

Centrometal

HEATING TECHNIQUE

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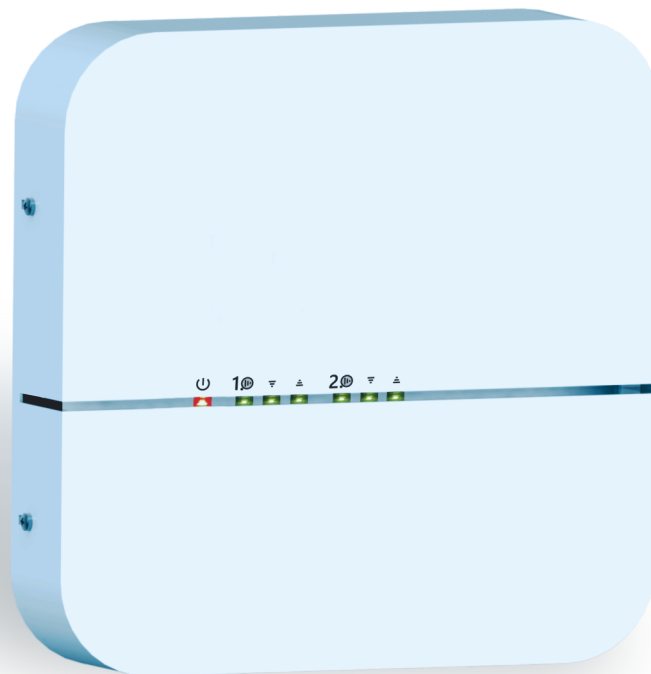
ENG

Technical instructions

for installation and using the additional equipment

CM2K module for
mixing circuits / DHW / Recirculation

for connection to: PelTec, Cm Pelet-set Touch, BioTec-L
BioTec Plus, EKO-CKS P Unit, EKO-CKS Multi Plus



CM2K

Content

Thank you for purchasing our product

Please read these technical instructions carefully so that you can use and adjust the CM2K module as easily as possible. After reading the instructions, place them in an appropriate place where you can easily find them if you need further information about the operation and use of the CM2K module.

Please make sure that the CM2K module has been disposed of in order to reduce environmental pollution.

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TECHNICAL CHARACTERISTICS

| | |
|-------------------------|--|
| Inputs | 4x sensor inputs (NTC5K, 2x main flow/DHW, 1x outdoor, 1x reserve) |
| | 2x room corrector inputs CSK |
| | 2x digital inputs (CSK-Touch: wire) |
| | 1x power supply 12VDC |
| Outputs | 4x semi-conductor (triac / 2x pump, 2x mixing valve actuator) |
| Output power | Triacs (4x) max. 200W |
| Power supply | 195-265V/50Hz |
| Max. power | |
| Electricity consumption | |
| Conductor cross section | 1-1,5 mm ² |
| IP protection | IP20 according EN |
| Environment temperature | -10 do 40°C |
| CM2K mass | 715 g |
| Housing material | Flame resistant ABS (UL94V-0) |
| CM2K dimensions | (WxHxD) 200x40x200 |

Sensor technical characteristics

| | |
|------------------------------|--------------------------|
| Sensor type | NTC5K |
| Min. conductor cross section | 0,5-0,75 mm ² |
| Max. conductor length | 50 m |

EC Declaration

The product complies with the requirements of the current rules and is marked CE.
The EC Declaration of Conformity is available on request, contact the manufacturer.



BASIC PARTS

INPUTS:

- 4x sensor input (NTC5K sensor - 2x main flow/DHW, 1x outdoor sensor, 1x reserve)
- 2x room corrector CSK input (possibility of connection with 3 or 2 wires - connection depends of boiler type and boiler firmware)
- 2x digital input (CSK-Touch: wire)
- 1x 12VDC

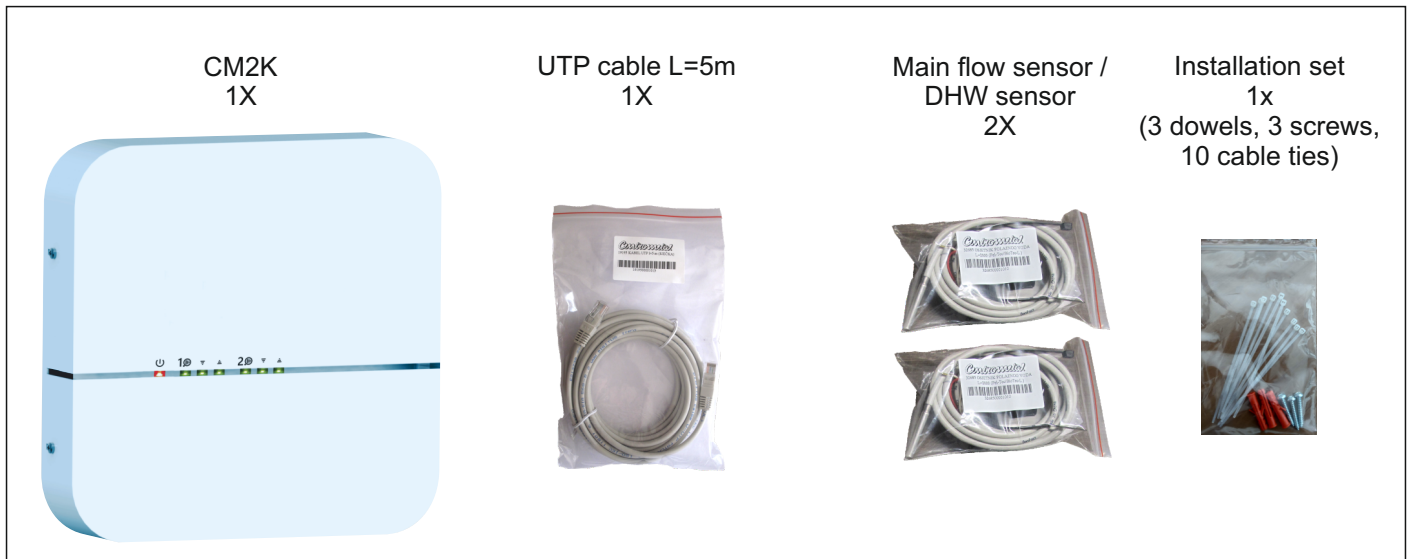
OUTPUTS:

- 2x standard (230V) - pump
- 2x standard (230V) - actuator
- 2x UTP connector for connecting to the boiler and connection more CM2K modules or other additional equipment (WiFi box...)

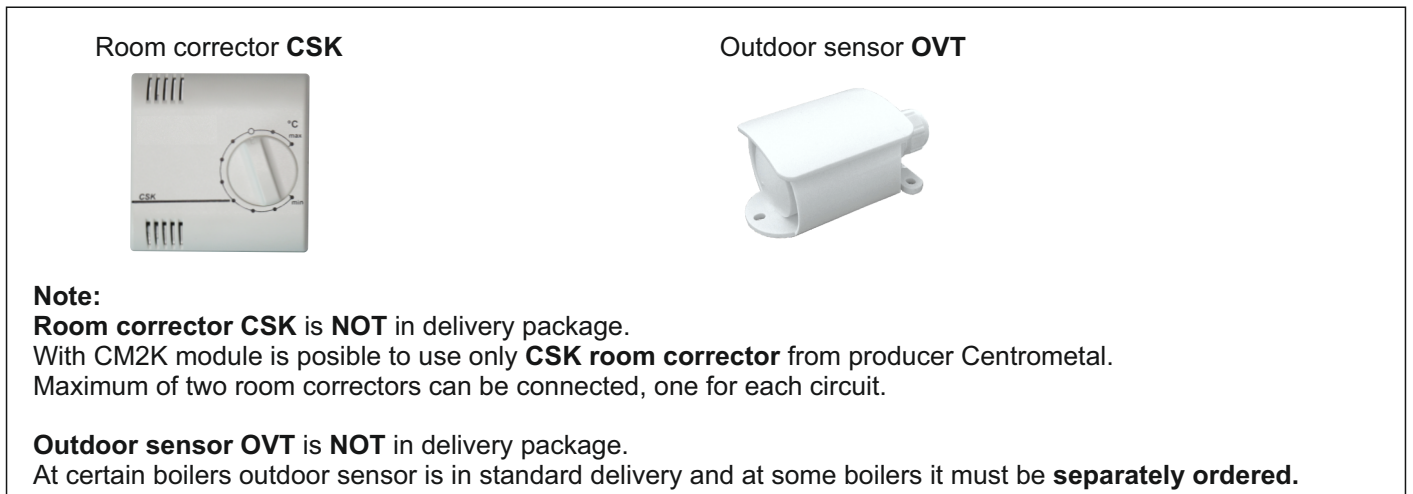
DELIVERY in cardboard box:

- 1x CM2K module
- 2x NTC5K (main flow sensor / DHW sensor)
- 1x UTP cable 5m
- 3x dowel+screw
- 10x cable ties
- 1x technical instructions

