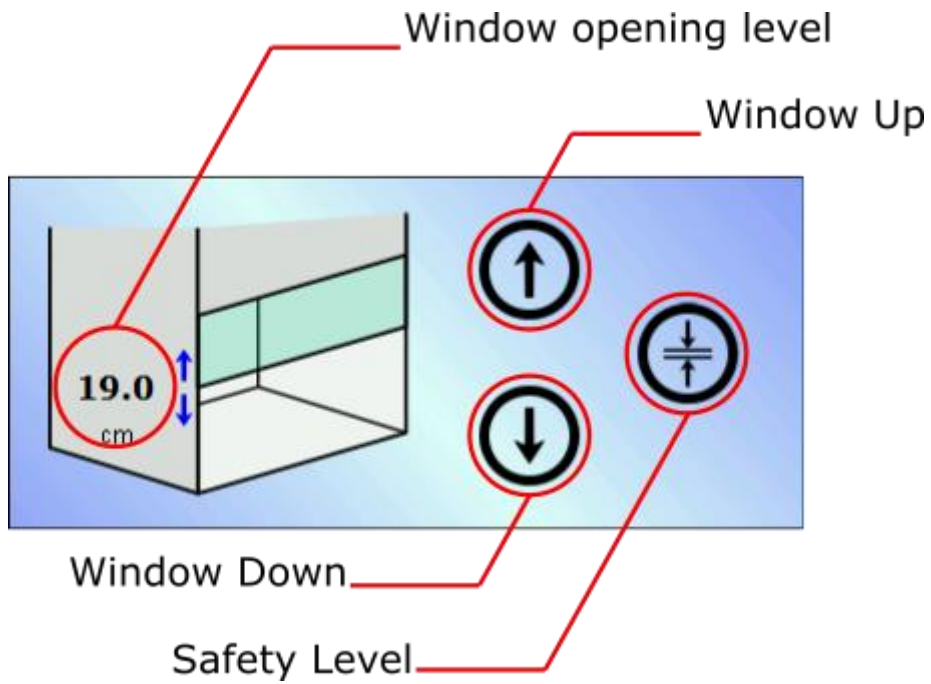


Figure 55- Glass door control menu definitions



Figure 56- Glass door does not work up direction.



Figure 57- Glass door works up direction.



Figure 58- Glass door does not work down direction.



Figure 59- Glass door works down direction.



Figure 60- Glass door level is not suitable



Figure 61- Glass door level is suitable

Mikrotest biosafety cabinets glass doors have electronic process control. This enables to adjust the glass opening in 1 mm. Level.

Please press the “ up “ button and keep on press. Please leave the button, when you reach to desired level. (Figure-57)

Please press the “ down “ button and keep on press. Please leave the button, when you reach to desired level. (Figure-59)

Please press the “ Safety Level “ button. Glass door will reach to level which is specified as safety level.

Glass door real level can be watched at the screen.

Glass Door Control Information :

Watch your hand when you close the glass door. Your hand may squeeze under the glass door!

Please don't close the glass door when the fan is working. Otherwise fan is stopped automatically and you have get warning.

Please don't open the glass door when UV lamp is working. Otherwise UV lamp is stopped and you get warning.

Fan Control:

Fan Control menu is open via quick menu (Figure-62)



Figure 62- Fan control

Symbols for fan control are as here below.



Figure 63- Fan is off



Figure 64- Fan stand-by mode



Figure 65- Fan is on



Figure 66- Fan control menu is open



Figure 67- Fan is off and auto start is on



Figure 68- Fan is on and auto-stop is on

Fan control screen is as follows.

