Instruction manual

VWR® PREMIUM CONTROL PC SOFTWARE

EU cat. no: 390 - 1323

Version 4.1 Issue 09/2021

Legal address of Manufacturer

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1. Main description

Premium Control Software was designed to meet customers' needs to facilitate operation and control the VWR PREMIUM models. The application is the integral part of PREMIUM series units. It can be downloaded from unit's internal memory to a USB stick.

You may purchase the Premium Control in SET (a program on a USB memory stick, a special key- the licence for Premium Control, and a LAN cable) as additional equipment for:

Description	Cat. No.
IL 56 Prime	390-1346
IL 112 Prime	390-1349
IL 180 Prime	390-1350
DL 56 Prime	466-0600
DL 112 Prime	466-0601
DL 180 Prime	466-0602
VL 56 Prime	466-0603
VL 112 Prime	466-0604
VL 180 Prime	466-0605
IL 68R	390-1341
IL 150R	390-1342
IL 250R	390-1343

Two-way (to the unit and from the unit) **communication is possible only for PREMIUM models**. You can send to and download from the unit**. For the other models you can only download data from the unit**.

Application functionalities:

- simultaneously connect several PREMIUM units
- control units remotely
- overview of running program status
- save real-time running program data to the .plkx[1)] file
- alarm information
- option to create programs and upload them remotely
- modify existing programs
- create programs offline
- start / stop programs
- set a delayed start for a program
- open registry data file / events downloaded from the unit
- **generate reports** /graphs from registry or events data file
- overview of current data statistics
- generate reports from current statistics
- download statistics of the launched program
- download registered data / events
- produce charts
- user management panel
- change time zone
- change temperature correction
- set alarms

1) plkx. file is a file format saved by the Premium Control application or saved to a USB memory stick (pendrive) when downloading data/events on from the unit. These files may contain registration data (date/time, temperature) or event data (date/time, event name, type of event, code). It is not possible to open these files in another application.

2. Hardware requirements

Below there is the specification of the computer on which the Premium Control program can be installed:

- Windows 8, 10 operating system,
- min 300 MB free space on the hard disc,
- minimum screen resolution: HDTV 720p 1280×720 32-bit,
- LAN network card,
- NET Framework 4.6.1 installed (you can download it on www.microsoft.com),
- Microsoft SQL Server Compact 3.5 SP2 ENU installed,
- Microsoft SQL Server Compact 4.0 installed.

3. Program installation

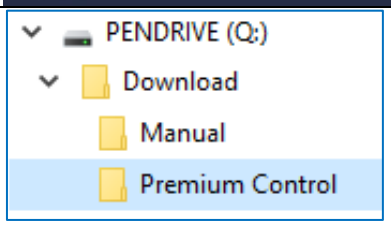
The installation program can be downloaded to a USB memory stick from the unit in the PREMIUM version. To do so:

- insert a USB memory stick into the slot,
- in main menu go to **info** and press the icon .

A folder 'Download' will be saved onto the USB flash drive in which you can find the following folders:

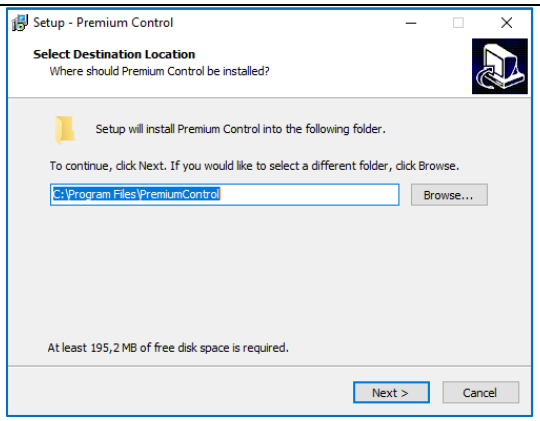
- Premium Control – includes an installation program and the instruction manual of Premium Control application
- Manual – contains a manual of the unit

From the Download\Premium Control folder run the file setup.exe.

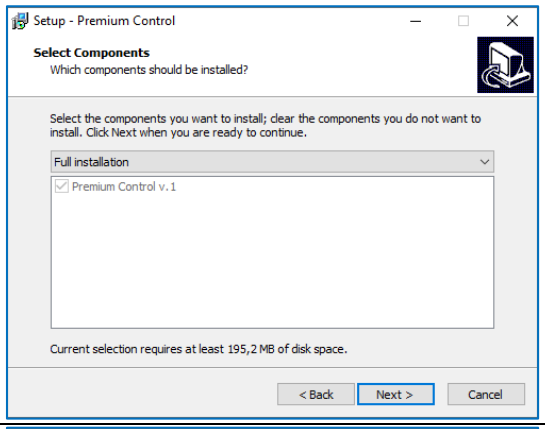


During the installation of Premium Control two additional applications: SQL Server CE 4.0 and SQL Server CE 3.5 will be automatically installed. They are necessary for a correct operation of the program.

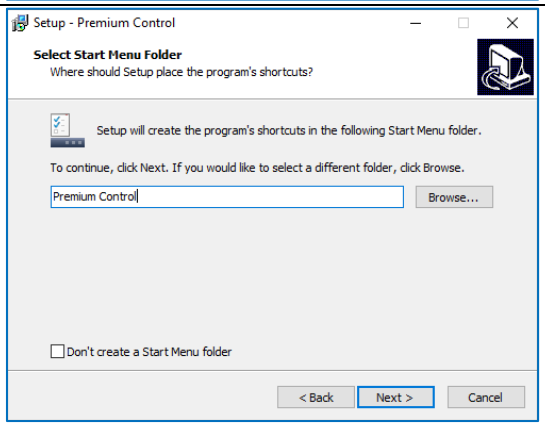
Choose the target location of the program using **Browse** button or confirm the default one by pressing **Next**.
If the target folder does not exist, the program will ask if you want to create it. Press the button: **Yes**.



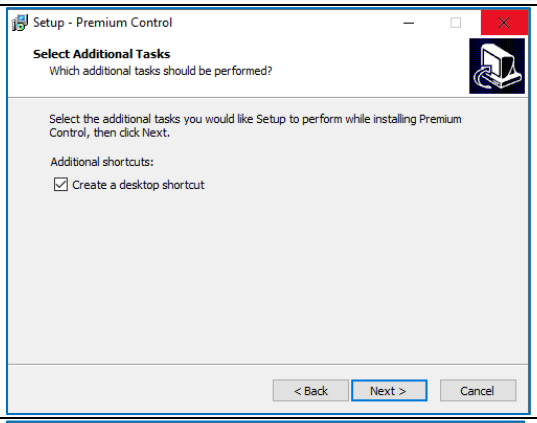
In this window confirm the installation by pressing **Next**.



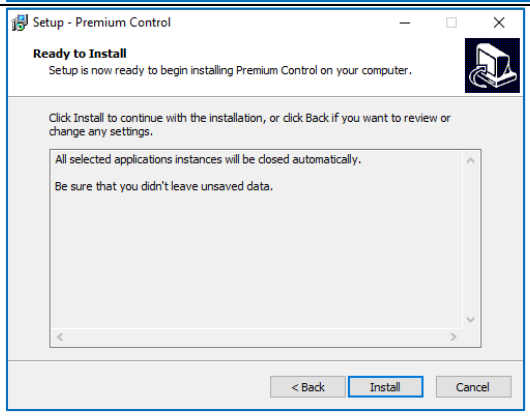
Choose Menu Start folder, in which to create shortcuts to the Premium Control application. You can skip creating shortcuts in the Start Menu by selecting the "Don't create a Start Menu folder" option at the bottom of the installation window. After finding the folder or accepting the default folder, click **Next.**



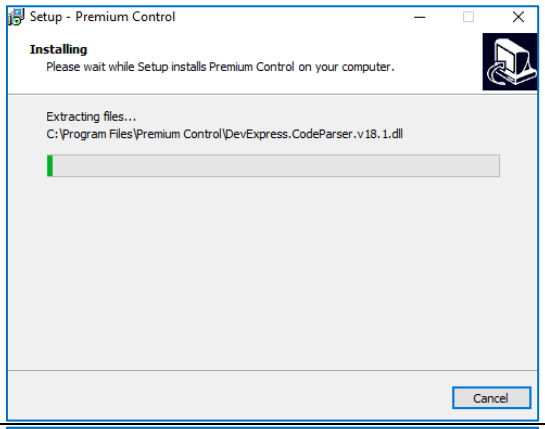
You can create an additional icon on your desktop by selecting (recommended) "Create a desktop shortcut". Click Next to continue.