DELIVERY CONTENT

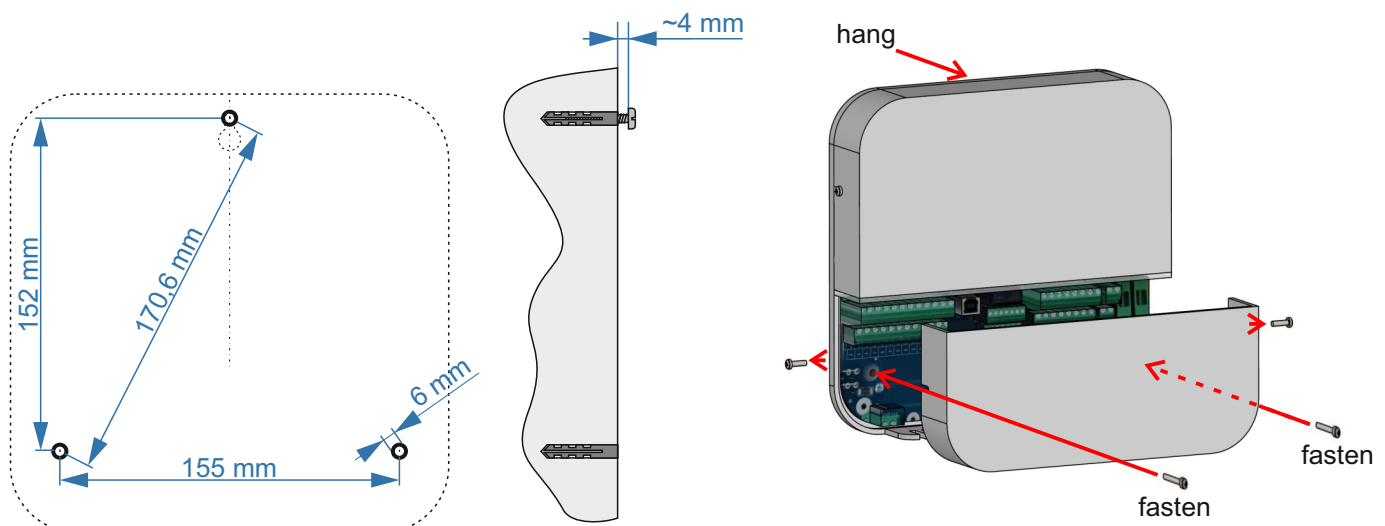


ADDITIONAL EQUIPMENT FOR CM2K



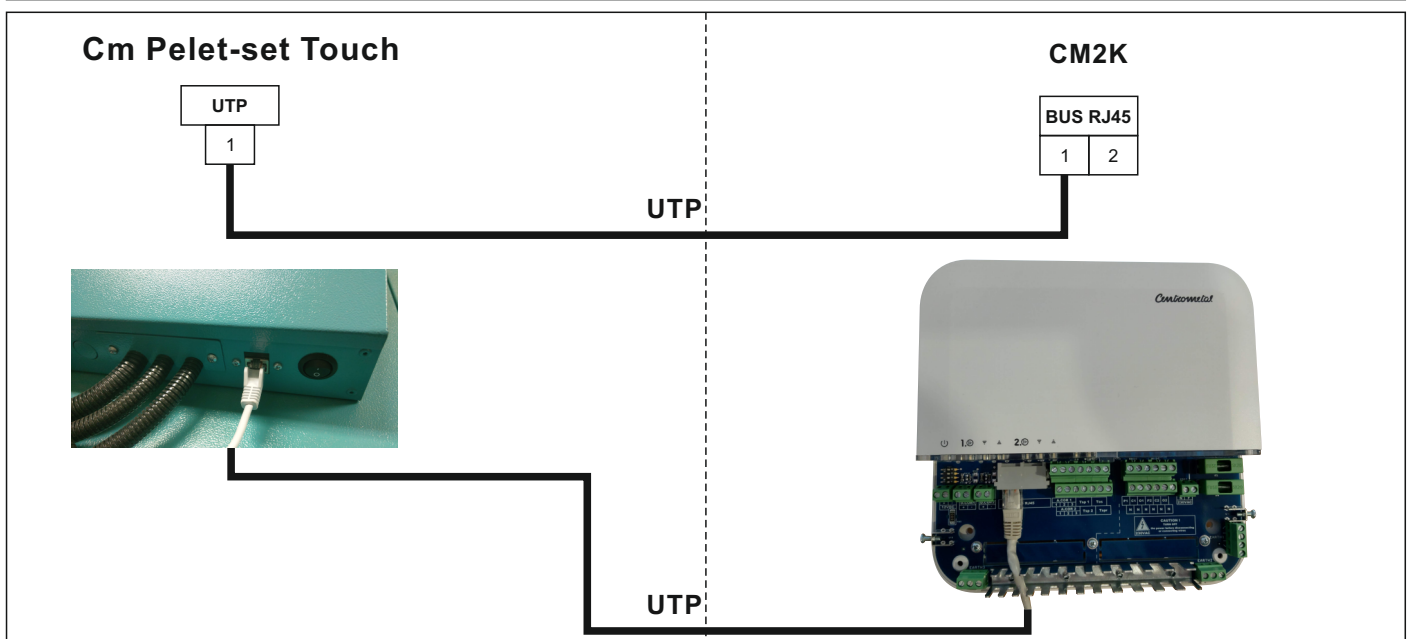
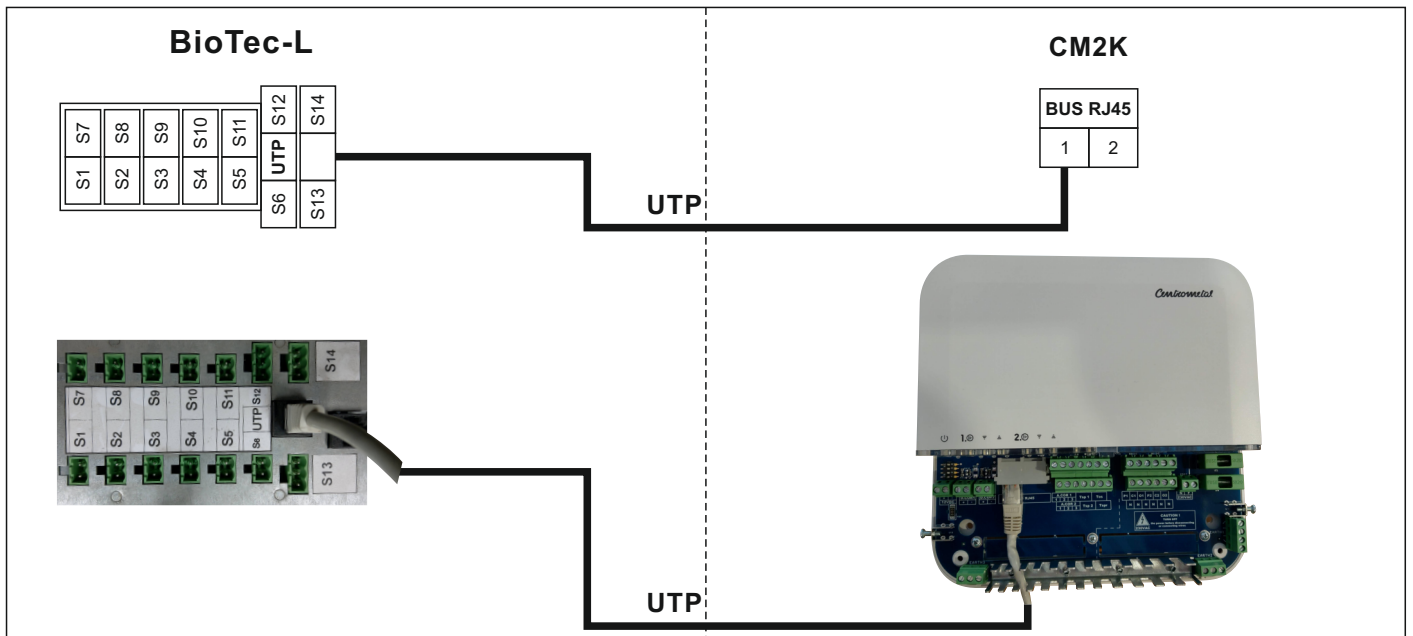
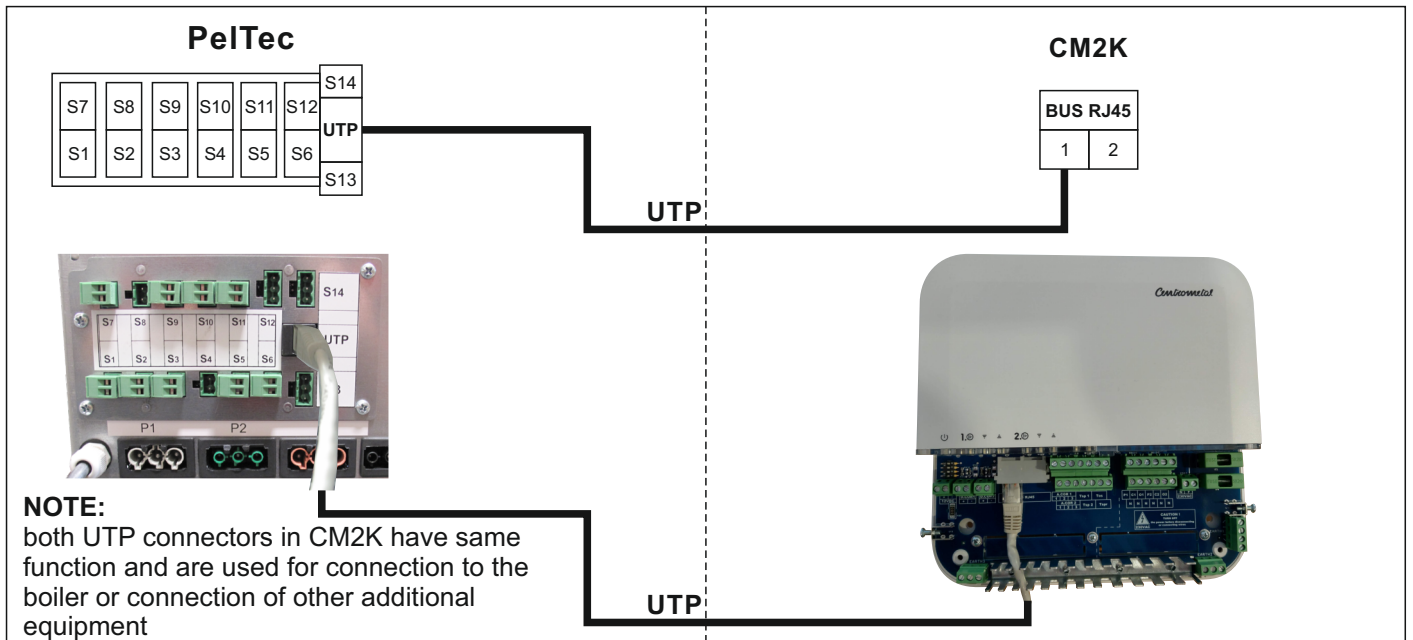
INSTALLATION

CM2K module is installed on the wall or on hard surface in closed dry room.
According the picture below, drill 3 holes 6 mm x 35-45 mm.
Insert 3 dowels into drilled holes and install screw into upper dowel with ca. 4 mm distance from the wall.