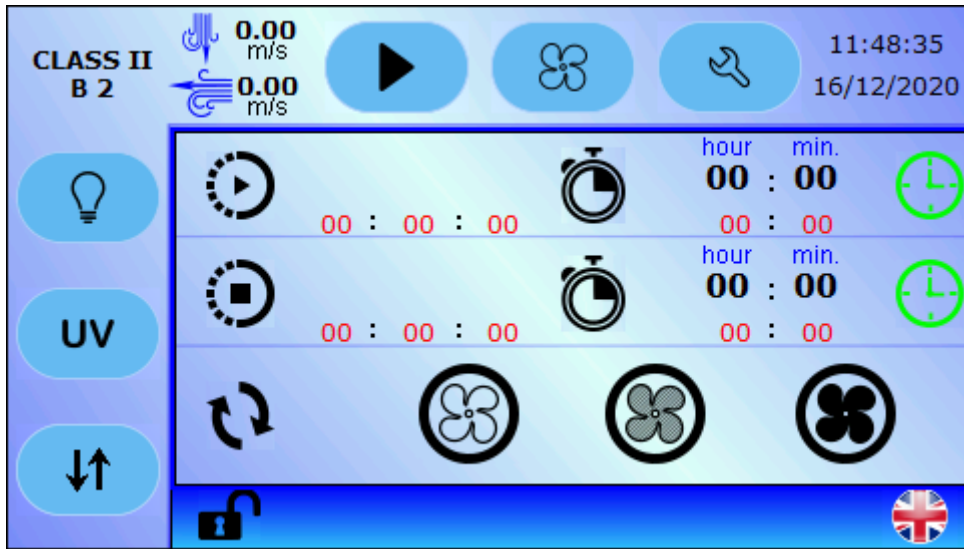


Figure 69- Fan control screen

Symbols at the fan control screen are as follows

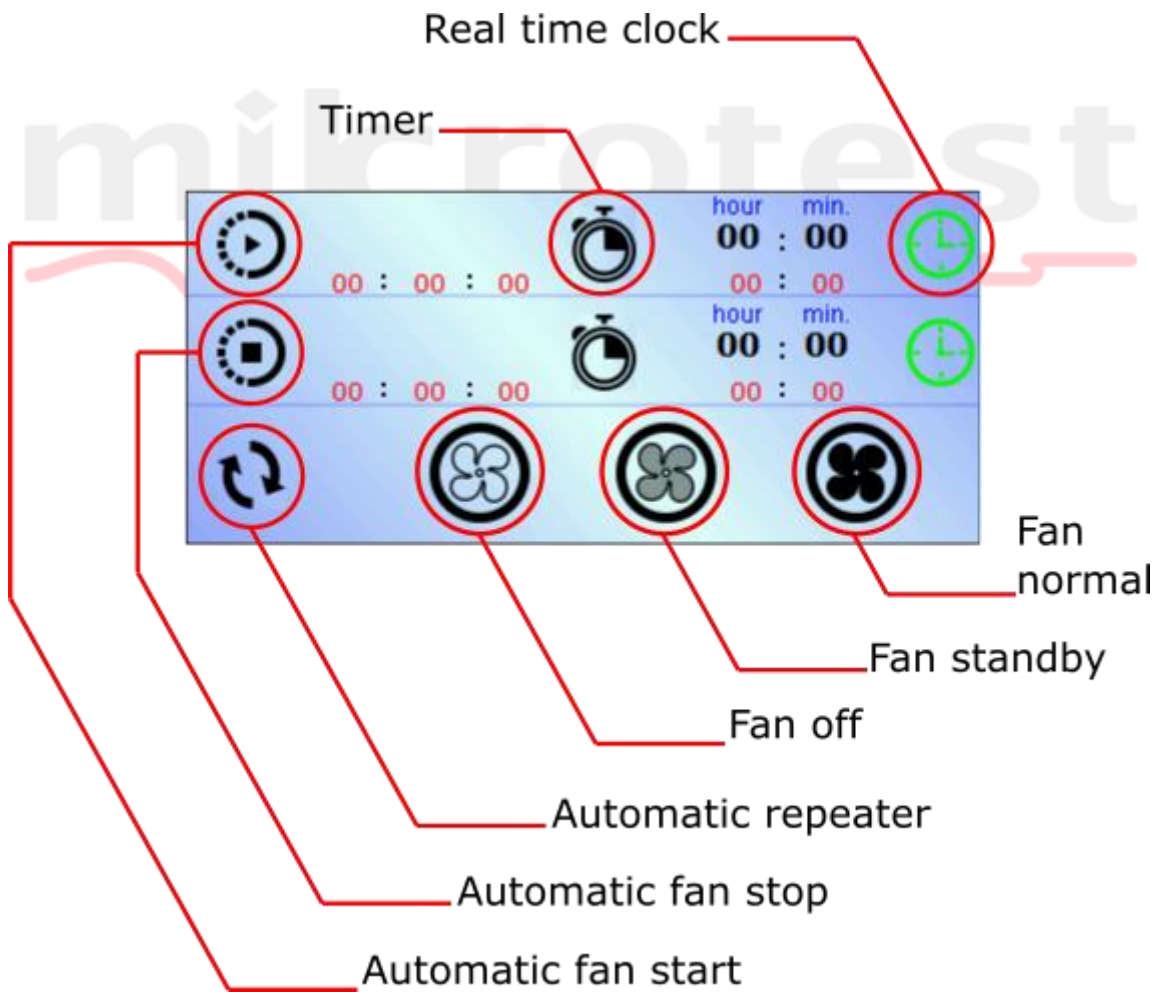


Figure 70- Fan control screen definitions



Figure 71- Auto start is off



Figure 72- Auto start is on



Figure 73- Auto stop is off



Figure 74- Auto stop is on



Figure 75- Auto repeat is off



Figure 76- Auto repeat is on



Figure 77- Timer is off



Figure 78- Timer is on



Figure 79- Real time hour off



Figure 80- Gerçek zaman saati açık



Figure 81- Fan stop



Figure 82- Fan stand-by mode is open

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Figure 83- Fan stand-by mode closed



Figure 84- Fan is open



Figure 85- Fan is closed

Fan Auto-Start :



Figure 86- Fan auto start

Fan can be started in a retarding time or at a real time. Figure-86

Timer is started for the retarding mode (Figure 87). Retarding time is set according to following explanations.

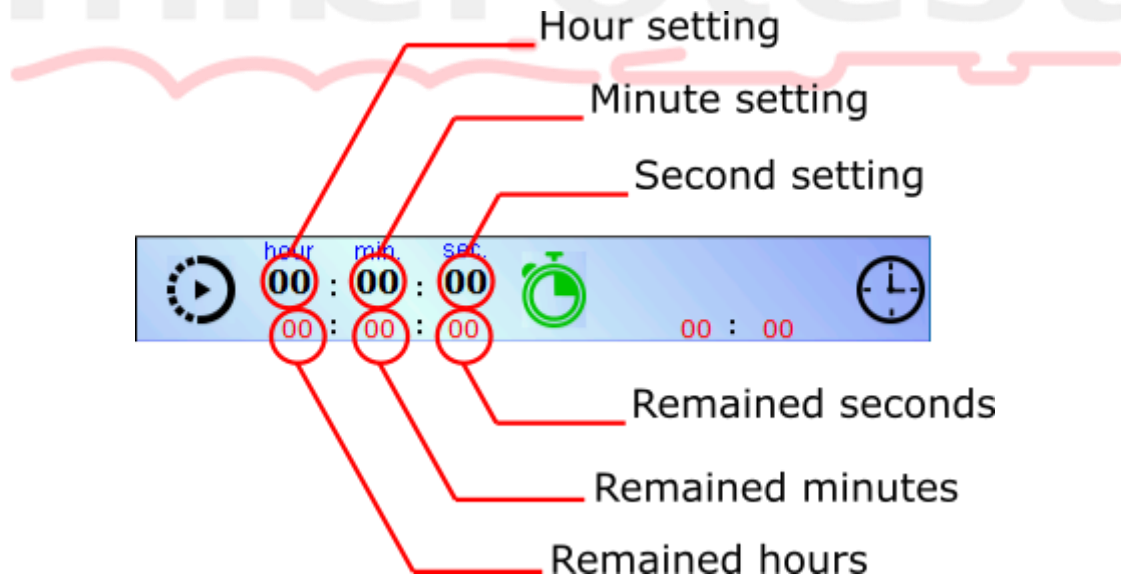


Figure 87- Fan timing adjustment

Auto start time can be entered at the following screen.



Figure 88- Dakika ayarı

Following screen appears to enter the value

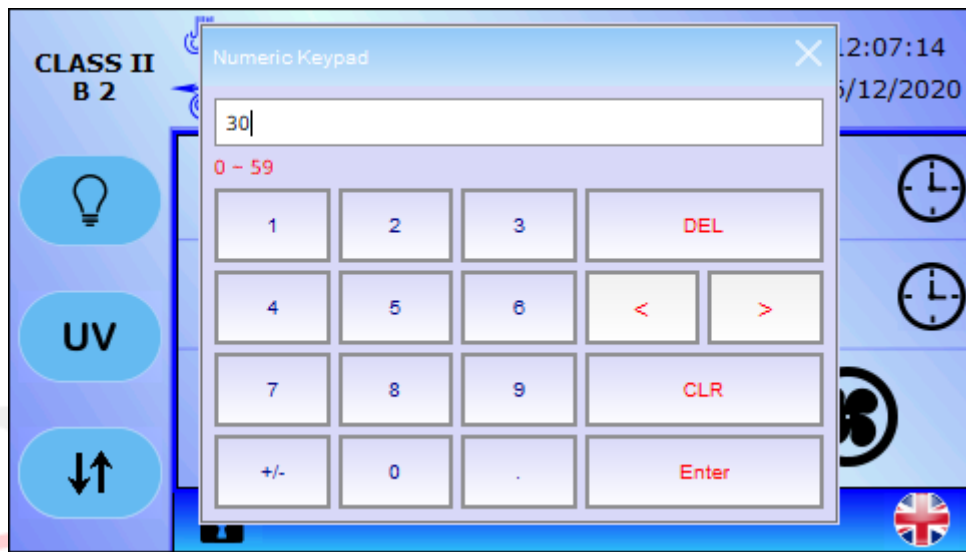


Figure 89- Dakika numerik giriş

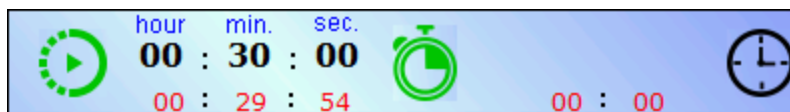
Please press OK button, when you enter the time. Following screen appears at the display and you can see the value that you enter.



Figure 90- Fan auto start 30 minutes

Please start auto-start when you set the time (Figure 72)

You can follow the remaining time after you start the auto-start



Şekil 91- Fan remaining time

Fan is turned on automatically at the set time. (Figure 92)



Figure 92- Fan auto start

Auto start is off (Figure-71), if auto repeat is off (Figure 75) after the fan starts to work.

Auto start is kept on “ on “ (Figure-72) , if auto repeat is on (Figure 76) after the fan starts to work.

Open the real time screen to start the fan at a real time. Than set the real time.

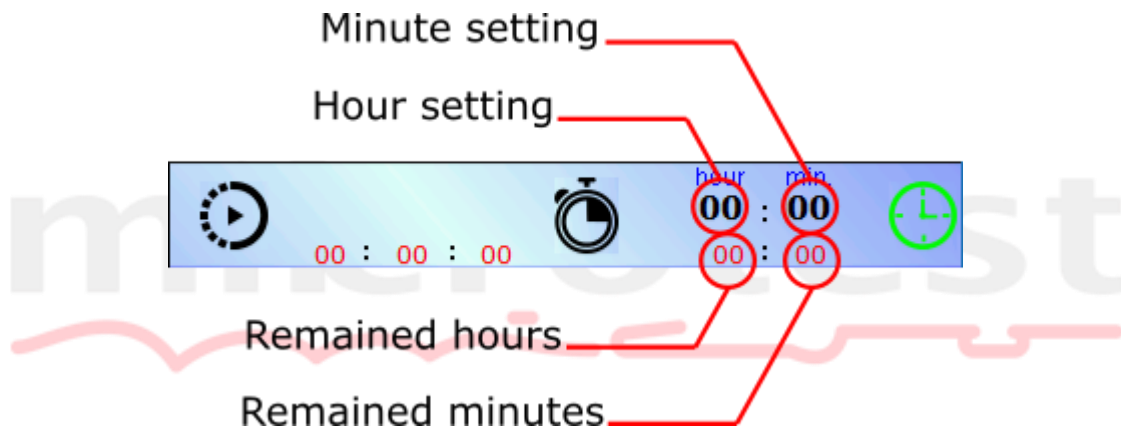


Figure 93- Fan real time setting

Set the real time auto start.