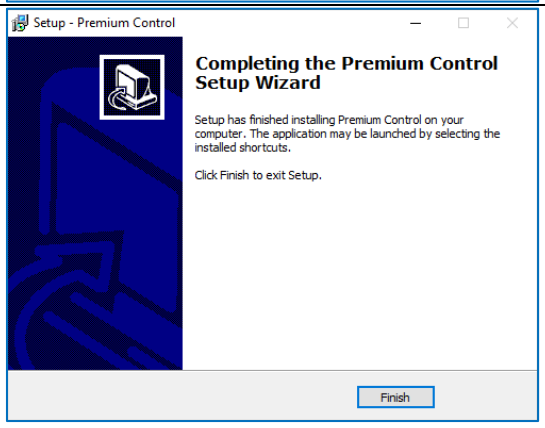
Confirm the start of installation by pressing **Install**.



The installation progress is shown graphically.



If the installation process run correctly, a summary window will be displayed. Press **Finish**.



3.1 Ports used

The port used to communicate the Premium Control application with VWR units is : **56506**

4. First start-up

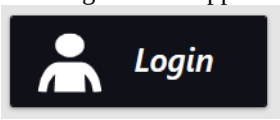
4.1 Application boot

- If **Create a desktop shortcut** was chosen during the installation process, the following shortcut will display on the desktop:

click on it to run the installed program.
- If the option "Do not create a folder in the Start Menu" was not selected, the program can be started by clicking Start→Programs→Premium Control.
- The program can also be started by clicking on the icon shown above and located in the installation folder. Default: "C: \ Program Files \ Premium Control.

4.2 Logging in

Working with the application is possible only by the logged-in user. To do this, click on the "Login" button.



Then, enter a name of a user and a password in the login window (Figure 1). During the first start-up you should enter:

login: admin
password: admin

It is recommended to change the password as soon as possible. It should contain uppercase and lowercase, symbols and numbers.
Information about changing the password is on page 18.

Figure 1 – Logging in

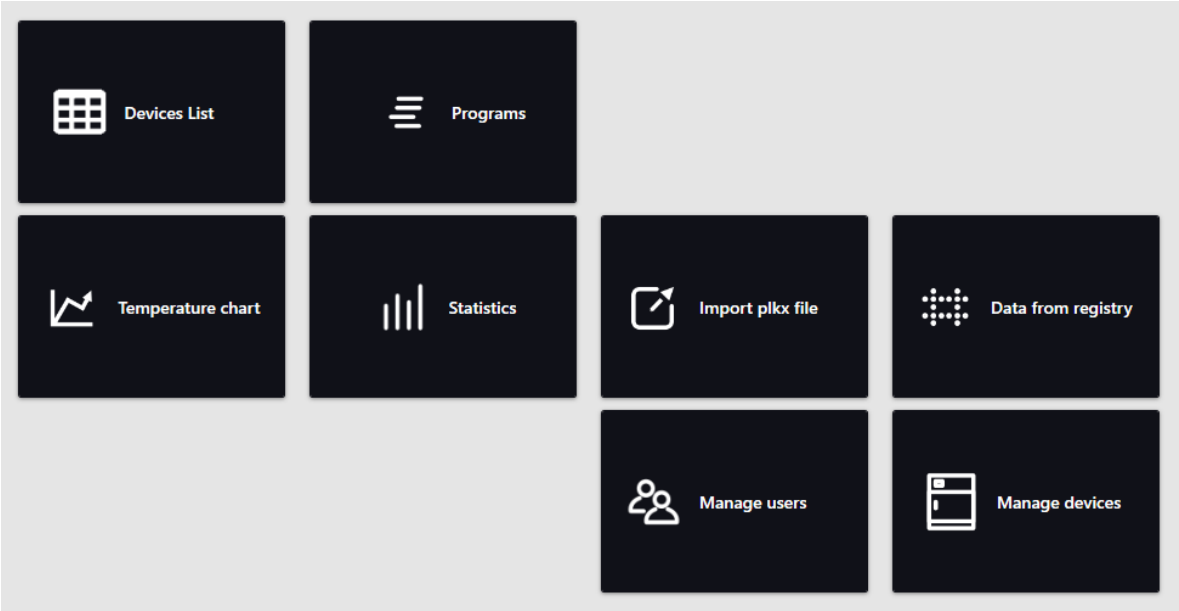


Figure 2 – Main menu

5. Operating the application

5.1 Main Menu

After the user has been successfully logged in, the main application menu will be displayed (Figure 2). The available bars depend on the rights of the logged in user.

All links to the program's function panels are available in the main menu. The same links are available in the sidebar (Figure 3).

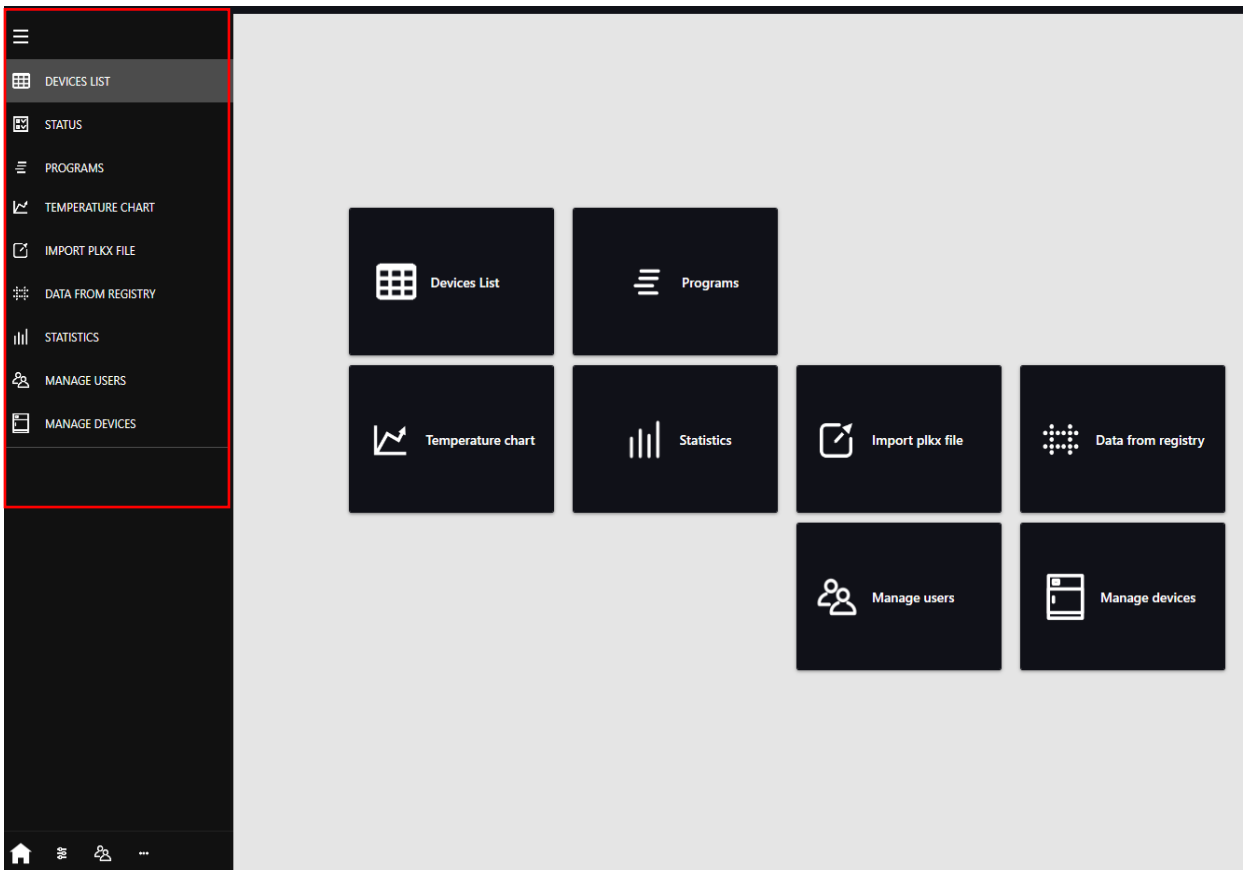


Figure 3 – Extended sidebar

The sidebar (Figure 3) enables quick moving between panels. It is always available in every panel. The extended list of panels is given below:

Extended sidebar

List of units

Status

Programs

Temperature chart

Import of .plkx file

Data from registry

Statistics

Manage users

Manage devices

Main menu

Settings

Logged in user

The panels are described in details further in the manual.