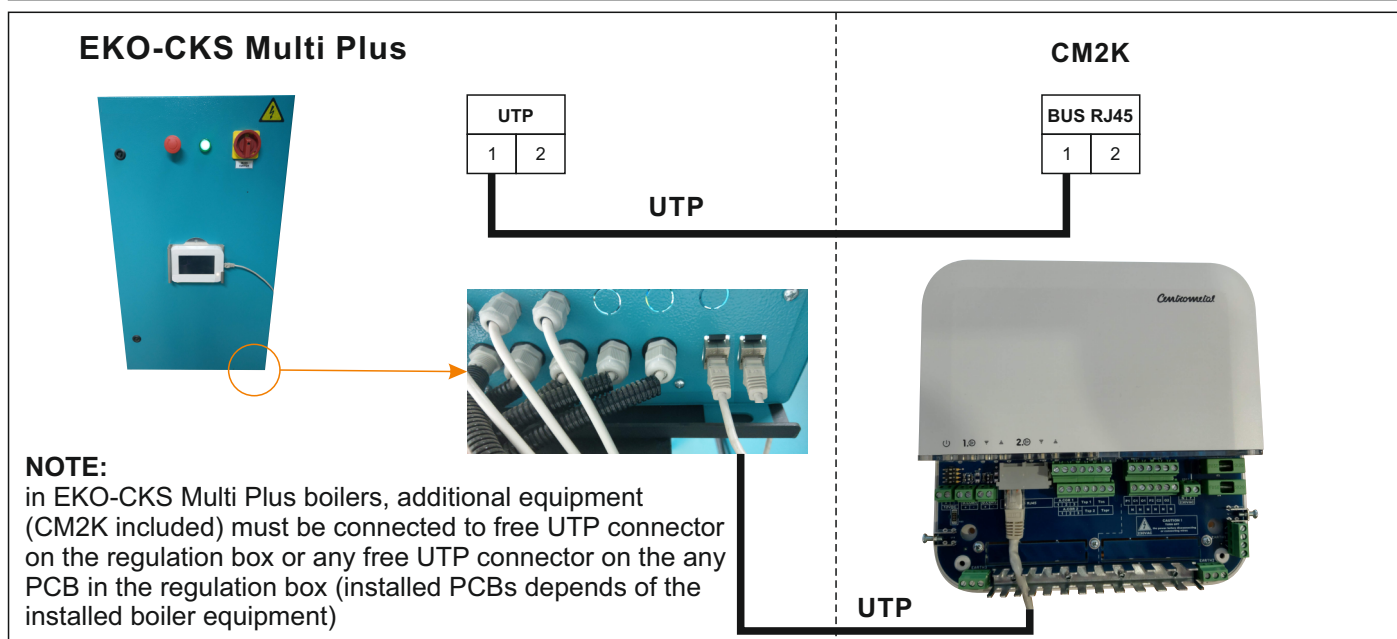
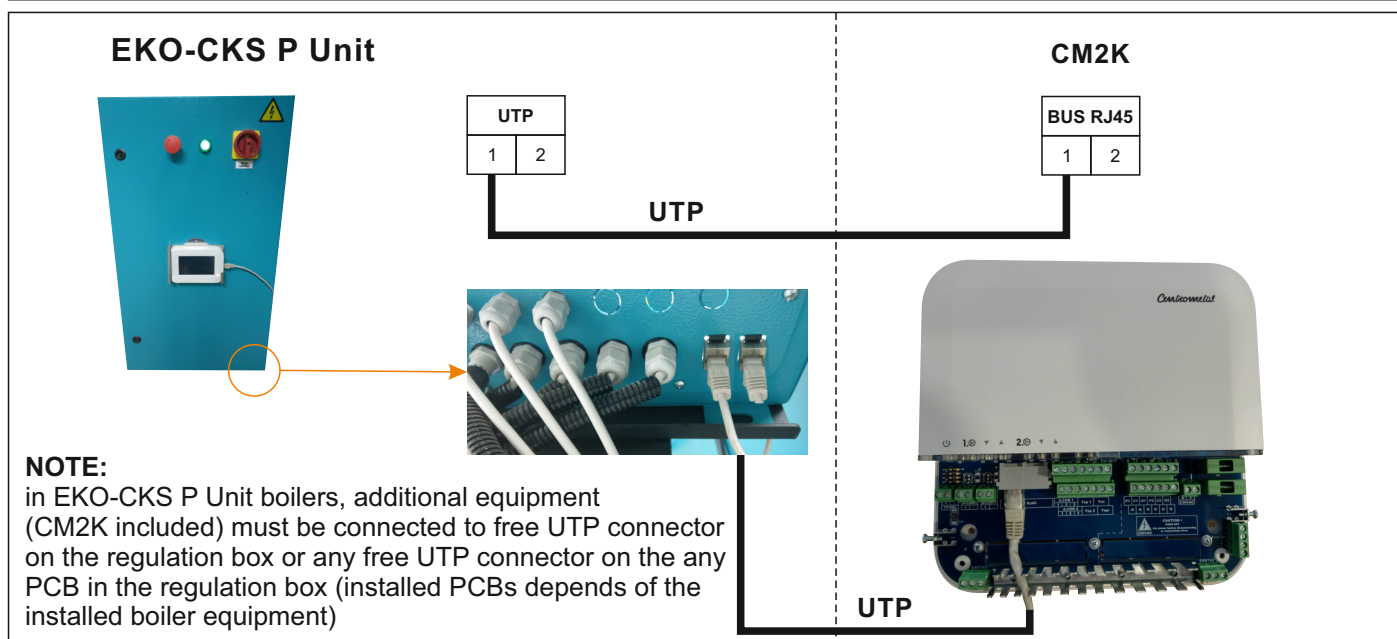
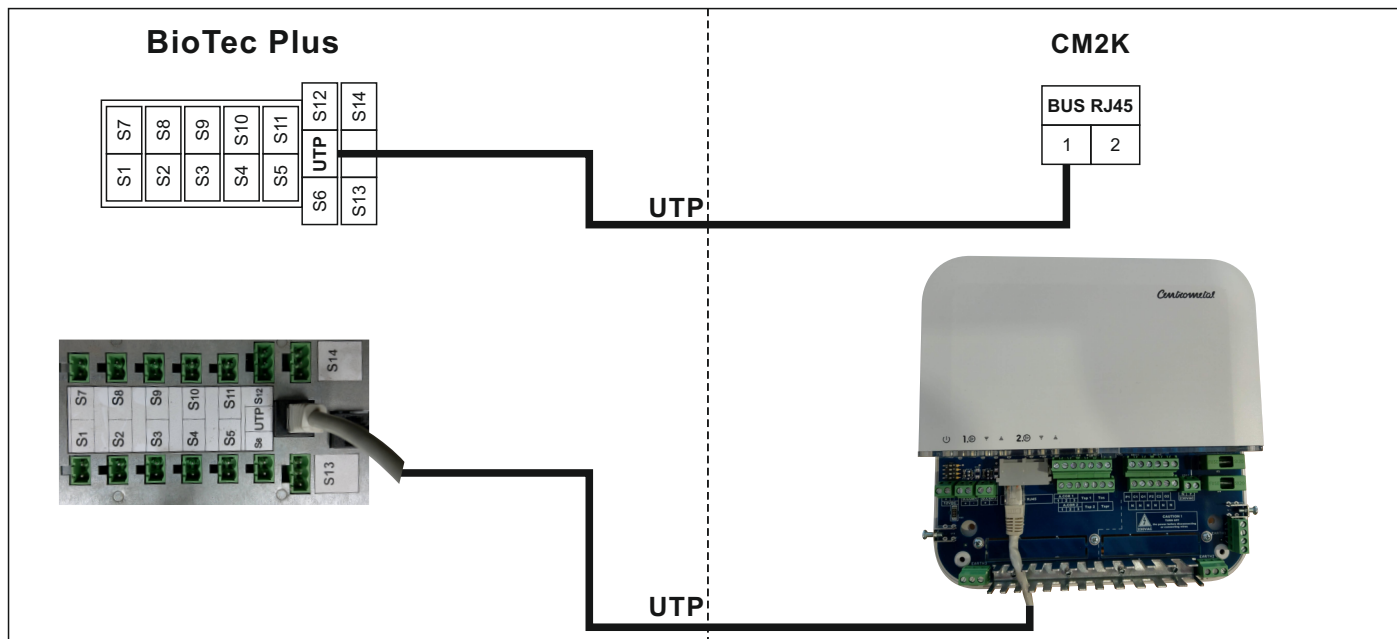


Remove lower cover, hang the module on the upper screw, install lower screws to the mounting holes in the module and in the wall. Fasten the screws to secure the module to the wall.

CONNECTION TO THE BOILER




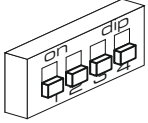
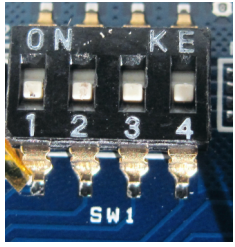
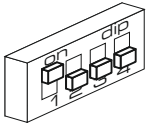
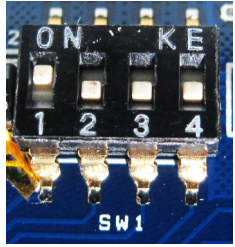
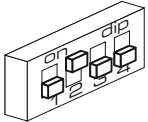
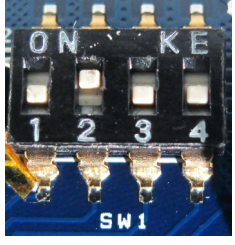
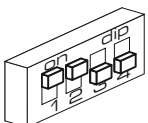
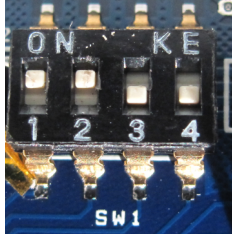
CONNECTION TO THE BOILER

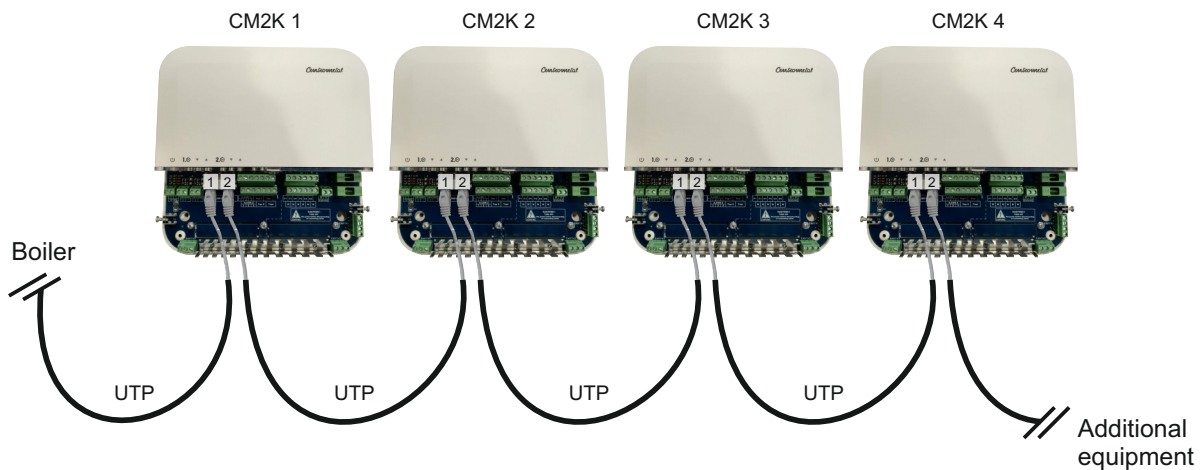


CONNECTING MORE CM2K MODULES

Maximum up to 4 modules can be connected. Connection is done by UTP cables. UTP input/output 1 or UTP input/output 2 can be used (they both have same function, free connector is used for connection of next module or for connection of other additional equipment).