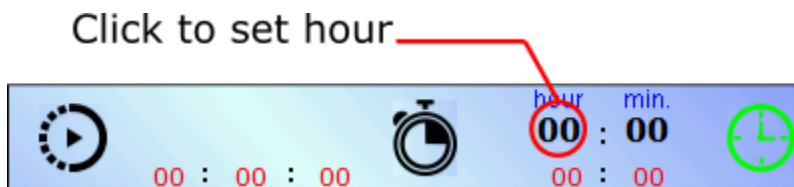


Figure 94- Fan hour setting

Following screen appears to enter the value

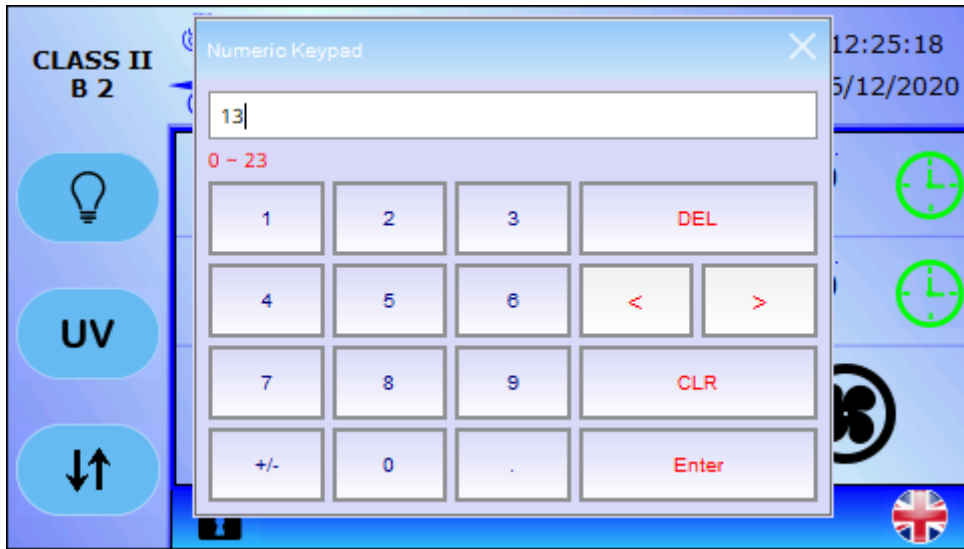


Figure 95- Hour value setting

Please press OK button, when you enter the time. Following screen appears at the display and you can see the value that you enter.



Figure 96- Fan auto start 13:00

Please start auto-start when you set the time (Figure-72)

You can follow the remaining time after you start the auto-start



Figure 97- Fan remaining time

Fan is turned on automatically at the set time. (Figure-98)

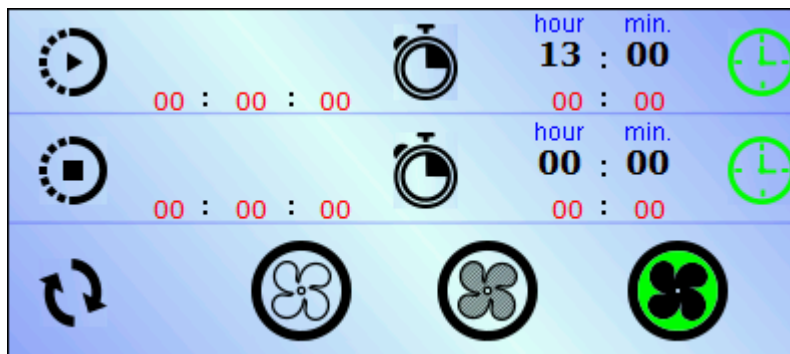


Figure 98- Fan auto-start

Auto start is off (Figure-71), if auto repeat is off (Figure 75) after the fan starts to work.

Auto start is kept on “ on “ (Figure-72) , if auto repeat is on (Figure 76) after the fan starts to work.

Fan Auto Stop:



Figure 99- Fan auto-stop

Fan is stopped automatically at the set time as retarding and at the real time as well.

Please open the menu as it is shown in Figure-78 and set the retarding time to stop the fan at the desired time.

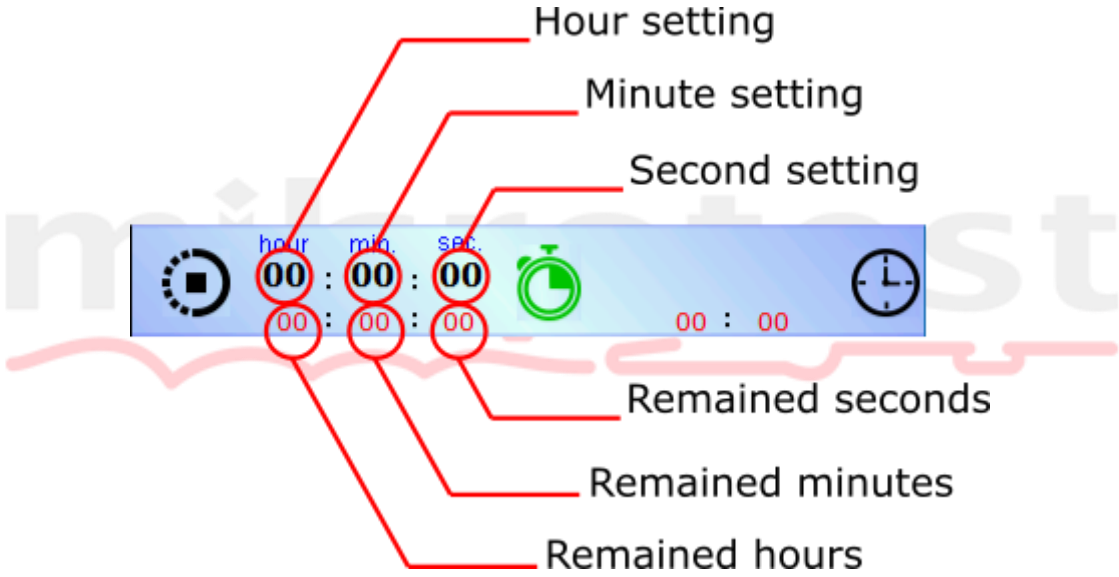


Figure 100- Fan timer

Set the desired retarding time.



Figure 101- Minute setting

Following screen appears to enter the value.



Figure 102- Minute setting

Please press OK when you set the time. Your value will appear at the screen.

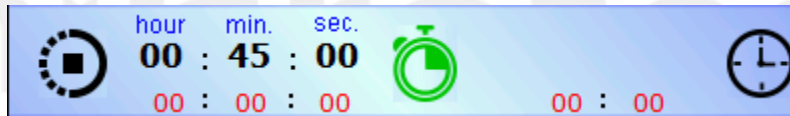


Figure 103- Fan auto-stop 45 minutes

Please start the auto stop as it is shown in Figure-74

You can follow the remaining time at the screen.