5.2 List of units

This panel displays units available to the logged-in user.

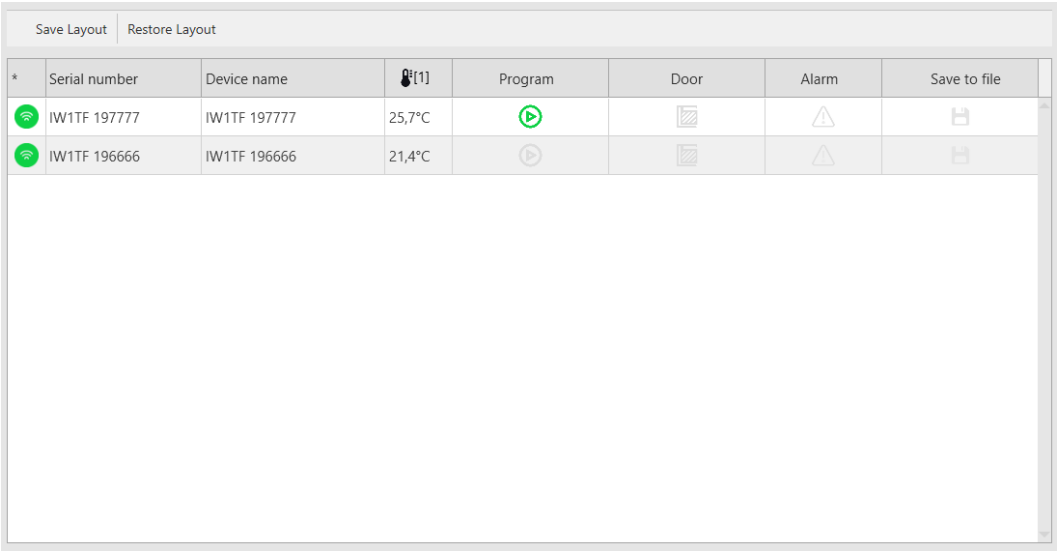
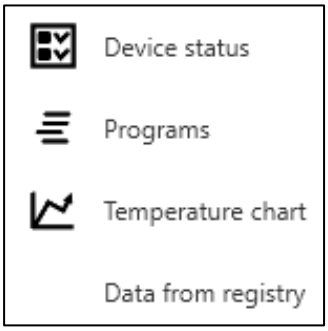


Figure 4 – List of units

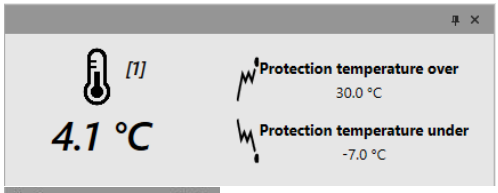
Available functions:

- **Save the diagram** – saves the current column layout
- **Restore layout** – restores default column layout
- **Save to file** – clicking the icon starts recording on a regular basis to a file
- **Concise header menu** - available by right-clicking on the table header. Enables to quickly move to a chosen panel.
- **Concise device menu** - available after right-clicking on the unit's row. It allows you to move quickly to the selected panel.

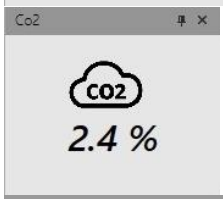


5.3 Status

The "status" panel is used to monitor the currently running program and the status of the equipment. It consists of independent windows that can be moved and closed. To save the layout of windows, save it by clicking on **Save diagram**. The Restore Layout button restores the default layout of the windows. For other units (not Premium) a key is required.



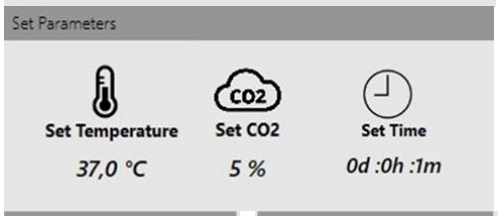
Current temperature,
Over and under temperature protection



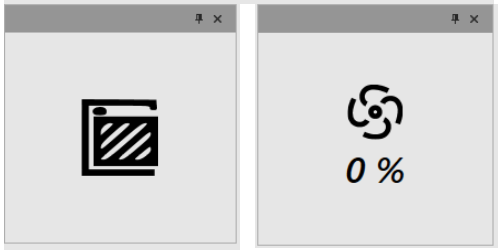
Current CO_2 concentration

Program status: works or is turned off
Program stage: heating, cooling or maintaining the temperature

The program segment currently being executed, the selected priority, the duration of the segment, the number of the loop being executed

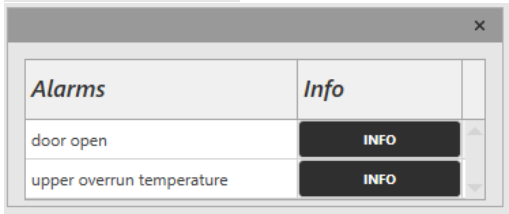


Set temperature, CO_2 concentration, time



Door status: open or closed
Fan performance

Indicates that the internal lightning is on



List of active alarms.
button **„INFORMATION"** – displays a preview of all instances of the selected alarm

5.4 Programs

In this panel (Figure 5) you can browse programs, add a new one or edit an existing program. The top menu is available:

D. START – planning the program launch according to set date and time.
START – starts the chosen program.
STOP – stops the program.
CREATE PROGRAM – launches the new program creator.
EDIT PROGRAMU –edits the chosen program.
PROGRAM OFFLINE – enables to create a program without connecting to the unit (more information page 14).
DELETE PROGRAM – deletes the selected program.

Available only for Premium units. For other equipment a key is required and only a program preview is available.

5.4.1. Preview of the program list

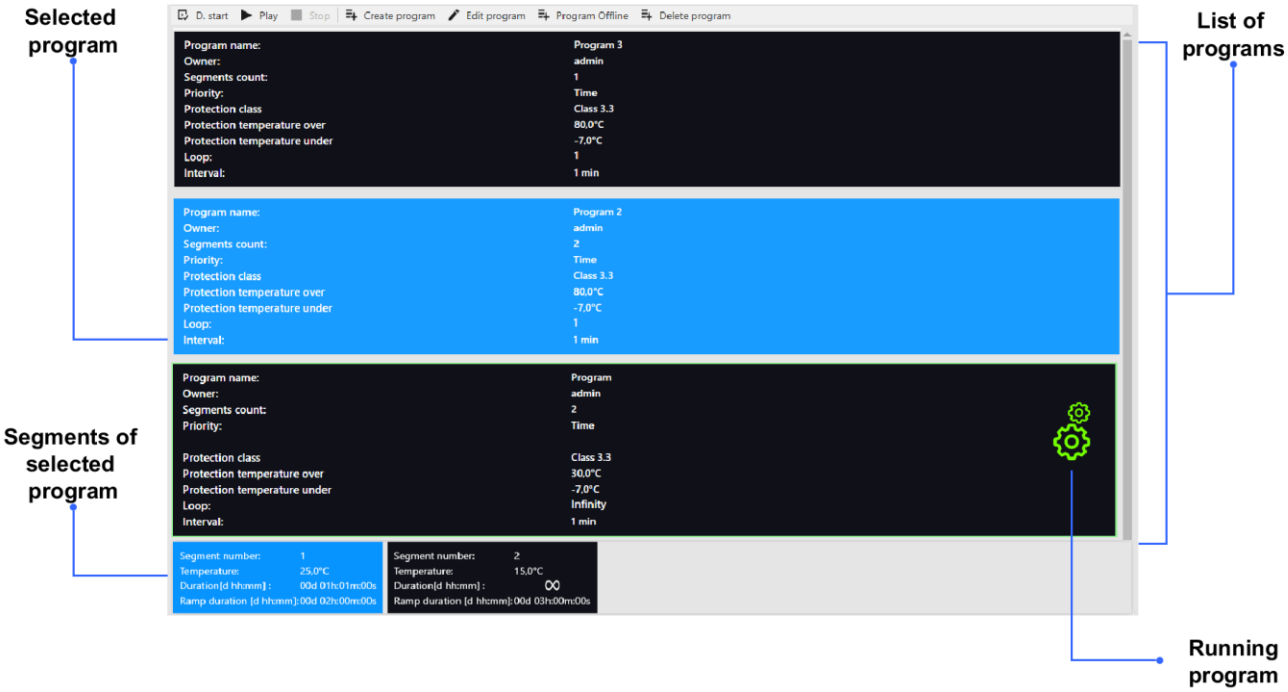


Figure 5 – Program list

5.4.2. Creating / edition of program

	A detailed description of the set parameters in the program can be found in the manual of PREMIUM equipment.