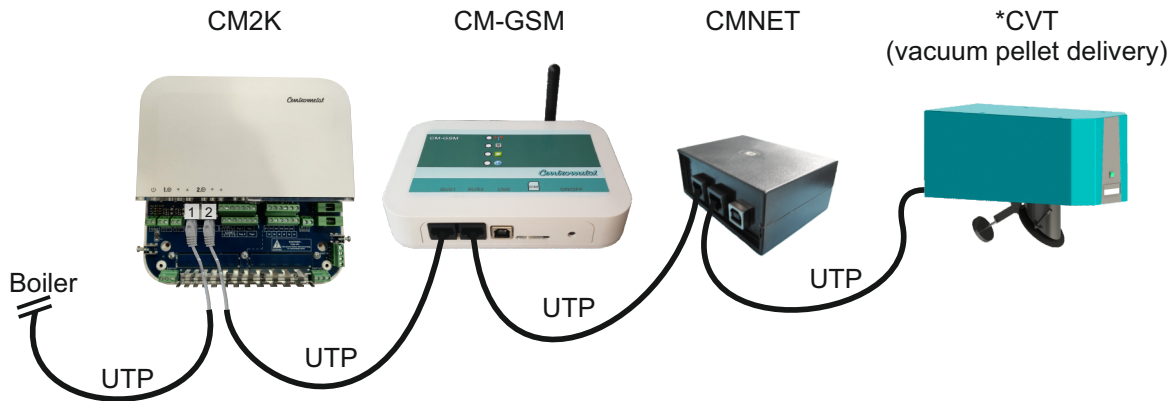
If there are more than 1 CM2K installed, in every module is necessary to set device address (0-4). Address is set by SW switches on the PCB of the module (below casing cover of the connection clamps). Order of connection is not important, circuit number is defined by module address with SW switches (every module must have different address, i.e. two devices can't have same address).

| | |
|---|---|
|  <p>Position of the SW switches</p> | <p>Device 1</p> <p>1 - off 2 - off 3 - off 4 - off</p>   |
| | <p>Device 2</p> <p>1 - on 2 - off 3 - off 4 - off</p>   |
| | <p>Device 3</p> <p>1 - off 2 - on 3 - off 4 - off</p>   |
| | <p>Device 4</p> <p>1 - on 2 - on 3 - off 4 - off</p>   |

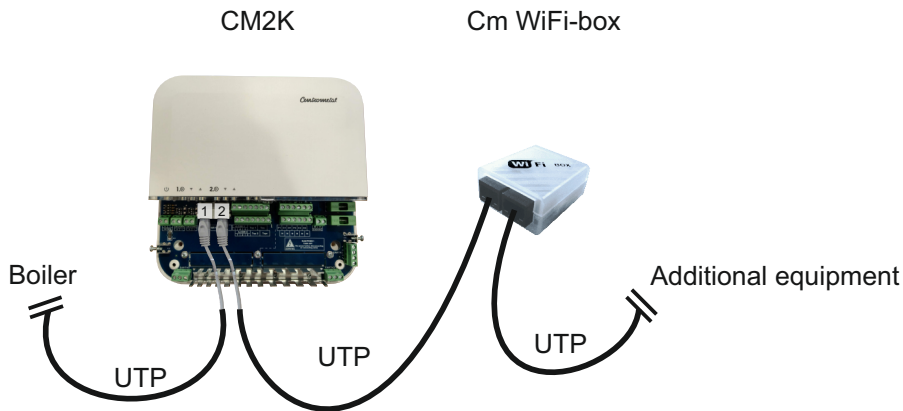


CONNECTION TO THE OTHER DEVICES (CM WIFI-BOX, CM-GSM, CMNET, CVT)

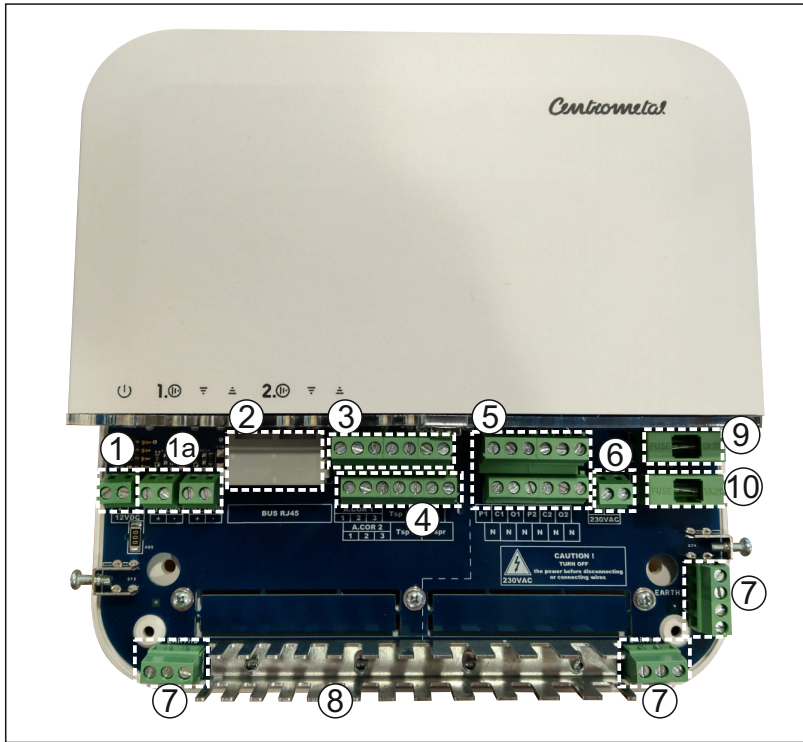
Connection is done with UTP cables. Every additional equipment device has 2 UTP connectors (except vacuum turbine CVT). Both UTP connector have same function. Devices can be connected in any order except vacuum turbine, which must be always last in order because it has only 1 UTP connector.



*If vacuum turbine CVT is connected, it must be connected last in order

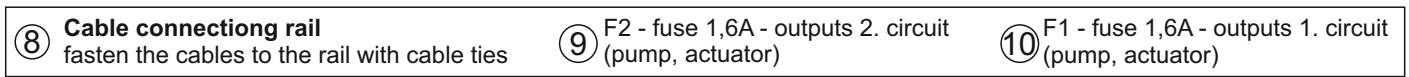
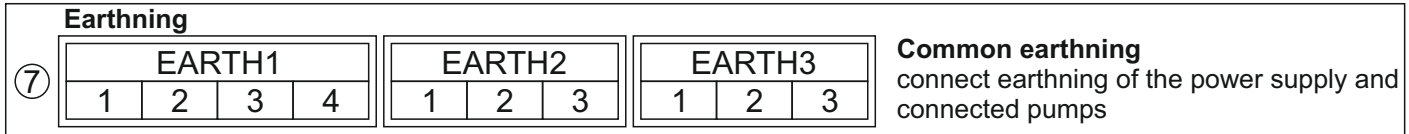
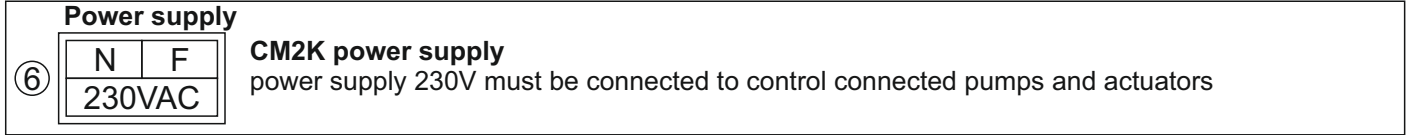
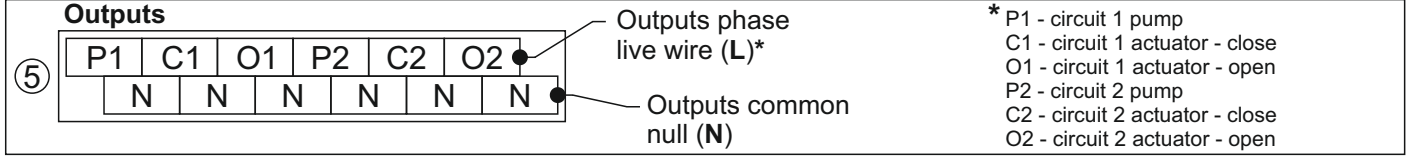
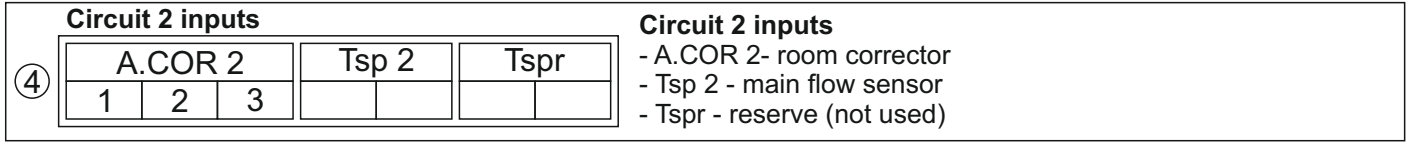
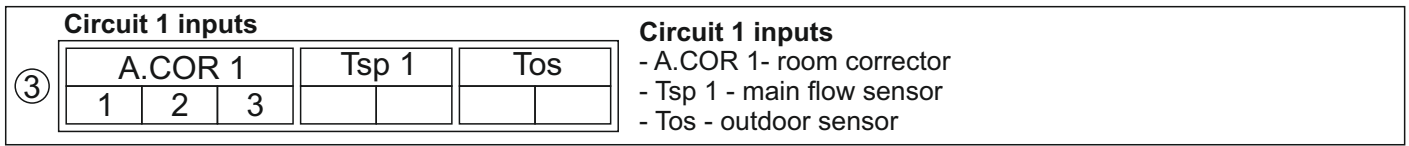
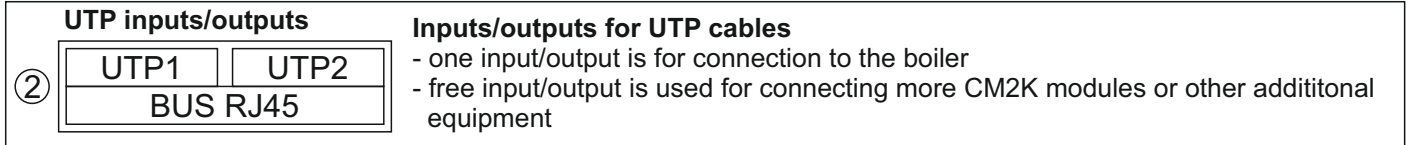
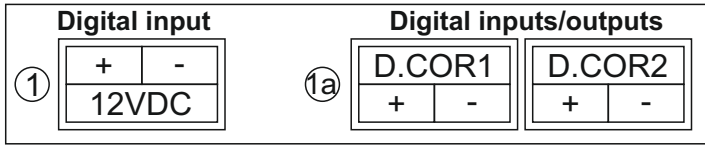