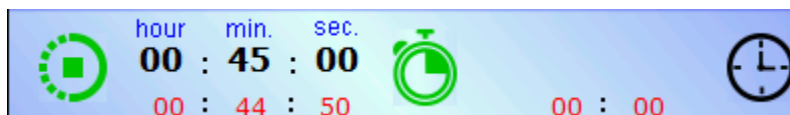


Figure 104- Fan remaining time

UV Lamp is turned off at the set time as Figure 105

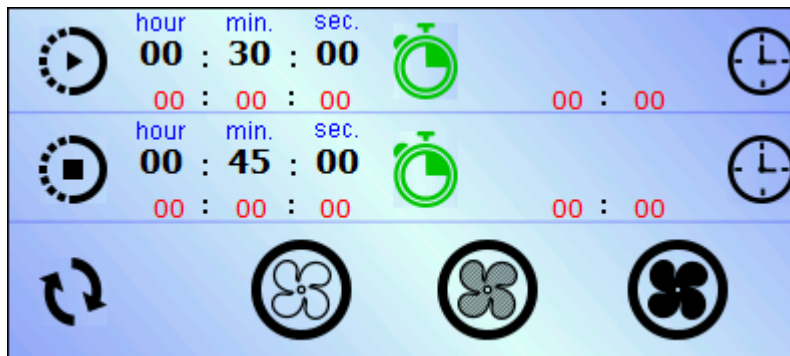


Figure 105- Fan auto-stop

Auto stop is off (Figure-73), after the fan stops if auto repeat is turned off (Figure-75)

Auto stop is kept on as “on” (Figure-74), after the fan stops if auto repeat is turned on (Figure-76)

Please open the real time screen as it is shown in Figure-80, to set the real time auto-stop for fan. You can set the real time to stop the fan automatically at the desired real time.

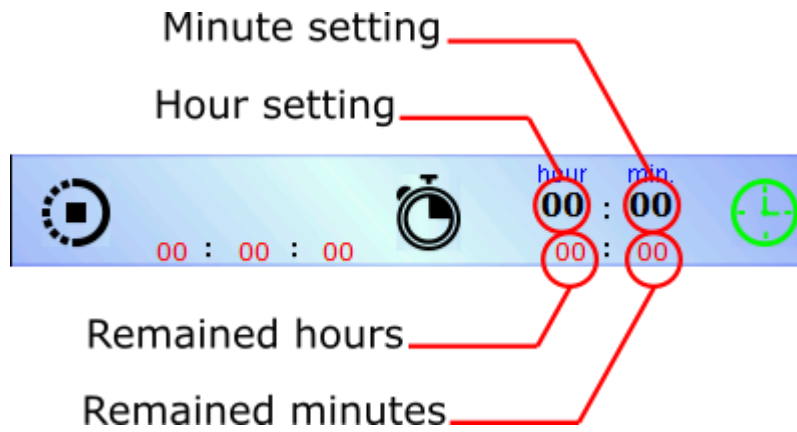


Figure 106- Fan real time setting

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Please select the real time value to stop the fan automatically.



Figure 107- Fan hour setting

Following screen appears to enter the value.



Figure 108- Hour Setting Screen

Please press OK when you set the real time. Following screen will appear at the display.



Figure 109- Fan auto-stop 14:00

Please open the auto-stop as it is shown in Figure-74

Remaining time can be followed at the screen



Figure 110- Fan remaining time

UV lamp is stopped at the real set time as it is shown in Figure-111.

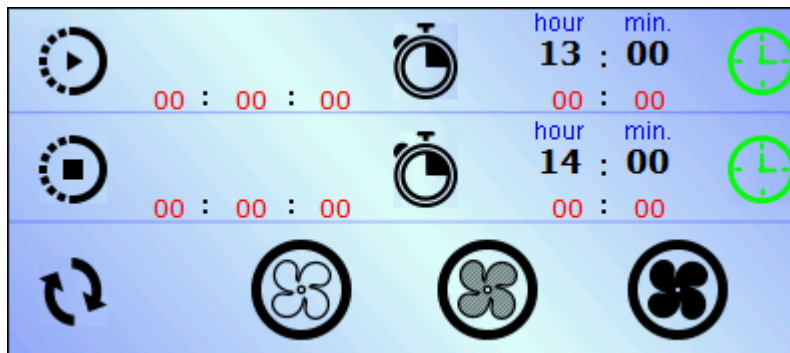


Figure 111- Fan auto-stop

Auto stop is off (Figure-73), after the fan stops if auto repeat is turned off (Figure-75)

Auto repeat is kept on as "on" (Figure-74), after the fan stops if auto repeat is turned on (Figure-76)

Information About Fan:

Please don't close the glass door while fan is working. Otherwise you have warning.

Please don't start fan, when the glass door is closed. Otherwise, fan does not work and you have warning.

Quick Start:

Quick start enable the equipment to start to work via one touch button

Please press Quick Start Button one time to activate quick start function (Figure-112)



Figure 112- Quick start button

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Following screen appears at the screen after button is pressed (Figure-113)

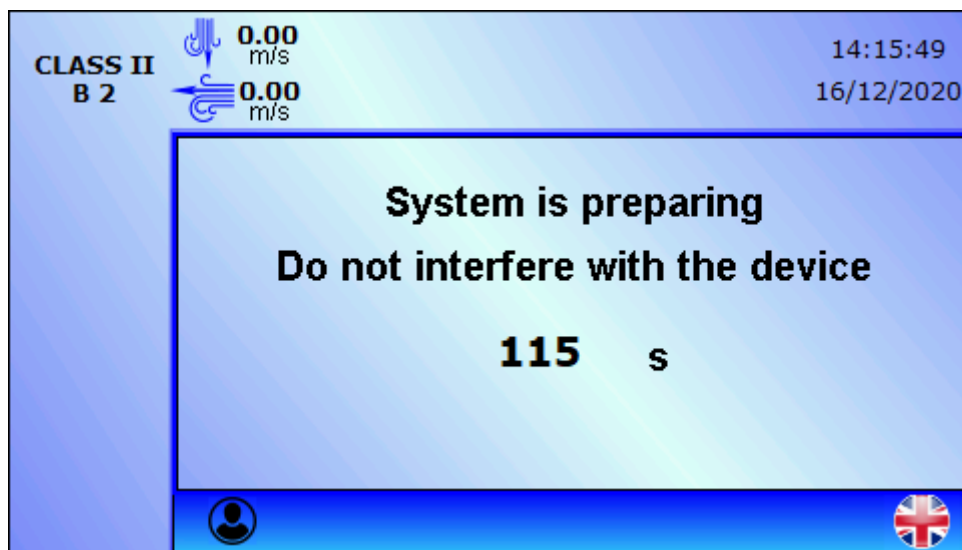


Figure 113- Quick start stand-by Hızlı başlat bekleme

Following default values are set by the equipment itself in time which appears at the screen.

- Air flow speed is set according to standard values.
- Glass door reaches to safety level. Cam seviyesi güvenli çalışma seviyesine ayarlanır.
- Lightening is started on

Following screen appears when the time is off (Figure 114)

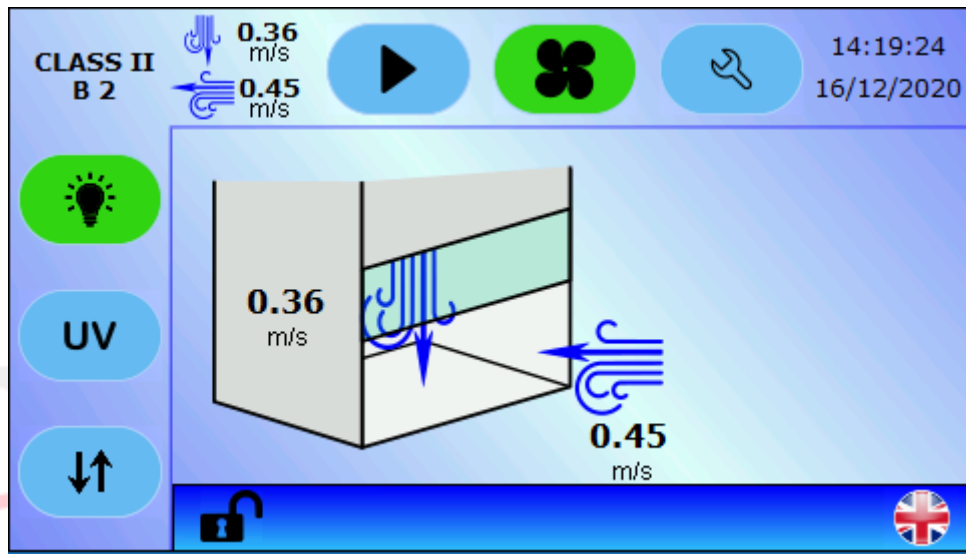


Figure 114- Cihaz working in safe

Settings:

Please press setting button to aopen the setting menu (Figure 115)



Figure 115- Setting button

Following screen apperas after you press setting button (Figure 116)

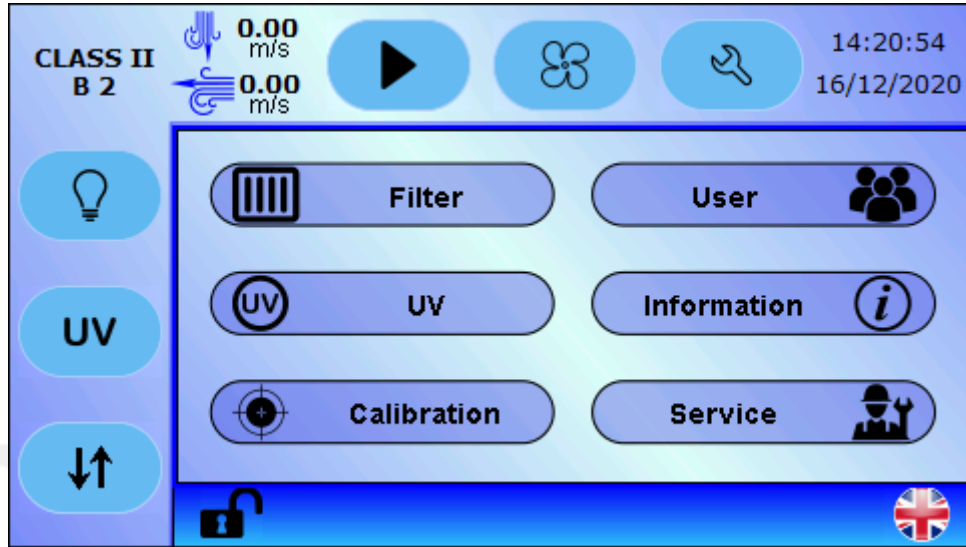


Figure 116- Settings Menu

Please press the button depending on your process.

Filter Maintenance :

You should open the following menu to initialize the usage time after the placement.

Filter replacement and initilazing the usage time should be implemented by authorized persons.



Figure 117- Filter maintenance

You should have password to open the filter maintenance menu. Please ask it to sales organization of the equipment such as your customer sales person or distributor company

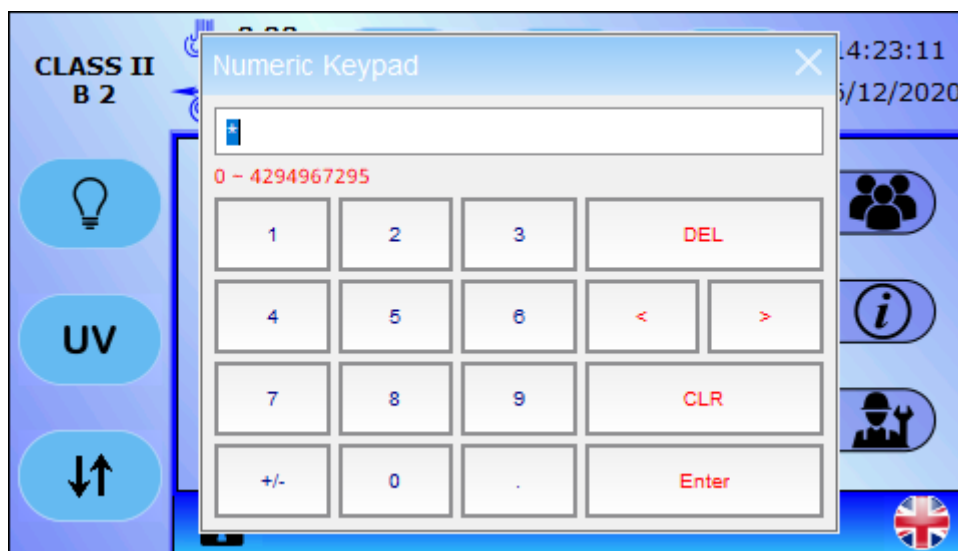


Figure 118- Filter maintenance password

Please press OK after you enter your password. Following screen appears

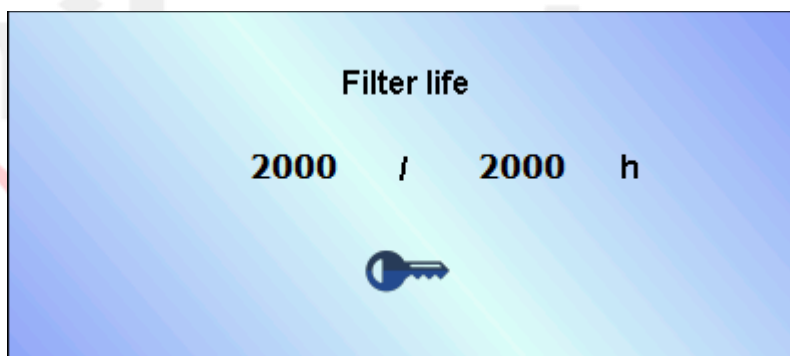


Figure 119- Filter maintenance menu

Filter usage time is initialized when you press symbol of the "Key" Figure-120

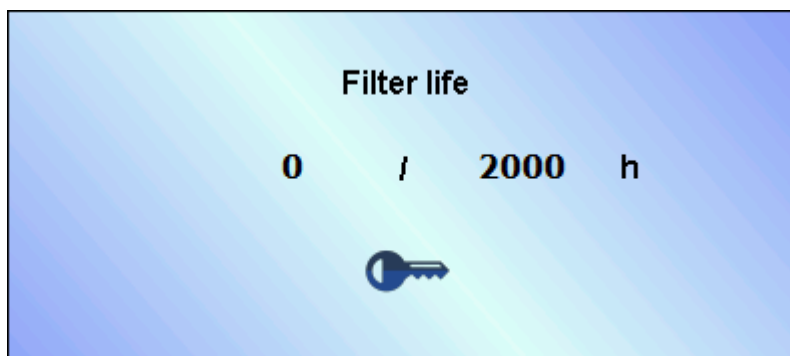


Figure 120- Filter maintenance menu

UV Maintenance:

You should open the following menu, to be able to initialize the UV lamp usage time, after its replacement.

UV lamp replacement and initializing the usage time should be implemented by authorized persons.



Figure 121- UV maintenance

You should have password to open the UV lamp maintenance menu. Please ask it to sales organization of the equipment such as your customer sales person or distributor company.