Available only for PREMIUM units.
Click „**add a program**" or „**program edition**", and program creator will be displayed.

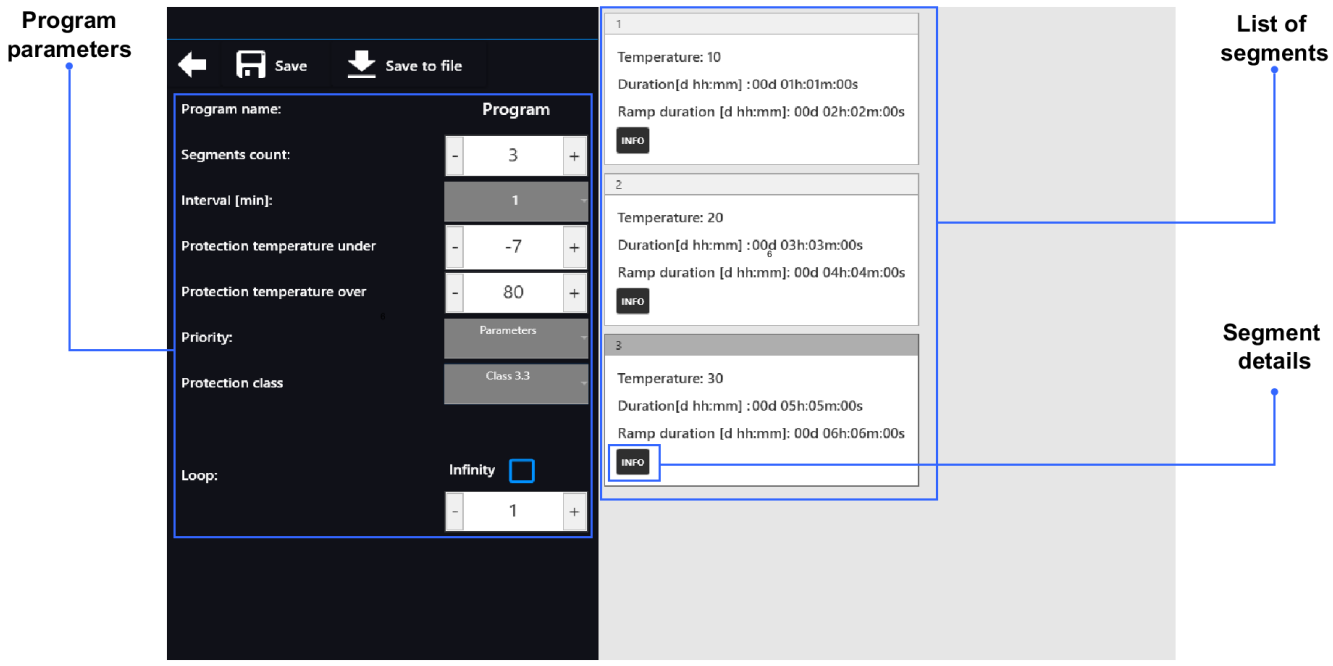


Figure 6 - Adding / edition of program

In the left part of the window, in the program parameters, you can set:

- The name of a program
- Number of segments
- **Interval [min]** – frequency of data saving to the data register
- Under temperature protection
- Over temperature protection
- **Priority** – time or parameters priority, more information
- **Protection mode** – the security class of the program
- **Loop** – the number of program repetitions, more information.

Once all the above program parameters have been set, go to the List of segments in the right part of the window where you can edit individual segments.

By clicking INFO you can display / edit the detailed information about the segment (Figure 7):

- **temperature** – set temperature which the unit is to achieve in the segment (cannot be lower than the protection temperature (under temperature) +2°C and higher than the temperature of the over-temperature -2°C),
- **duration of the segment –** time of maintaining the set temperature ([d hh:mm]) in days, hours and minutes; in the last segment you can choose continuous work,
- **ramp duration** – time of reaching the set temperature ([d hh:mm]) marked in days, hours and minutes.

The following parameters are available on selected models or as options available on request:

- **fan** – fan efficiency in %,
- **ramp fan** – efficiency of the fan while maintaining the set temperature,
- **CO_2** – set CO_2 concentration which the unit is to achieve in the segment,
- **ventilation pipe** – the level of ventilation pipe opening,
- **ramp pipe** – the degree of ventilation pipe opening during maintaining the set temperature.

Save - saves the introduced changes in the program, available after passing through all segments.

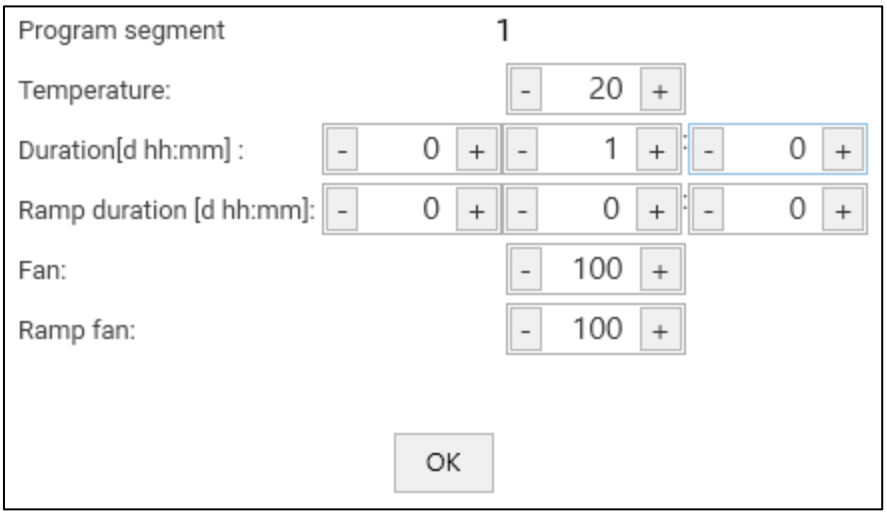


Figure 7 – Segment edition

5.4.3. Creating an offline program

Available only for PREMIUM units.

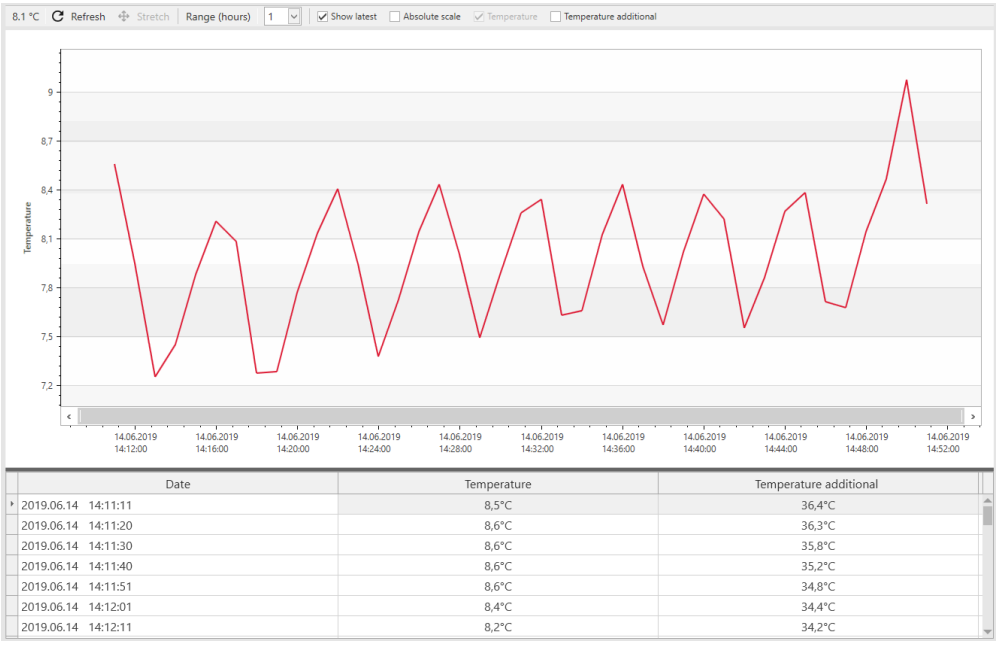
The offline program gives opportunity to create a program without connecting the unit to the network or a computer. You need a file with a configuration of the equipment which the program is created for. It can be created by following steps below:

1) Insert the USB stick to the selected unit.
2) Log in.
3) Go to the „Info" panel.
4) Confirm the window asking if you want to save the unit ID to the data carrier, by pressing ✓.
5) Remove the USB stick and connect it to the computer with the Premium Control application installed.
6) Go to the „Programs" panel and click „Offline Program".
7) In the file opening window select the USB stick and browse the file saved on/downloaded from the equipment. The file has a type, model and serial number in its name.
8) Create a program in the creator.
9) Click „Save to file" – program will be saved in the location specified in „Settings" in the section „Storage of unit records" .
10) You can create several programs.
11) Transfer the saved file to the USB stick.
12) Remove the USB stick and insert to the equipment.
13) In the equipment enter „Main Menu" and the "Programs" panel.
14) Click the icon ... and then .
15) Select the saved program from the list.
16) The program will appear on the list.

	The saved program file is only visible in the equipment based on which the configuration was created.

5.5 Graph

For other units (not Premium) a key is required.
In this panel you have a preview of the temperature and CO_2 concentration that prevailed in the unit at a given time in the form of a graph. In this panel, a graph is drawn from the data currently downloaded from the unit. Drawing the graph starts when connected to the unit and continues even if the graph panel is not displayed. Presented series of the data depend on the type and equipment of the unit with which we are connected.



Date	Temperature	Temperature additional
2019.06.14 14:11:11	8,5°C	36,4°C
2019.06.14 14:11:20	8,6°C	36,3°C
2019.06.14 14:11:30	8,6°C	35,8°C
2019.06.14 14:11:40	8,6°C	35,2°C
2019.06.14 14:11:51	8,6°C	34,8°C
2019.06.14 14:12:01	8,4°C	34,4°C
2019.06.14 14:12:11	8,2°C	34,2°C

Figure 8 – Temperature graph

In the upper left corner the current temperature from the main sensor is displayed.
This panel can be refreshed on a regular basis using the "**refresh**" option on the top taskbar.

The data for the chart is saved every defined period of time (in this case, 5 seconds), however, you can turn on or off the chart refreshing with the "**show latest**" button. If the button is blue, it means that the chart is updated on a regular basis. However, if it is white then the graph will be in place.

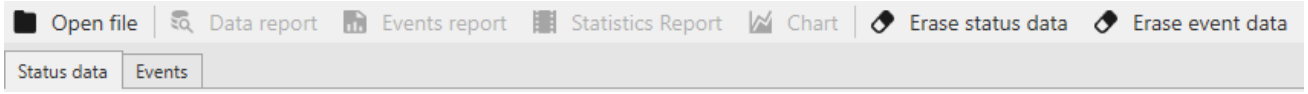
The "**stretch**" option displays the entire graph. Available if the option to update data on the chart is off.
Selecting the "**absolute scale**" scales the y axis so that it starts from 0 °C.
The "**Temperature**", "**Additional sensor**", "**CO_2**" options display or hide the data series on the chart.

5.6 Import of PLKX file

For other units (not Premium) a key is required.
Panel (**Błąd! Nie można odnaleźć źródła odwołania.**) enables the opening of *.plkx file which contains data registered n the unit:

- data: date and time, temperature of the main sensor, optionally the temperature of the additional sensor, CO_2 concentration
- events: date and time, event description, event priority, service code.

The following main menu is available:



Open file – opens a file with .plkx extension.
Data report – opens a window with data report.
Events report – opens a window with events report.
Statistics report – opens a window with a report summarizing each segment of the program. It contains information about registration time, the number of samples, the registered minimum and maximum value and the average temperature value.
Chart – opens a window with a chart – available only for data.
Erase status data – closes a file with data.
Erase event data – closes a file with events.
Status data and Events – buttons that enable to switch between open files with data and events.

Saving the PLKX file on the unit:

1) connect a USB stick directly to the unit.
2) enter the main menu and then to „**data register**" panel where you can download the registered data or to „**event register**" panel where you can download register data on the unit.
3) Press the icon choose *.plkx type and confirm.
4) Connect the USB stick to the computer and in Premium Control application click „**open file**" in the top left corner.

N:\2021-07-19_ILCO180PREMIUM_IC18210001_DataRecord.plkx

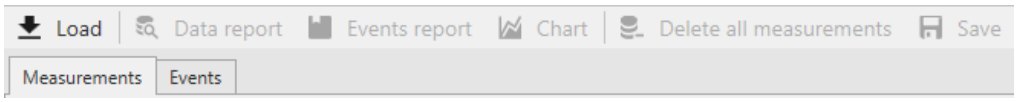
Date	Temperature	Program phase	CO2
2021-07-19 05:21:47	24,5°C	set temp.	4,5%
2021-07-19 05:22:47	24,5°C	set temp.	4,5%
2021-07-19 05:23:47	24,5°C	set temp.	4,5%
2021-07-19 05:24:47	24,5°C	set temp.	4,5%
2021-07-19 05:25:47	24,5°C	set temp.	4,5%
2021-07-19 05:26:47	24,5°C	set temp.	4,5%
2021-07-19 05:27:47	24,5°C	set temp.	4,5%
2021-07-19 05:28:47	24,5°C	set temp.	4,5%
2021-07-19 05:29:47	24,5°C	set temp.	4,5%
2021-07-19 05:30:47	24,5°C	set temp.	4,5%
2021-07-19 05:31:47	24,5°C	set temp.	4,5%
2021-07-19 05:32:47	24,5°C	set temp.	4,5%
2021-07-19 05:33:47	24,5°C	set temp.	4,5%
2021-07-19 05:34:47	24,5°C	set temp.	4,5%
2021-07-19 05:35:47	24,5°C	set temp.	4,5%
2021-07-19 05:36:47	24,5°C	set temp.	4,5%
2021-07-19 05:37:47	24,5°C	set temp.	4,5%
2021-07-19 05:38:47	24,5°C	set temp.	4,5%
2021-07-19 05:39:47	24,5°C	set temp.	4,5%
2021-07-19 05:40:47	24,5°C	set temp.	4,5%

Figure 9 – Import of PLKX file

5.7 Register data

For other units (not Premium) a key is required.
Panel (Figure 9) enables to download registered data and events from the unit.

The following menu is available:



Load – downloads registered data and events from the unit.
Data report – opens a window with data report.
Events report – opens a window with events report.
Chart – opens a window with a graph – available only for data.
Delete all measurements – deletes all the measurements on the unit.

Delete data register – deletes all the events on the unit.
Save – saves the downloaded date in the location specified in the settings.

To download data/events in the right panel with the list of units, select the unit and click Connect. Then click **"LOAD",** the recorded data and events will be downloaded.
Clicking one of the DELETE options erases the data on the unit irretrievably. Therefore, it is recommended to download and save data and events before this.