INPUTS AND OUTPUTS CONNECTION

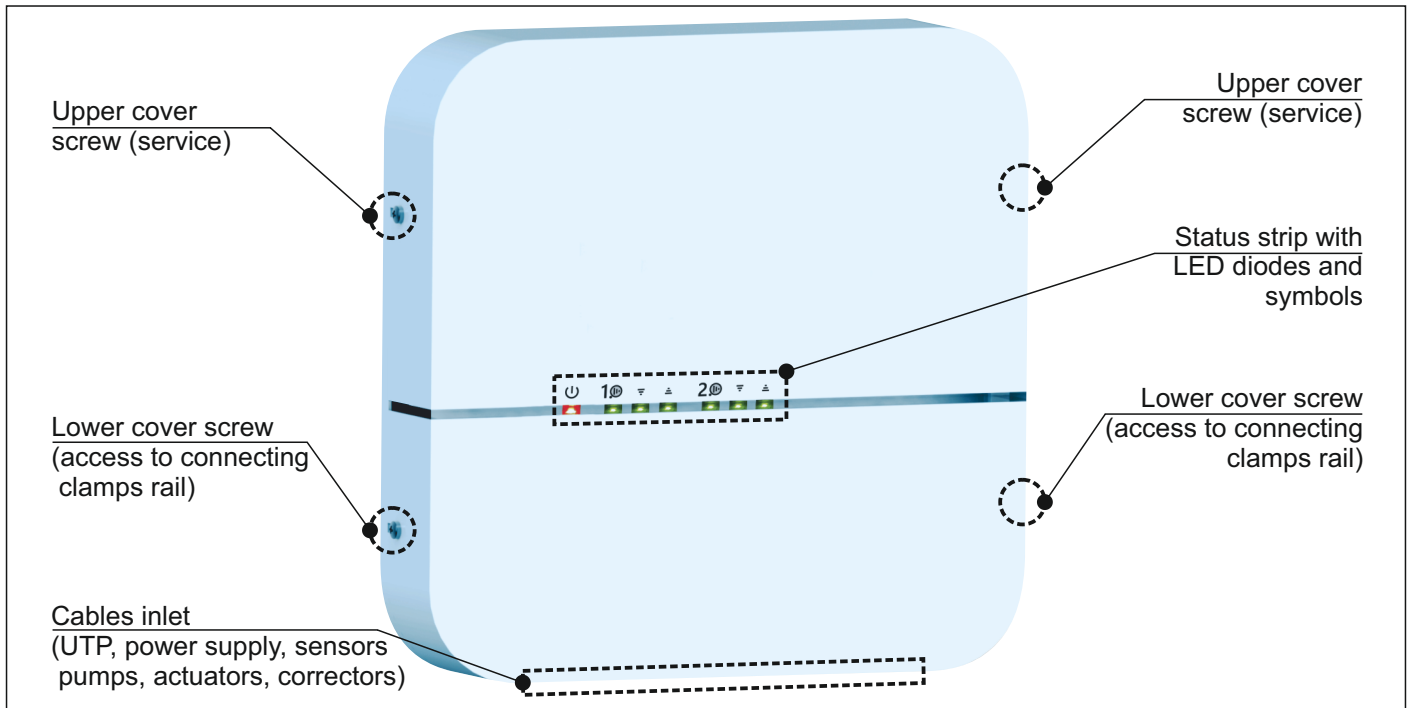


1 - Input (12V DC):
 CSK-Touch digital room corrector uses power supply via input / output D.COR when the boiler main switch is ON.
OPTION - input (12V DC): can be used to power CSK-Touch digital room corrector when the boiler main switch is OFF (additional equipment: 12V DC rectifier)

1a - Digital inputs/outputs:
 Wired connection of CSK-Touch digital room corrector. It is not important which output each individual corrector is connected to, but pay attention to have the corrector terminal "+" connected to the CM2K terminal "+" and vice versa, to have the corrector terminal "-" connected to the CM2K terminal "-".



LED INDICATORS



- **status** - indicates CM2K status; connection with the boiler is ok, boiler is connected to the power supply and main switch is on - doesn't mean that CM2K is connected to the power supply (230V)
- **pump** - indicates working of the pump (LED ON = pump works / LED OFF = pump doesn't work)
- **actuator - close** (LED ON = actuator closes / LED OFF = actuator doesn't work)
- **actuator - open** (LED ON = actuator opens / LED OFF = actuator doesn't work)

NOTE: actuator open and actuator close can't work at the same time

EXAMPLES OF LED INDICATORS

1.

1. Circuit
All devices are off

2.

2. Circuit
All devices are off

1.

1. Circuit
Pump works; Mixing valve closes

2.

2. Circuit
Pump works; Mixing valve closes

1.

1. Circuit
Pump works; Mixing valve opens

2.

2. Circuit
Pump works; Mixing valve opens

CONFIGURATIONS



For configuration schemes and view on the screen look in the boiler regulation technical instructions.

Boiler configuration must be set in the **Installation** menu (under PIN).

PeITec - CM2K can be enabled only in schemes that have accumulation tank or hydraulic crossover.

BioTec-L - CM2K can be enabled in all configurations (schemes) because all have accumulation tank.

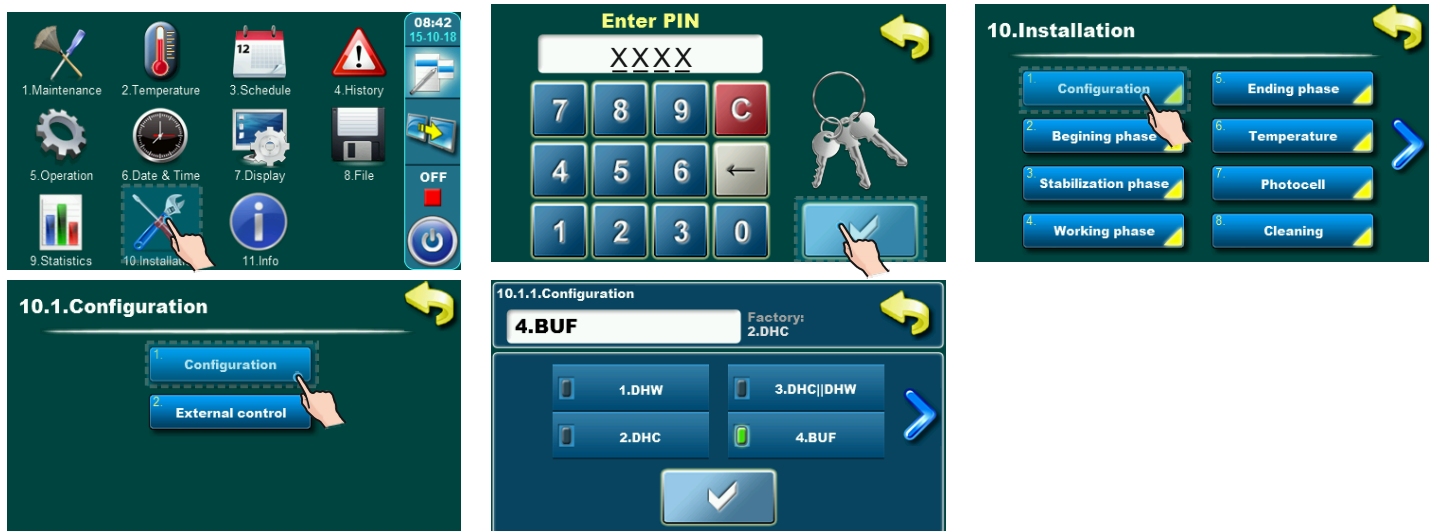
Cm Pelet-set Touch - CM2K can be enabled in all configurations (schemes) because all have accumulation tank, hydraulic crossover or 4-way mixing valve.

BioTec Plus - CM2K can be enabled in all configurations (schemes) because all have accumulation tank.

EKO-CKS P Unit - CM2K can be enabled in all configurations (schemes) because all have accumulation tank or hydraulic crossover.

EKO-CKS Multi Plus - CM2K can be enabled in all configurations (schemes) because all have accumulation tank.

Example of scheme selecting: **PeITec**



ENABLING CM2K

CM2K can be enabled only by authorized serviceman in **Installation** menu (PIN). By selecting number of CM2K modules, module is enabled (every module can control 2 circuits). By selecting number of CM2K modules, option REGULATOR/CM2K is enabled (activated) and in the main menu Regulator/CM2K menu icon will be displayed. User can use this menu to monitor and adjust some of the parameters.



Display order and ordinal numbers in regulation don't have to match exactly to this instructions. They depend of the configuration, firmware version and setting of the regulation.