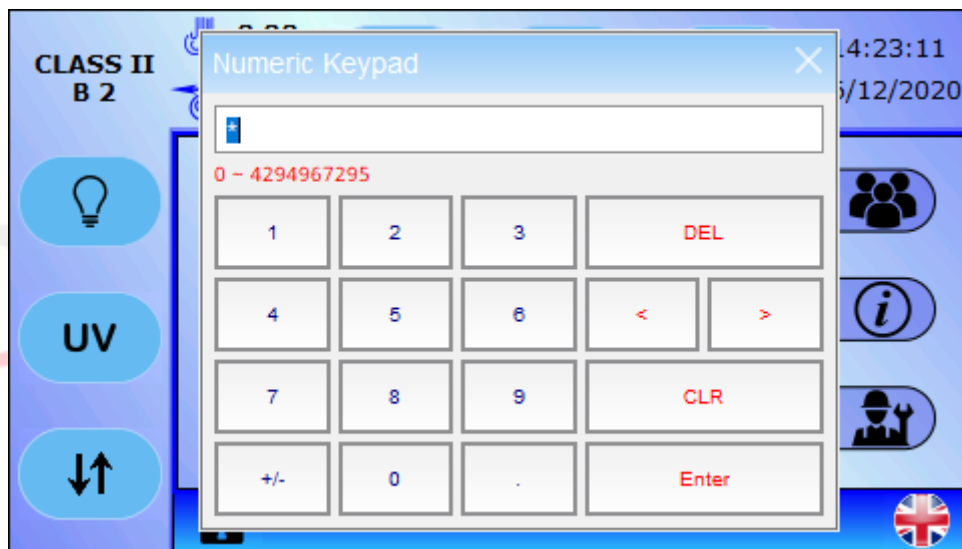


Figure 122- UV maintenance password

Please press OK after you enter your password. Following screen appears

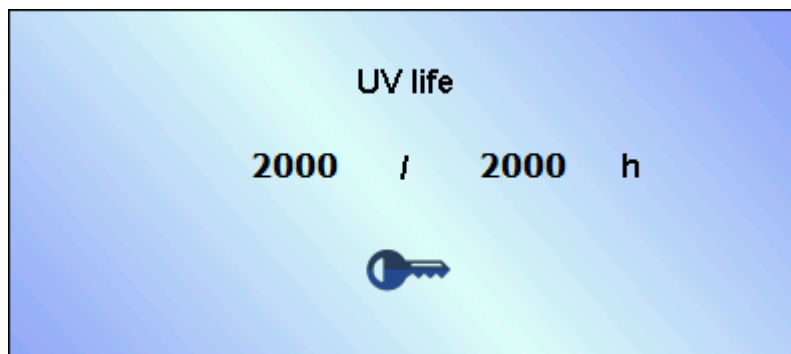


Figure 123- UV maintenance menu

UV lamp usage time is initialized when you press symbol of the “Key” Figure-124

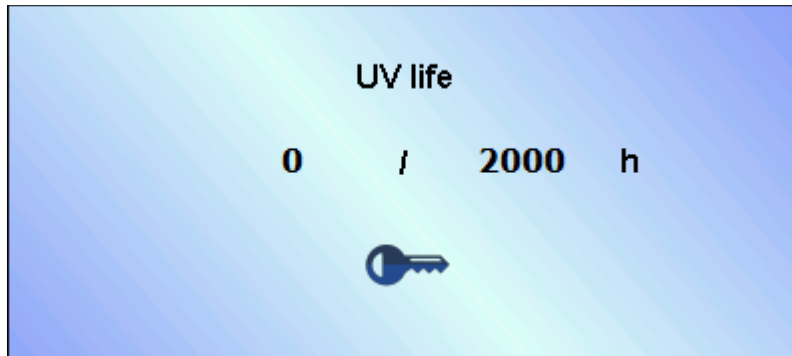


Figure 124- UV maintenance menu

Calibration:

Calibration menu is as follows. Please press the calibration button.



Figure 125- Calibrasyon button

Following menu appears after you press calibration button

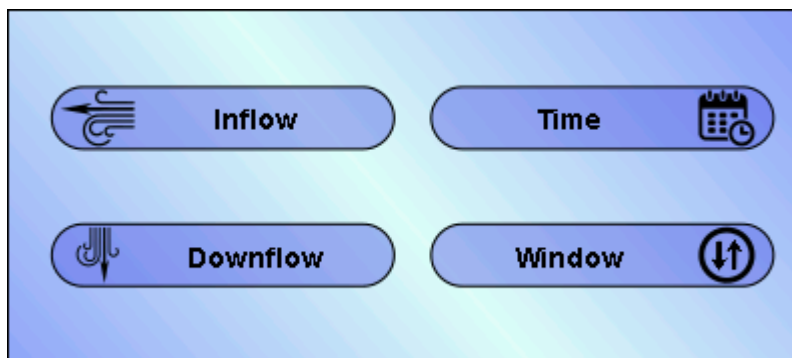


Figure 126- Calibration menu

Inflow sensor, downflow sensor, date, time and glass door calibration is implemented.

Inflow Calibration:

Calibration should be applied by authorized people. Mistaken calibration is the reason that equipment works wrong. Please press " Enterance " to make the inflow calibration (Figure-126)

You will notice following screen.



Figure 127- Inflow calibration

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Downflow Calibration:

Calibration should be applied by authorized people. Mistaken calibration is the reason that equipment works wrong. Please press " Down " to make the downflow calibration (Figure-126)

You will notice following screen



Figure 128- Downflow calibration

Time:

Please press “Time” button to calibrate date & time (Figure-126)

Following screen appears.

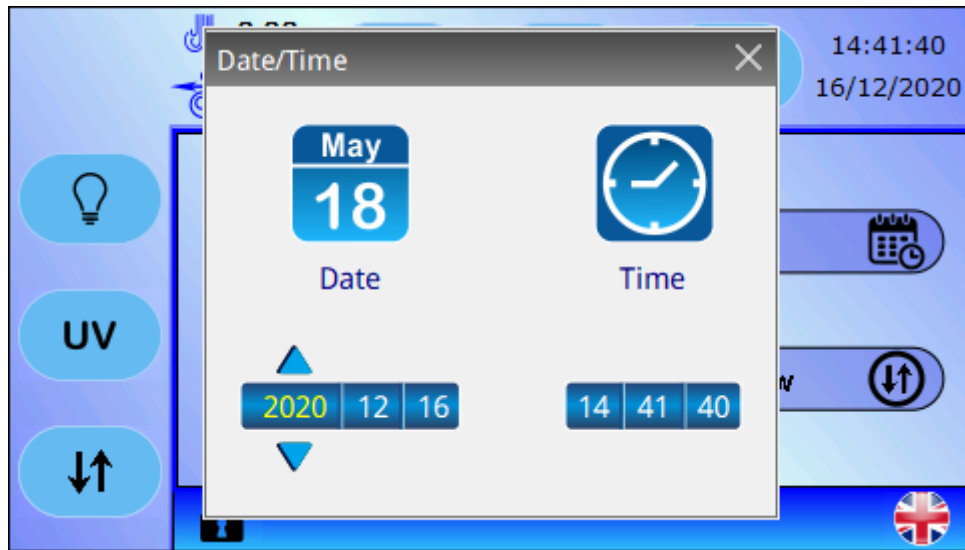


Figure 129- Date & time setting

It is enough to close the window after you set date and time.

Glass Door:

It is implemented by authorized people. After sales / Service people has authority for this calibration. End users can not enter this screen.

User:

User identification, authorization, removing the authorization, setting pages (w/password, w/opassword steps can be applied by “ User” button.

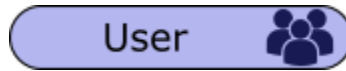


Figure 130- User setting button

Following screen appears when you press the button.

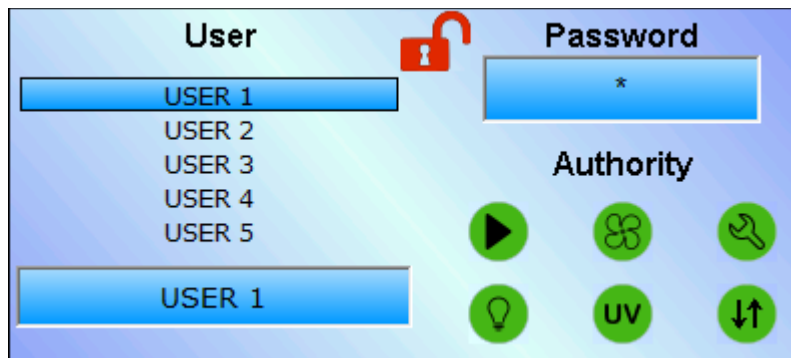


Figure 131- User menu

5 different user can be authorized. Equipment can be used in mode of with or without password. It is possible to authorize people at different authorization level.