Measurements | Events

Date	Temperature	Program phase	Additional
2019-06-14 14:59:24	7,5°C	set temp.	29,9°C
2019-06-14 14:58:24	8,3°C	set temp.	30,0°C
2019-06-14 14:57:24	8,4°C	set temp.	29,7°C
2019-06-14 14:56:24	8,0°C	set temp.	27,8°C
2019-06-14 14:55:24	7,6°C	set temp.	29,2°C
2019-06-14 14:54:24	8,2°C	set temp.	29,5°C
2019-06-14 14:53:24	8,4°C	set temp.	28,8°C
2019-06-14 14:52:24	8,0°C	set temp.	27,0°C
2019-06-14 14:51:24	7,6°C	set temp.	28,6°C
2019-06-14 14:50:24	8,1°C	set temp.	30,2°C
2019-06-14 14:49:24	9,1°C	set temp.	30,2°C
2019-06-14 14:48:24	8,5°C	set temp.	29,8°C
2019-06-14 14:47:24	8,1°C	set temp.	28,2°C
2019-06-14 14:46:24	7,6°C	set temp.	28,4°C
2019-06-14 14:45:24	7,8°C	set temp.	30,8°C
2019-06-14 14:44:24	8,5°C	set temp.	30,0°C
2019-06-14 14:43:24	8,3°C	set temp.	29,1°C
2019-06-14 14:42:24	7,8°C	set temp.	27,7°C
2019-06-14 14:41:24	7,5°C	set temp.	29,8°C
2019-06-14 14:40:24	8,3°C	set temp.	30,1°C

Figure 9 – Downloaded data

5.8 Statistics

For other units (not Premium) a key is required.
In this panel (Figure 10) statistics are downloaded from the unit and displayed, on the currently running program or program that has ended. Statistics are calculated separately for each segment and separately for each cycle. Data logging starts for calculation after 30 seconds from reaching the set temperature in the segment. The next data is registered every 1 minute. Statistical data is retrieved from the unit.

Data report

Loop number: 1

Segment number	Average temperature	Minimal temperature	Maximal temperature
1	6.10	3.60	21.49
2	8.00	4.97	8.52

Loop number: 2

Segment number	Average temperature	Minimal temperature	Maximal temperature
1	4.42	3.18	9.38
2	7.99	4.04	8.52

Loop number: 3

Segment number	Average temperature	Minimal temperature	Maximal temperature
1	4.41	3.28	16.22
2	7.80	4.53	9.05

Figure 10 – Statistics

5.9 Manage the users

Panel (Figure 11) is used to manage users of Premium Control application and allows to connect them with users available in units

The top menu is available:

Add user – adds a new Premium Control user.
Edit user – allows to change data.
Delete user – deletes Premium Control user.
Assign devices – allows you to assign the Premium Control application to the user of the connected unit.
Delete device connection – allows you to delete the user's connection to the unit.

After entering the panel, users have a panel divided into two windows and a taskbar at the top. The upper window contains information about the created users and the bottom window contains information about the units assigned to them.

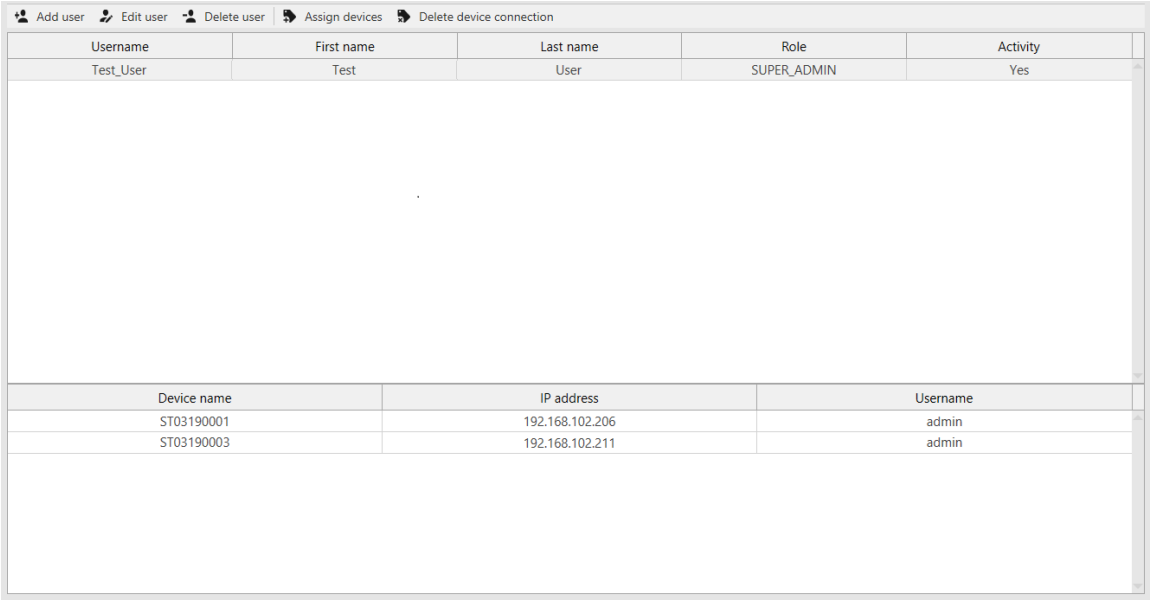


Figure 11 – Manage the users

5.9.1. User creation / edition

Click Add a user or Edit a user, a creator will display *(Figure 12)* where in the following windows you can enter the name and user data, select the role and enter the password. All fields must be filled out.

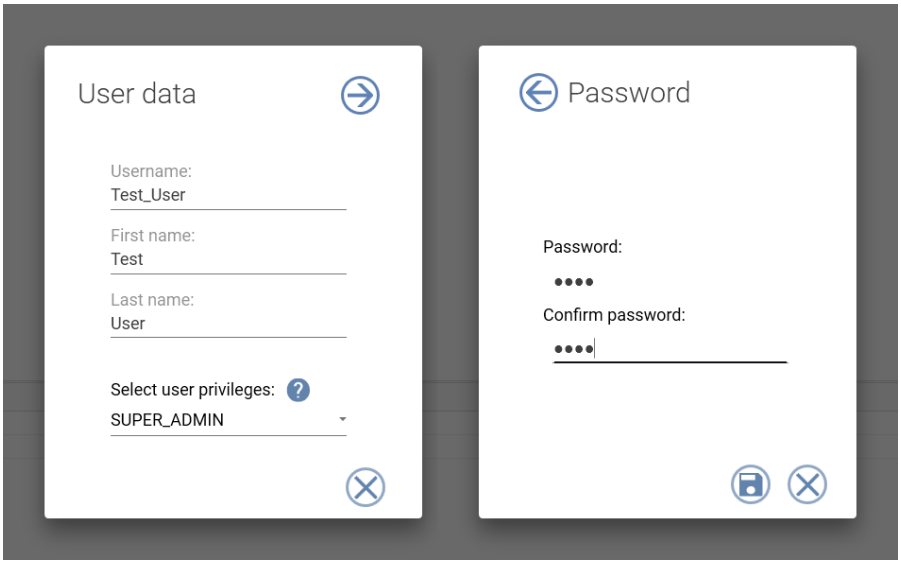


Figure 12 – User edition

5.9.2. Assigning units

In order to enable a user connection to a given unit, it must be associated with the user on the unit. To do this, go to the **"manage users"** panel and then click **"Assign devices"**. A wizard will be launched where in the subsequent windows select the unit and the user with whom you want to link it.