NOTE: after enabling any of CM2K modules (2 circuits), for each circuit, heating type must be set / selected. After selecting the heating type, it is enabled and settings for it are displayed.

Example of enabling CM2K: PelTec (1xCM2K - 2 circuits)

The process for enabling CM2K on a PelTec device involves the following steps:

- Access the main menu and select **10. Installation**.
- In the **10. Installation** menu, select **18. CM2K**.
- In the **10.18. CM2K** sub-menu, select **Circuit count**.
- In the **10.18.1. Circuit count** screen, select **1xCM2K (2 circ.)**.
- Confirm the selection to enable CM2K.

The final state shows **CM2K enabled** in the main menu.

Example of enabling CM2K: BioTec-L (2xCM2K - 4 circuits)

The process for enabling CM2K on a BioTec-L device involves the following steps:

- Access the main menu and select **9. Installation**.
- In the **9. Installation** menu, select **18. Heating circuit**.
- In the **9.20. Regulator** sub-menu, select **No. of circuit**.
- In the **9.20.1. No. of circuit** screen, select **2xCM2K (4 circ.)**.
- Confirm the selection to enable CM2K.

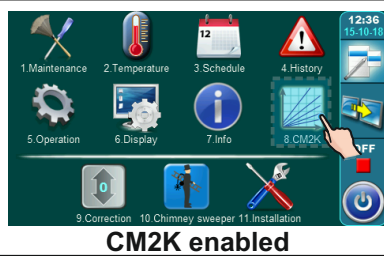
The final state shows **CM2K enabled** in the main menu.

Example of enabling CM2K: Cm Pelet-set Touch (1xCM2K - 2 circuits)

The process for enabling CM2K on a Cm Pelet-set Touch device involves the following steps:

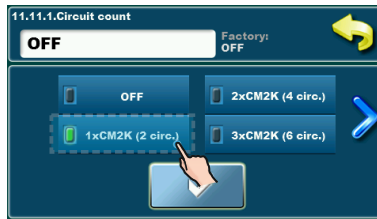
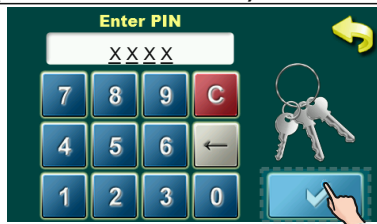
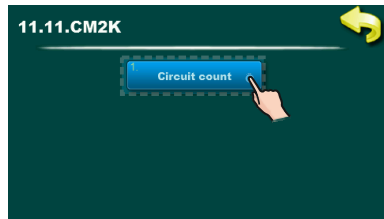
- Access the main menu and select **11. Installation**.
- In the **11. Installation** menu, select **Commissioning**.
- In the **11.5. Commissioning** sub-menu, select **Configuration**.
- In the **11.5.1. Configuration** sub-menu, select **Additional equipment**.
- In the **11.5.1.2. Additional equipment** screen, select **Regulator(1xCM2K)**.
- Confirm the selection to enable CM2K.

The final state shows **CM2K enabled** in the main menu.



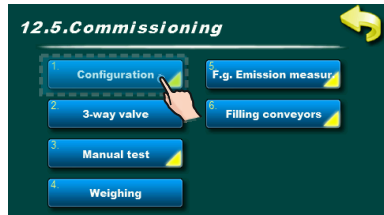
CM2K enabled

Example of enabling CM2K: BioTec Plus (1xCM2K - 2 circuits)

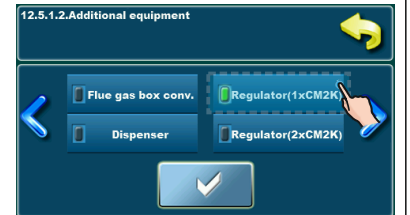
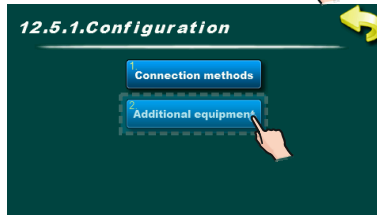
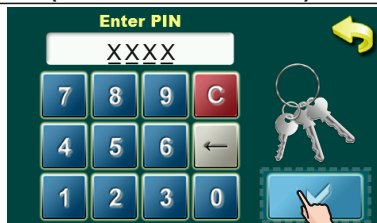


CM2K enabled

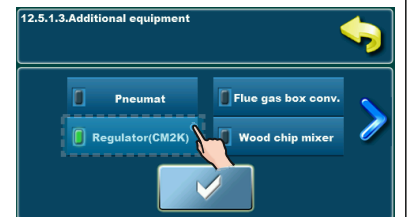
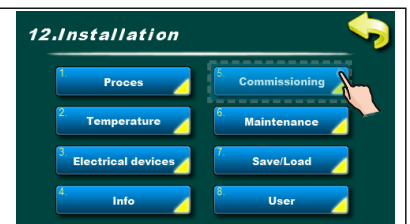
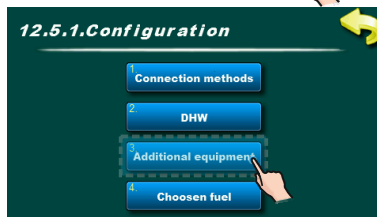
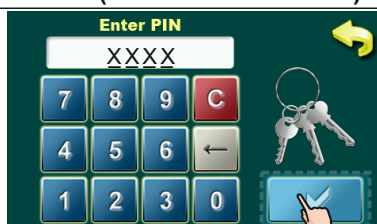
Example of enabling CM2K: EKO-CKS P Unit (1xCM2K - 2 circuits)



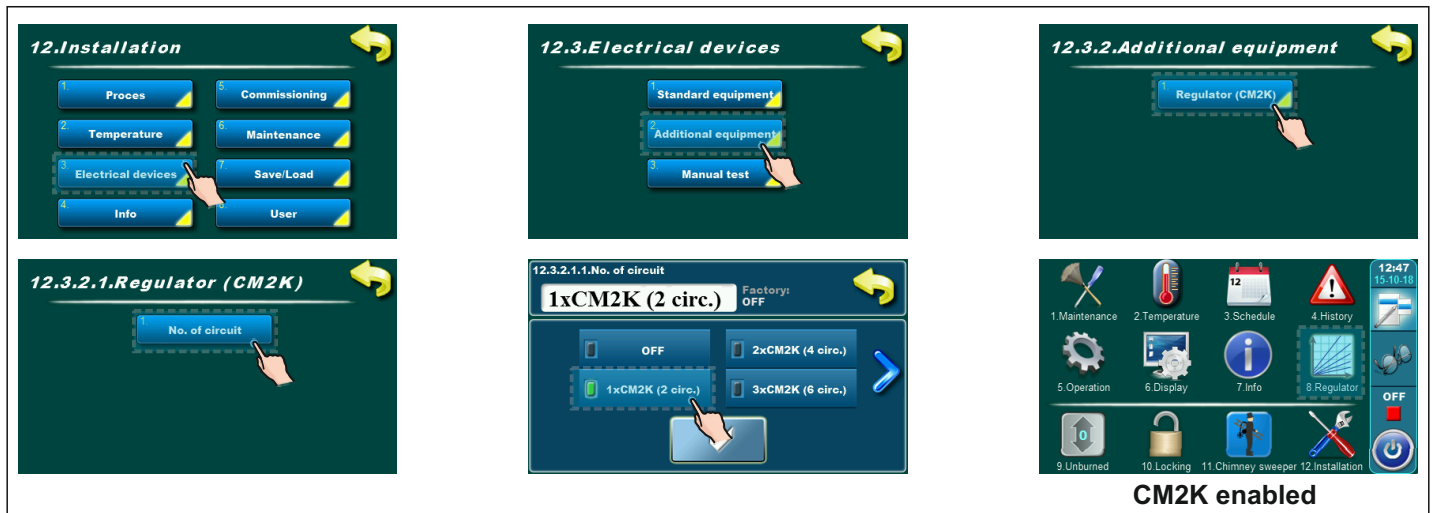
CM2K enabled



Example of enabling CM2K: EKO-CKS Multi Plus (1xCM2K - 2 circuits)



Enabling CM2K, Manual test

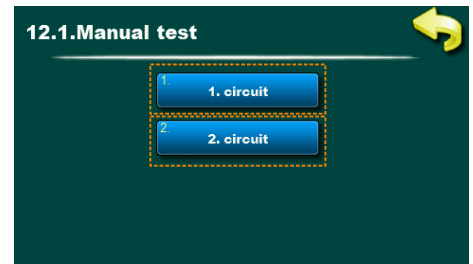
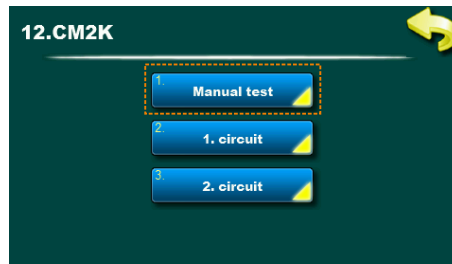


CM2K enabled

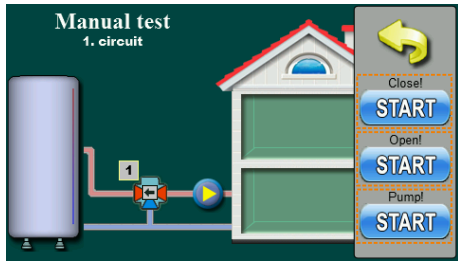
MANUAL TEST

In this menu all outputs to the connected devices (pumps/actuators) can be manually tested. Every circuit can be separately tested. Depending of the number of enabled circuits, manual test for each circuit is shown.

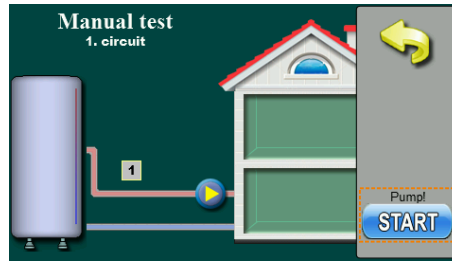
Example of manual test menu:



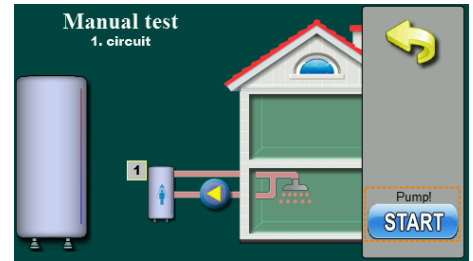
Example:
Radiator/Floor/Const. temp.