Symbol definitons are as follows

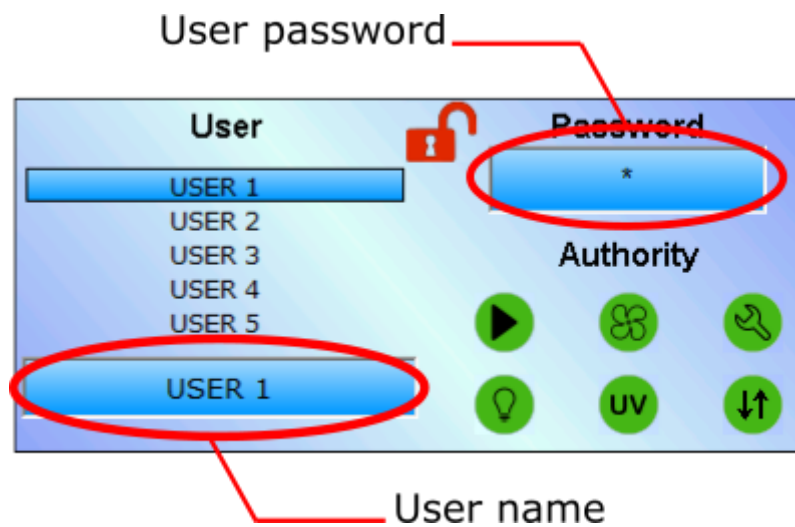


Figure 132- User menu definitions



Figure 133- Use without password



Figure 134- use with password



Figure 135- No authorization for the quick start



Figure 136- Authorized for the quick start



Figure 137- No authorization for the fan control



Figure 138- Authorized for the fan control



Figure 139- No authorization for the settings



Figure 140- Authorized for the settings



Figure 141- No authorization for the lightening



Figure 142- Authorized for the lightening



Figure 143- No authorization for the UV control



Figure 144- Authorized for the UV control



Figure 145- No authorization for the glass door control



Figure 146- Authorized for the glass door control

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You can choose user as it is shown in Figure-132. After the selection ,user name and password changes. User name and password can be changed. Authority is determined depending on user

Please press lock symbol if you want to continue with password (Figure-134). Figure-133 shows the selection of without password working.

Quick menu will appear as follows, when password is activated.

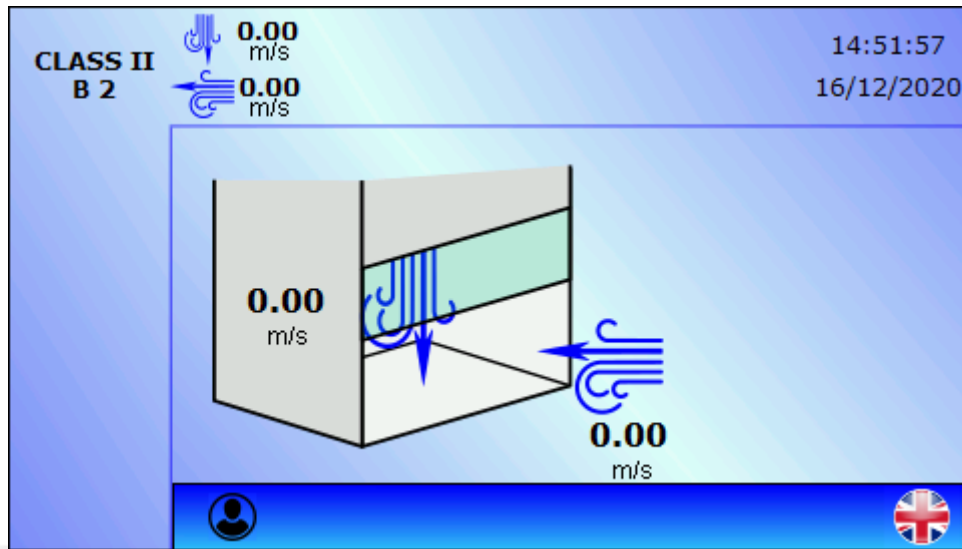


Figure 147- Main menu without any selection

Quick menu symbols definitions



Figure 148- User didn' t make any selection



Figure 149- User made selection

Unless any selection is entered (Figure-147), user symbol of quick menu has to be selected (Figure-148) to be able to make any selection to be able to enter any value.

User selection menu appears as it follows here below.

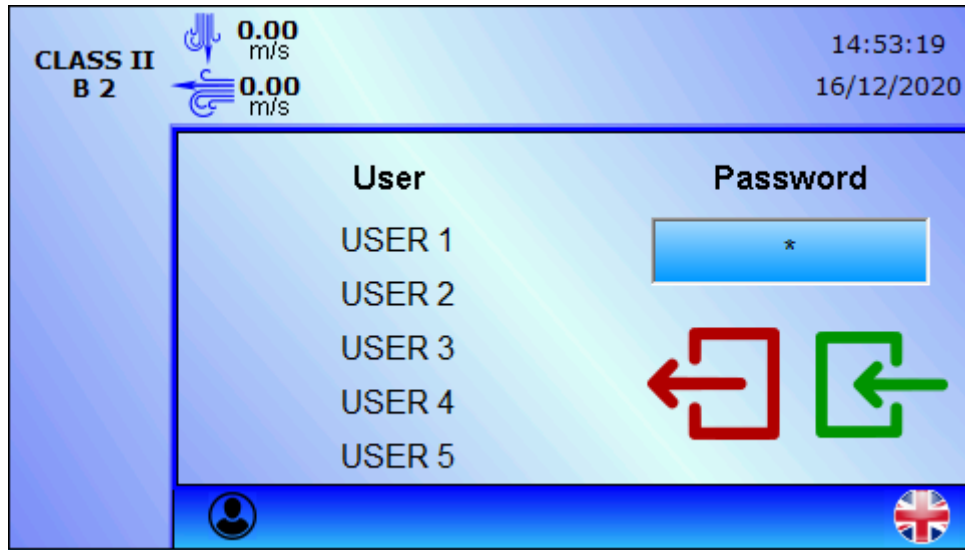


Figure 150- User selection screen

Please choose your user name (Figure-150) and enter your password. Your authorized menu will appear when you press the green color enterance button.

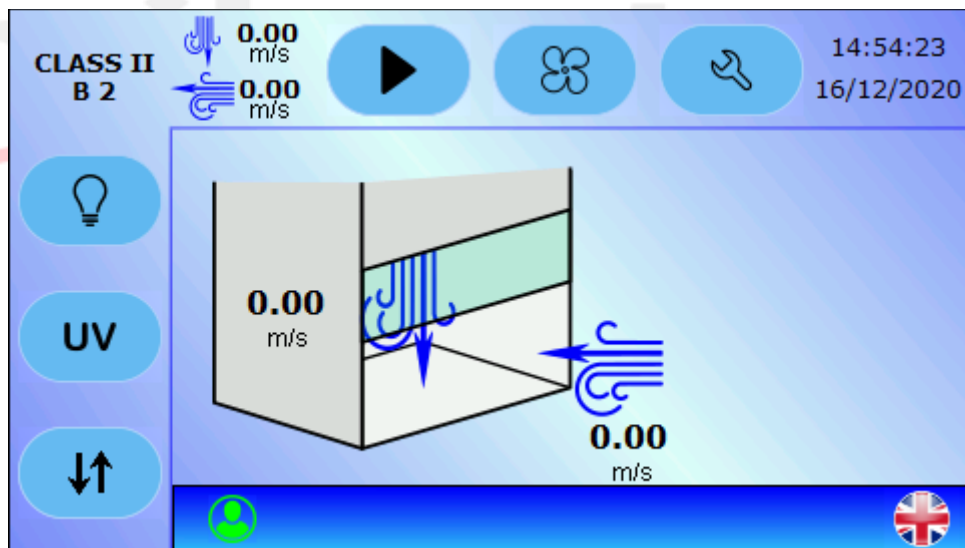


Figure 151- Main menu without any selection

User symbol is activated in quick menu (Figure-149). User menu is closed, unless any selection is made for 5 minutes. Please select the red symbol at the user entrance menu, if you want to exit yourself.