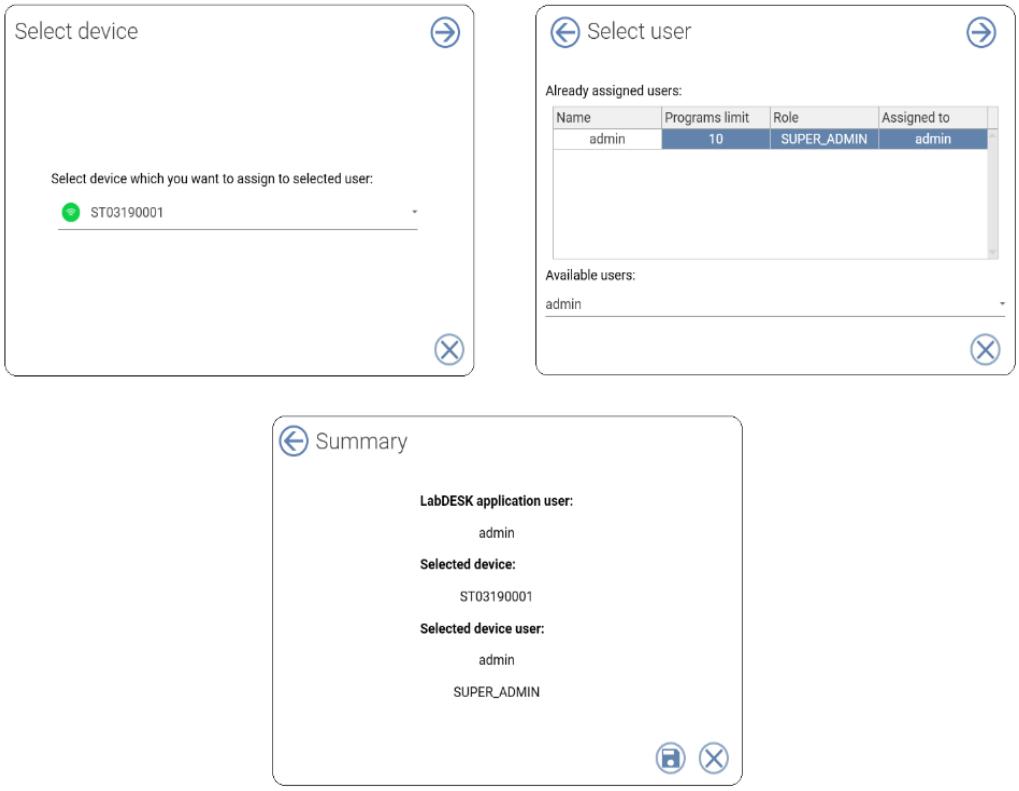


Figure 13 – Connecting to a unit

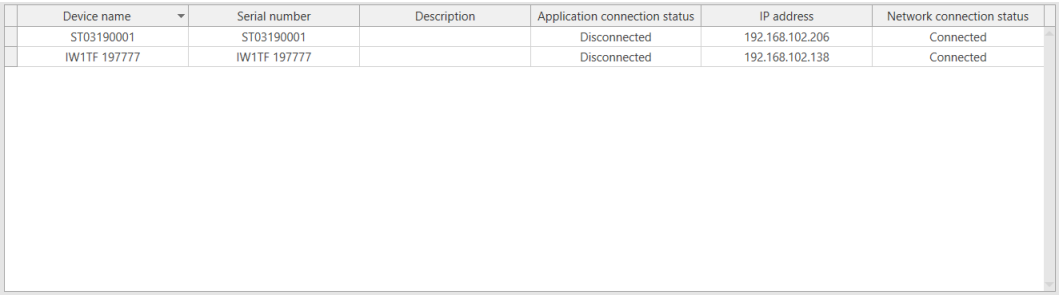
5.10 Manage units

Panel (Figure 14) enables managing the units available in the application (maximum 10 units).

The following top menu is available:

Refresh – refreshes the list of available units,
Add device – adds a new unit to the Premium Control application (the unit must be running and connected to the network),
Edit device – enables to change the address or description of the unit,
Remove device – removes the unit from the list.

Device name – the name given in the unit (Main menu -> Panel),
Description – the description of the unit provided in the Premium Control application during adding or edition of the unit,
Application connection status – „Connected" means that the Premium Control application is currently connected to the unit,
IP address – IP address of the unit,
Network connection status – „Connected" means that the unit is running and connected to the network.



Device name	Serial number	Description	Application connection status	IP address	Network connection status
ST03190001	ST03190001		Disconnected	192.168.102.206	Connected
IW1TF 197777	IW1TF 197777		Disconnected	192.168.102.138	Connected

Figure 14 – Managing units

5.10.1. Adding a unit

1) Click „**add a unit**" on the toolbar.
2) Enter IP address and description (optionally) in the new window (Figure 15).
3) Click **„confirm"** to add the unit to the list.
4) After adding, a wizard will be displayed that facilitates linking the logged user with the user on the unit (Figure 16).

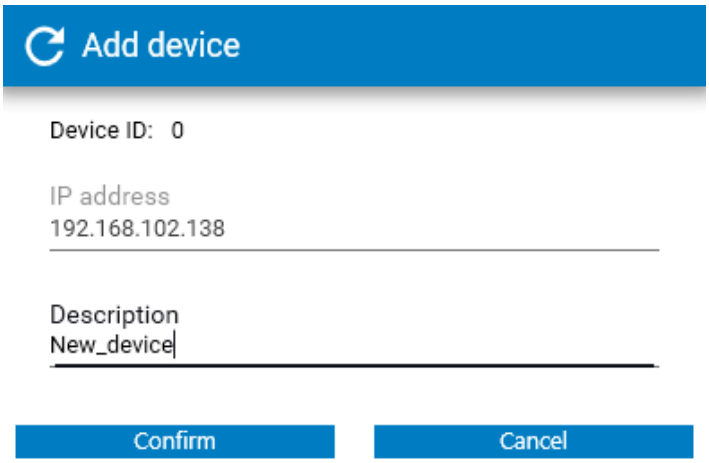


Figure 15 – Adding a unit

Figure 16 – Assigning a user

5.10.2. Connecting to the unit

When you're done assigning the unit to the user, go to the connection with the previously assigned unit. To do this, click on "**Devices**" on the right side of the menu (you can do this from each panel). During the first call you will be asked to enter the login and password from the unit.

This tab can be permanently attached to the program using this icon .

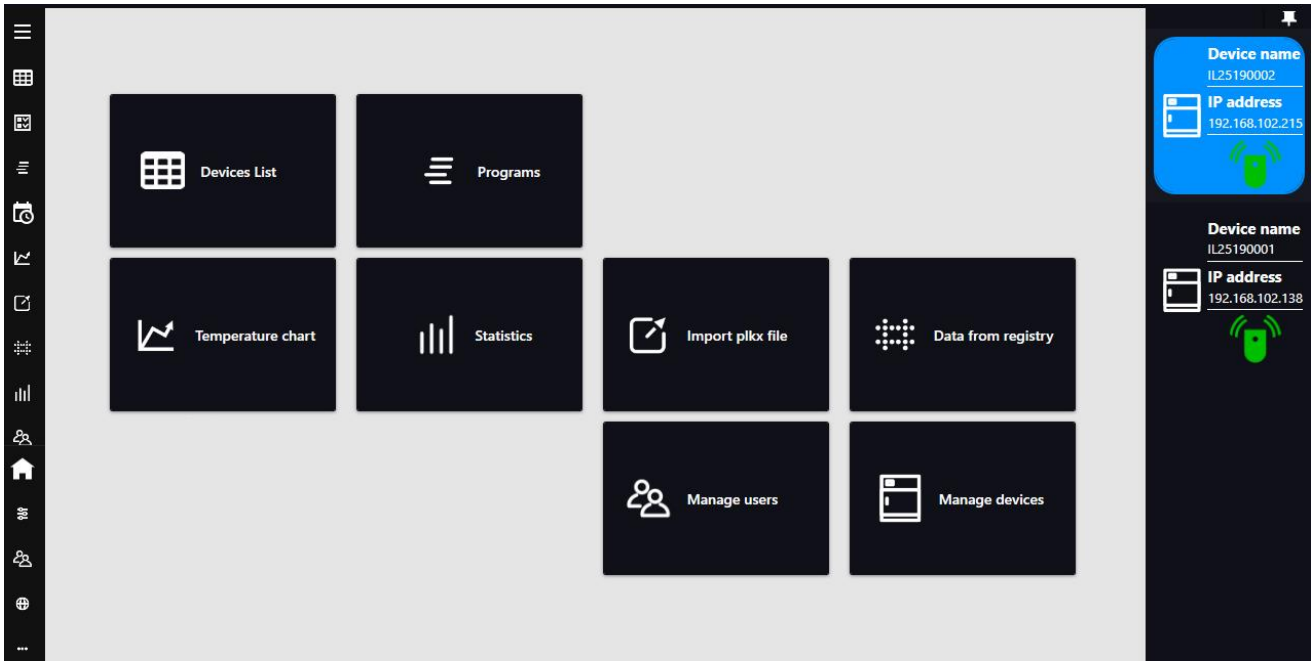


Figure 17 – Connecting to the unit

To connect with a selected unit click this icon . When the program connects with the unit, the icon will change into green .

5.11 Settings and information

The settings and information bar can be found in the lower left corner in the main menu.

displays main menu.

displays application settings panel.

displays information about the logged user (name, surname, assigned role).