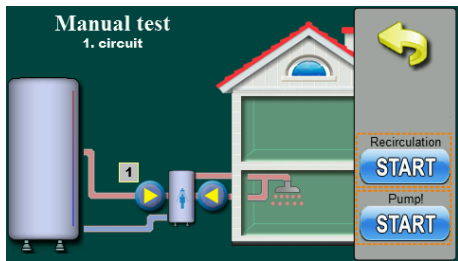
Example:
DHW



Example:
Recirculation



Example:
DHW + Recirculation

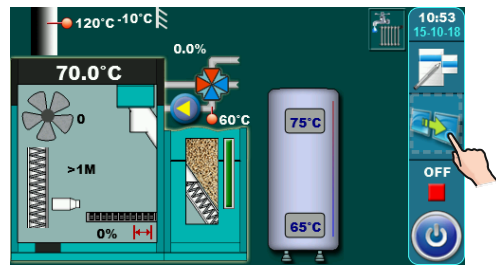


NOTE:

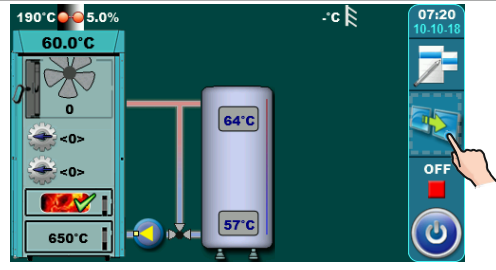
- By pressing the button START, pump or valve actuator opening/closing is started and this button becomes STOP
- by pressing the button STOP, pump or valve actuator opening/closing is stopped and this button becomes START
- with this options, demand for work of output/connected device is manually started, but is necessary to check if outputs is actually activated and device is actually working.

CM2K VIEW SELECTION

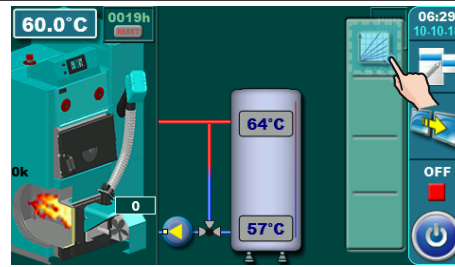
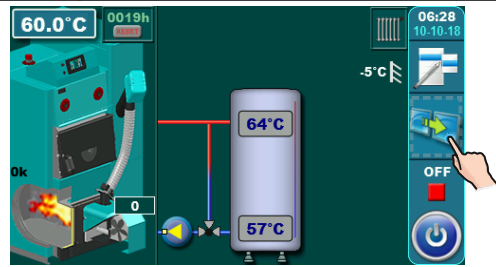
Example: PelTec



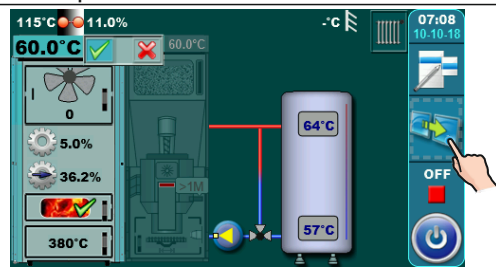
Example: BioTec-L



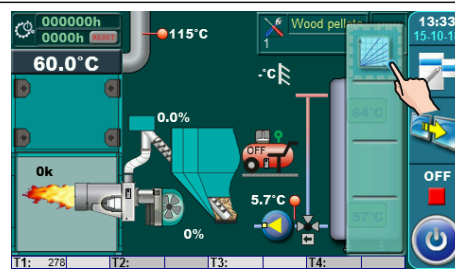
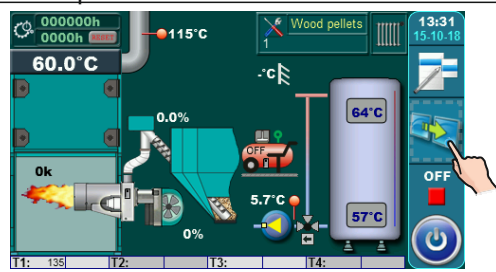
Example: Cm Pelet-set Touch



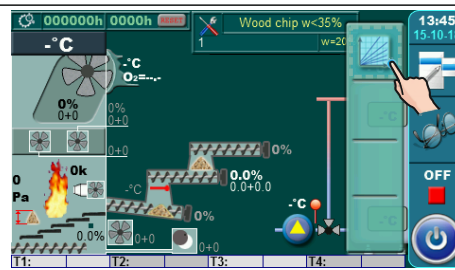
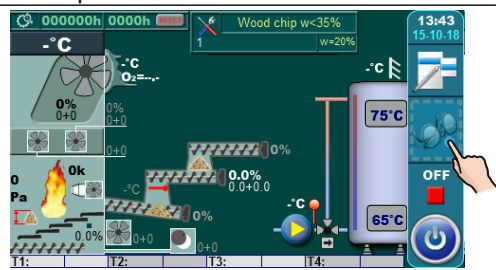
Example: BioTec Plus



Example: EKO-CKS P Unit



Example: EKO-CKS Multi Plus



CM2K VIEW

Enabled circuits and their settings can be monitored (circuit type: Radiators / Floor / Const. temp. / DHW / Recirculation / DHW+Recirculation; set temperatures; measured temperatures; pumps working; actuator working; schedules; working mode...).

To access CM2K options view press button or on main screen (there will be new window with CM2K view or tools menu with additional button for CM2K view and other additional equipment buttons). To go back to main menu press button or to cycle between views press . If there is more than one CM2K installed, in CM2K view, views between CM2K modules (circles) can be changed by pressing buttons (in one view is one CM2K, i.e. two circuits).

CIRCUIT TYPES AND CM2K VIEW SYMBOLS

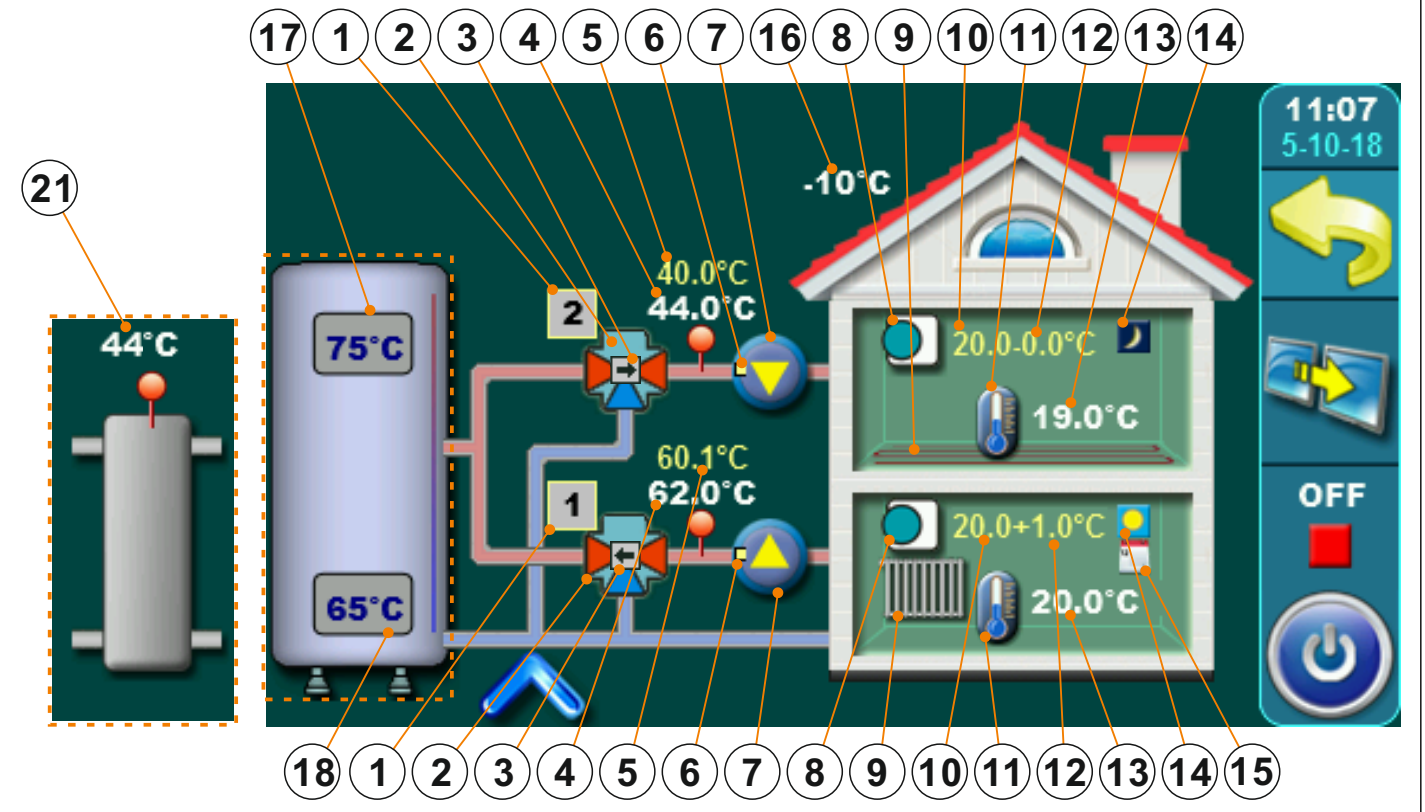
The image displays three sequential screenshots of the CM2K interface, each showing a different circuit view. Each view includes a house diagram with temperature readings and a control panel on the right with buttons for navigation and power.

- Top View (11:07):** Shows Circuit 2 (Floor heating room corrector night mode) and Circuit 1 (Radiator heating room corrector day mode). The house diagram shows floor temperatures of 40.0°C and 44.0°C, and radiator temperatures of 60.1°C and 62.0°C. The control panel shows a yellow arrow button, a blue arrow button, an 'OFF' button, and a power button.
- Middle View (10:54):** Shows Circuit 4 (DHW) and Circuit 3 (Constant temp. room corrector day mode). The house diagram shows a DHW tank at 55°C and radiator temperatures of 60.0°C and 62.0°C. The control panel shows a yellow arrow button, a blue arrow button, an 'OFF' button, and a power button.
- Bottom View (10:48):** Shows Circuit 6 (DHW + Recirculation recirculation schedule (work enabled)) and Circuit 5 (Recirculation recirculation schedule (work disabled)). The house diagram shows a DHW tank at 44°C and radiator temperatures of 60.0°C and 62.0°C. The control panel shows a yellow arrow button, a blue arrow button, an 'OFF' button, and a power button.