Language selection is implemented by the country flags. Following screen appears, when you select any flag to choose your language.



Figure 152- Language screen

You can choose one of the existing language. Turkish, English, German, Arabic, Spanish, Russian and Chinese are the allowed to select

Information:

You can use the following menu to be able to have any information about the equipment.

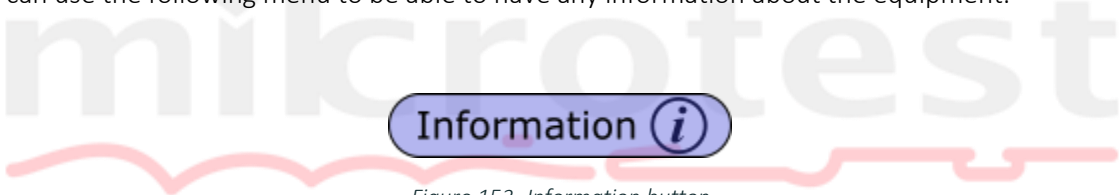


Figure 153- Information button

Information menu appears at the screen when you press button at the Figure-153



Figure 154- Info menu

Symbol definitions are as follows.

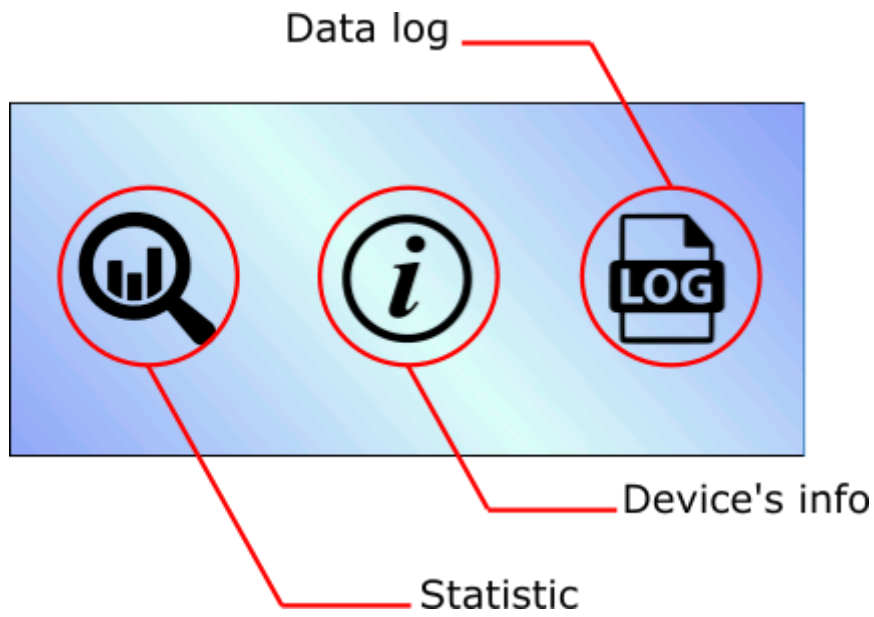


Figure 155- Info menu definitions

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Equipment statistics screen is as follows

Device uptime	0 : 22 : 35
Fan uptime	0 : 00 : 00
Lighting uptime	0 : 00 : 00
UV uptime	0 : 00 : 00
Window uptime	0 : 00 : 00
Filter life	2000 / 0 h
UV life	0 / 0 h

Figure 156- Equipment statistics

Working time of equipment, fan, lightening, UV lamp, glass door and life time of UV lamp, filter can be followed.

You have following screen when Equipment info symbol is pressed.

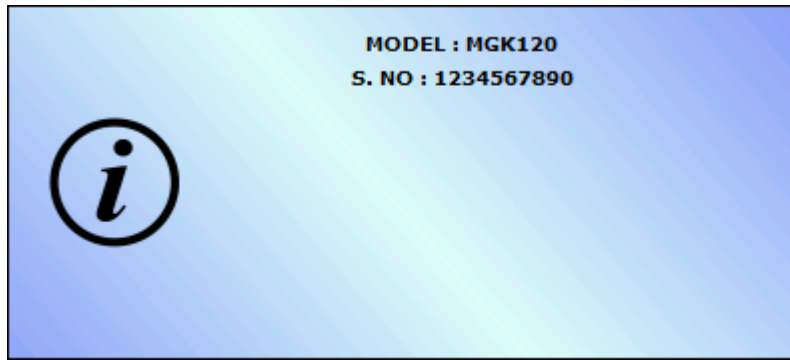


Figure 157- Equipment information

Model and serial number is followed by this screen.

You will have following screen, when data saving symbol is pressed.

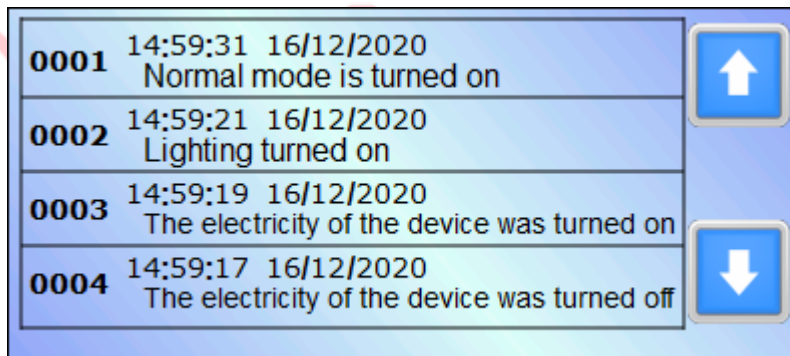
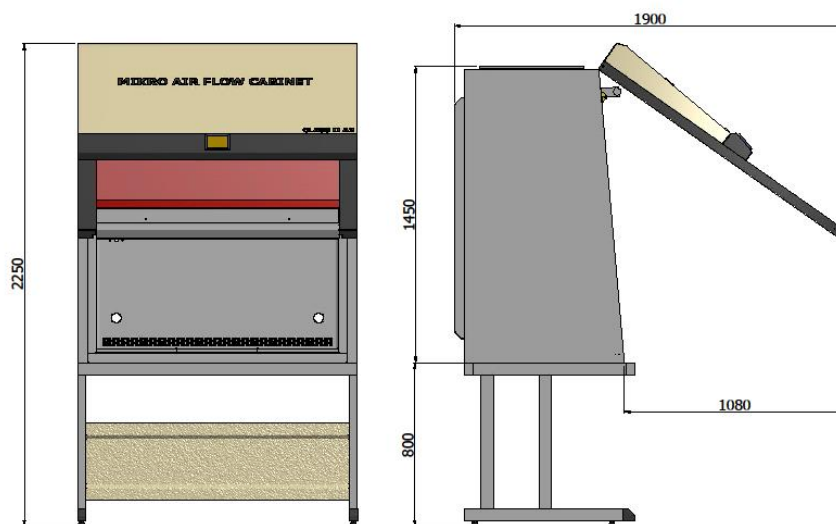


Figure 158- Data saving

All the data is saved and can be followed.

Cleaning & Maintenance

- Please pay attention to remove any residual materials when you finish daily work.
- Please take away any material which destroy the color or structural body of the equipment like spray paint, corroding or acidic sprays etc.
- Dirt and dust can be wiped off with a wet cloth.
- You can clean the inside of the equipment using ethyl alcohol.
- You can use detergent against difficult dirt.
- For cleaning the glass door of the equipment, open the locks on the sides and pull the front cover towards you, the front cover will be suspended thanks to the hydraulic system, so you can easily clean the inside of the windshield cover.
- Clean the bottom of the trays inside the equipment at least once a week.
- Learn about the undesirable effects of chemical cleaners on the device and show the necessary care in their use.



Unexpected Situations

Equipment does not work

Please check,

- Start-stop switch whether is on or off
- Equipment fuse
- Power supply and power plug
- Network power supply fuse
- Network power


Equipment does not work in a stable condition;

Please check,

- Network power supply is 230V AC

If the equipment still does not operate after the controls, please contact our company

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