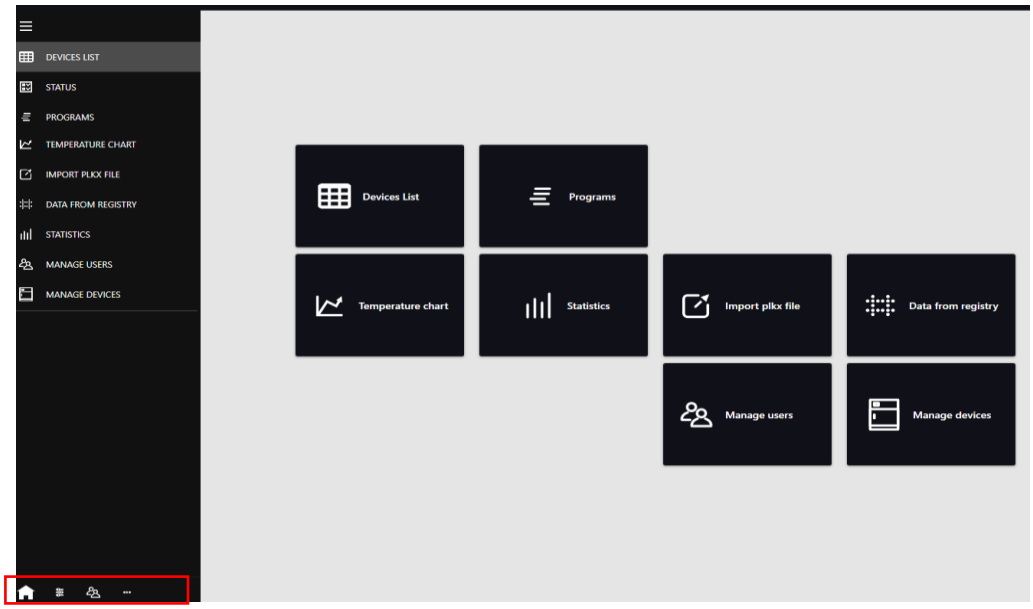


Figure 18 - Menu

5.11.1. Settings

Allows you to change Premium Control settings. Here you can set the following things:

- Program language,
- Enable or disable deletion of data after disconnection with the unit,
- Start window – the default window displayed after running the application,
- Database –database file, default location after installation: C:\PremiumControlDataBase,
- The frequency of unit temperature refresh,
- Device record storing – a folder in which data registered on a regular basis or downloaded from the unit will be saved.

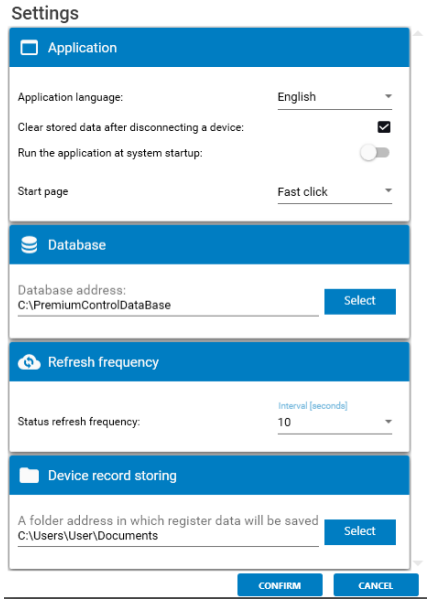


Figure 19 – Settings

5.12 Sterilisation (applies only to CO_2 incubators)

The CO_2 incubator is equipped with an automatically controlled hot-air sterilization program. To start the program, browse the STERILIZATION program from the programs list and press the PLAY button in the top menu.

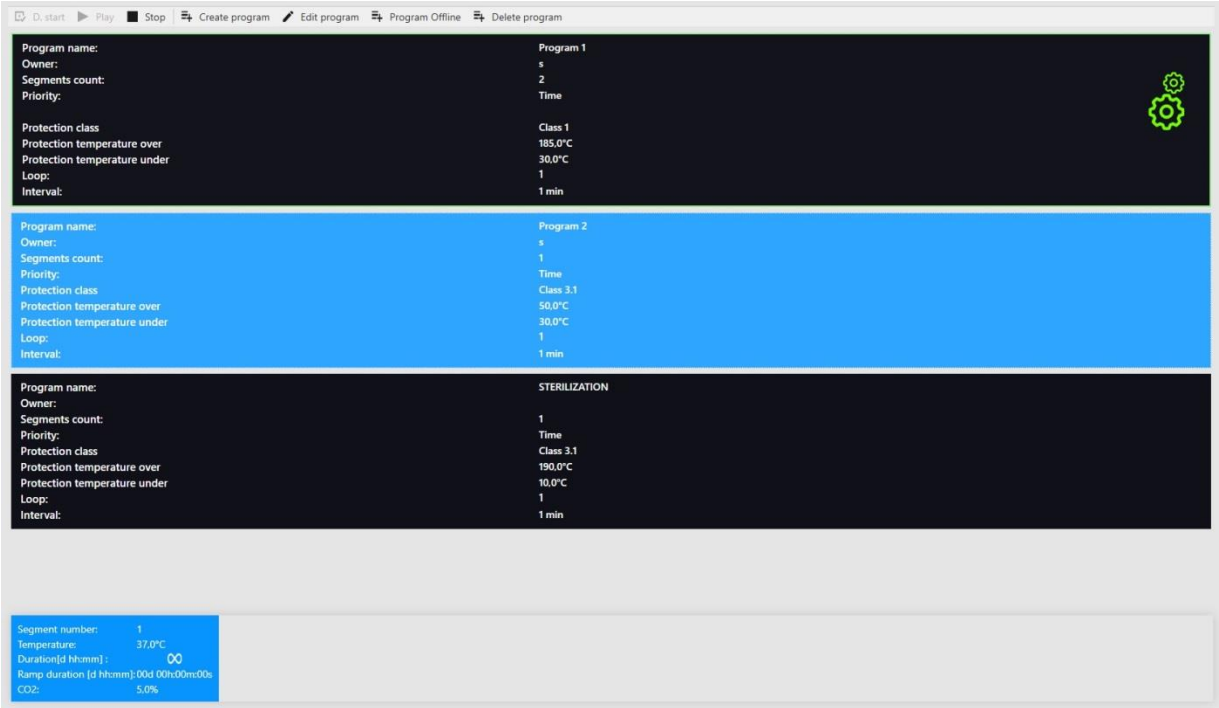


Figure 20 – Program list

Before running the sterilization program a confirmation prompt is displayed *(Figure 21)*. Make sure that the water pan was emptied and all samples were removed from the chamber. Confirm the message. The program starts immediately or when the program delay time is over.

Figure 21 – Confirmation prompt

The effective sterilization process (heating up and holding) is automatically finished after holding 180°C inside the chamber for 2 hours. The information of successfully performed process pops up on the controller display *(Figure 22)*.

Figure 12 – Successful sterilization

The total cycle of sterilization finishes when the temperture inside the chamber cools down to 37°C. Then, the information of completed sterilization occurs *(Figure 23)*. Confirm the message.

Figure 23 – Sterilization completed

If during the heating up and holding phase:

- the program is stopped,
- the external door is opened,
- the unit is turned off with the main power switch or in case of power failure,
- the unit's error occurs,

the sterilization is prematurely terminated. The information of incompletely performed sterilization pops up on the display *(Figure 24)* and the event is registered in the Event log ("Sterilization failed").

If the sterilization cycle was terminated prematurely, the germs inside the chamber might not be killed totally. It is recommended to repeat the sterilization.

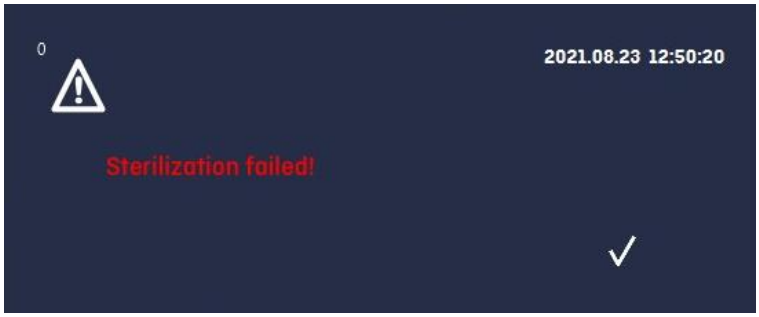


Figure 24 - Sterilization failed

If the door is open when the sterilization program is starting, the program won't start. The information of cancelled sterilization pops up on the controller display *(Figure 25)*. Close the door and run the sterilization program again.

Figure 25 – Sterilization start cancelled

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