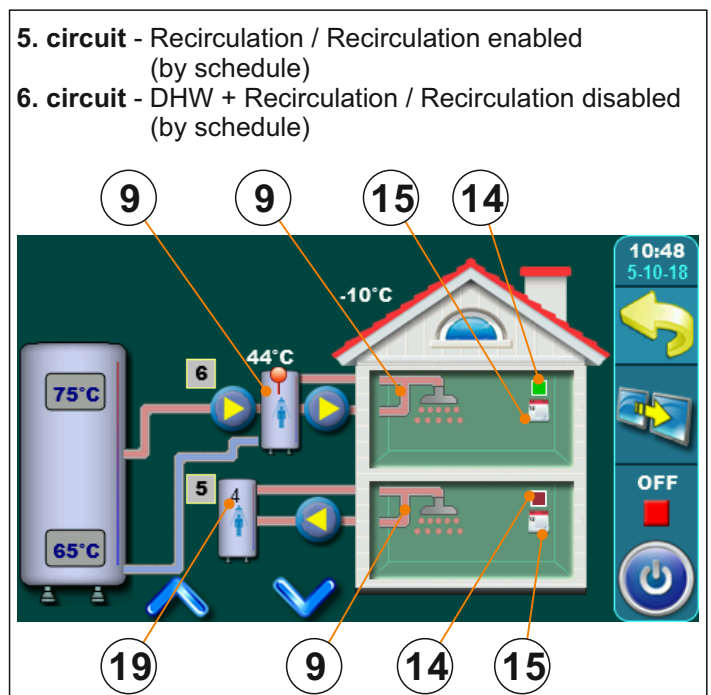
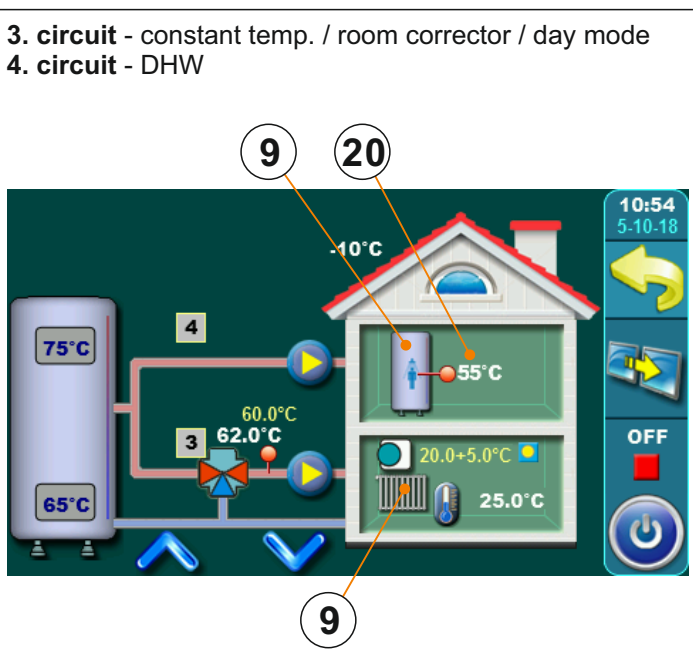
Labels on the right side of the screenshots identify the circuits and their settings. A label at the bottom points to the navigation buttons, indicating 'Circuits view change'.

CM2K VIEW EXAMPLES

1. circuit - radiator heating / room corrector / day mode (with schedule)
2. circuit - floor heating / room corrector / night mode



- | | |
|---|--|
| <ol style="list-style-type: none"> 1 - circuit number 2 - mixing valve with actuator 3 - actuator working indication 4 - measured main flow temp. 5 - calculated main flow temp. 6 - pump working demand indication 7 - pump 8 - room corrector 9 - circle heating type 10 - set room temp. 11 - room temp. indication | <ol style="list-style-type: none"> 12 - corrector correction setting 13 - measured room temp. 14 - work mode indication 15 - schedule/work enabled/disabled indication 16 - measured outdoor temp. 17 - measured accumulation tank upper temp. 18 - measured accumulation tank lower temp. 19 - indication of DHW tank with enabled recirculation 20 - measured DHW (domestic hot water) tank temp. 21 - measured CRO (hydraulic cross over) temp. |
|---|--|

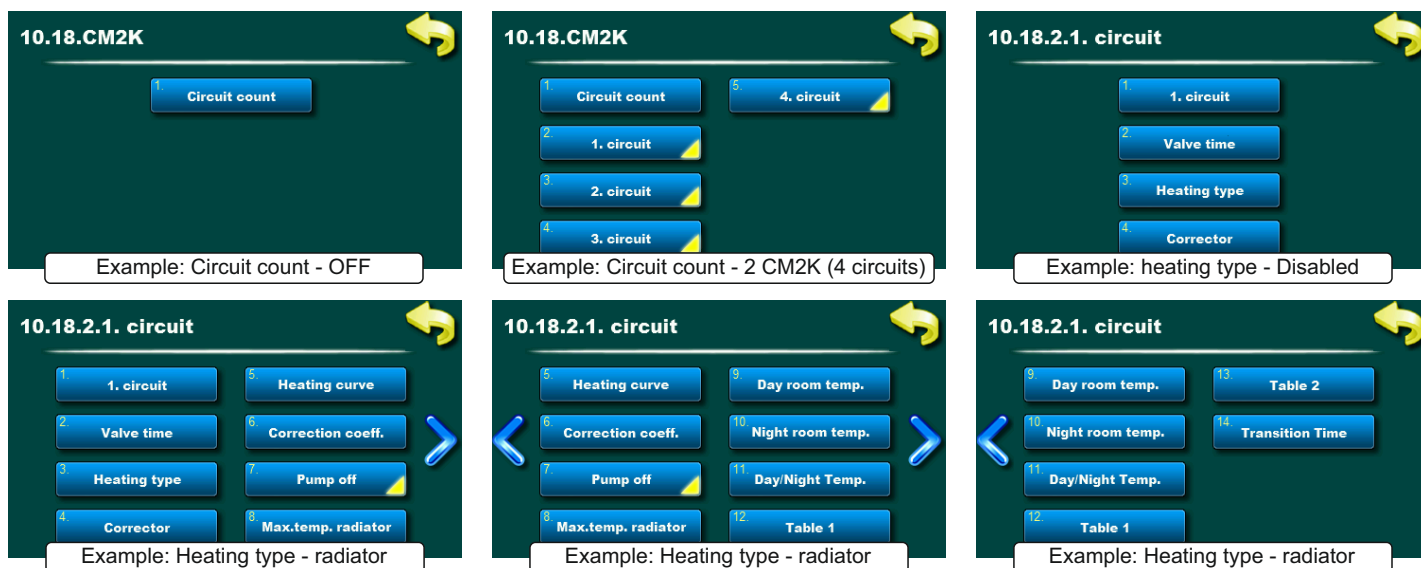


CM2K SETTINGS

Initial settings of working parameters for CM2K must be done by authorized serviceman because enabling and certain setting parameters are under **Installation** menu (PIN). After enabling the CM2K module in main menu new icon (menu) **Regulation/CM2K** will appear. Under this menu user can adjust certain parameters of heating circuits.

NOTE: every parameter will be marked by who can set it, serviceman and user **(S/K)** or only serviceman **(S)**.

EXAMPLE: view of the **CM2K** menu under **Installation** menu (PIN) - parameters with **(S/K)** indication will be displayed also under **CM2K** menu in the main menu so user can adjust them.



DESCRIPTION AND PARAMETERS VALUE

NOTES:

- at initial circle view (before adjusting) are only certain parameters shown (X. circuit / Valve time / Heating type / Corrector). After adjusting the circuit heating type, in main menu of heating circuit, other parameters will be shown according the set heating type.
- certain parameters depends of the boiler type to which CM2K is installed and view is set according to this. Because of this, certain parameters are shown or not shown depending of the boiler type.

Circuit count **(S)**

This parameter is used to set number of CM2K modules i.e. number of circuits (1 CM2K = 2 circuits)

By selecting and confirmation of CM2K modules this parameter is enabled.



| Factory setting | setting | |
|-----------------|---------|------------------------|
| Circuit count | OFF | OFF / 1xCM2K... 4xCM2K |

X. circuit **(S/K)** (in this example - 1. circuit)

Enable and disable heating circuit.

This parameter is used to enable or disable heating circuit (set parameters are stored).

| Factory setting | setting | |
|-----------------|---------|--------|
| 1. circuit | ON | OFF/ON |

Valve time **(S/K)**

Setting the mixing valve actuator speed.

This parameter is used for setting the speed of the mixing valve actuator speed for work of 90° (open/close). It must be set according the installed mixing valve actuator speed.

| Factory setting | setting | |
|-----------------|---------|------------|
| Valve time | 120 sec | 10-300 sec |

Heating type **(S)**

Setting the heating circuit type.

This parameter is used to set heating circuit type. After setting the heating circuit type, in main menu of the circuit, other setting parameters will be shown according the heating circuit type.



| Factory setting | setting | |
|-----------------|----------|--|
| Heating type | Disabled | Disabled/Radiator/Floor/Constant temp./DHW*/Pool/Recirculation/DHW+Recirculation |

* NOT USED

Corrector (S)

Setting for room corrector (installed/not installed) and room corrector type.

This parameter is used for setting if room corrector is used or not, room corrector type and its connection type.



| Factory setting | setting | |
|-----------------|---------|--|
| Corrector | OFF | OFF / ON / Room temp. (2 wires) / Reg. control |

Correcto ON: standard connection of Centrometal **CSK** room corrector with 3 wires (measuring and view of the room temp. and corrector correction).

Room temp. (2 wires): connection of Centrometal **CKS** room corrector with 2 wires (measuring and view of the room temp., without corrector correction) - in case only 2 wires are installed.

Reg. control: regulating the circuit pump with external heating circuit regulation and its demand for heating and pump working.

DESCRIPTION AND PARAMETERS VALUE BY HEATING CIRCUIT TYPE

RADIATOR / FLOOR

X. circuit (S/K) - see page 18

Valve time (S) - see page 18

Heating type (S) - see page 18

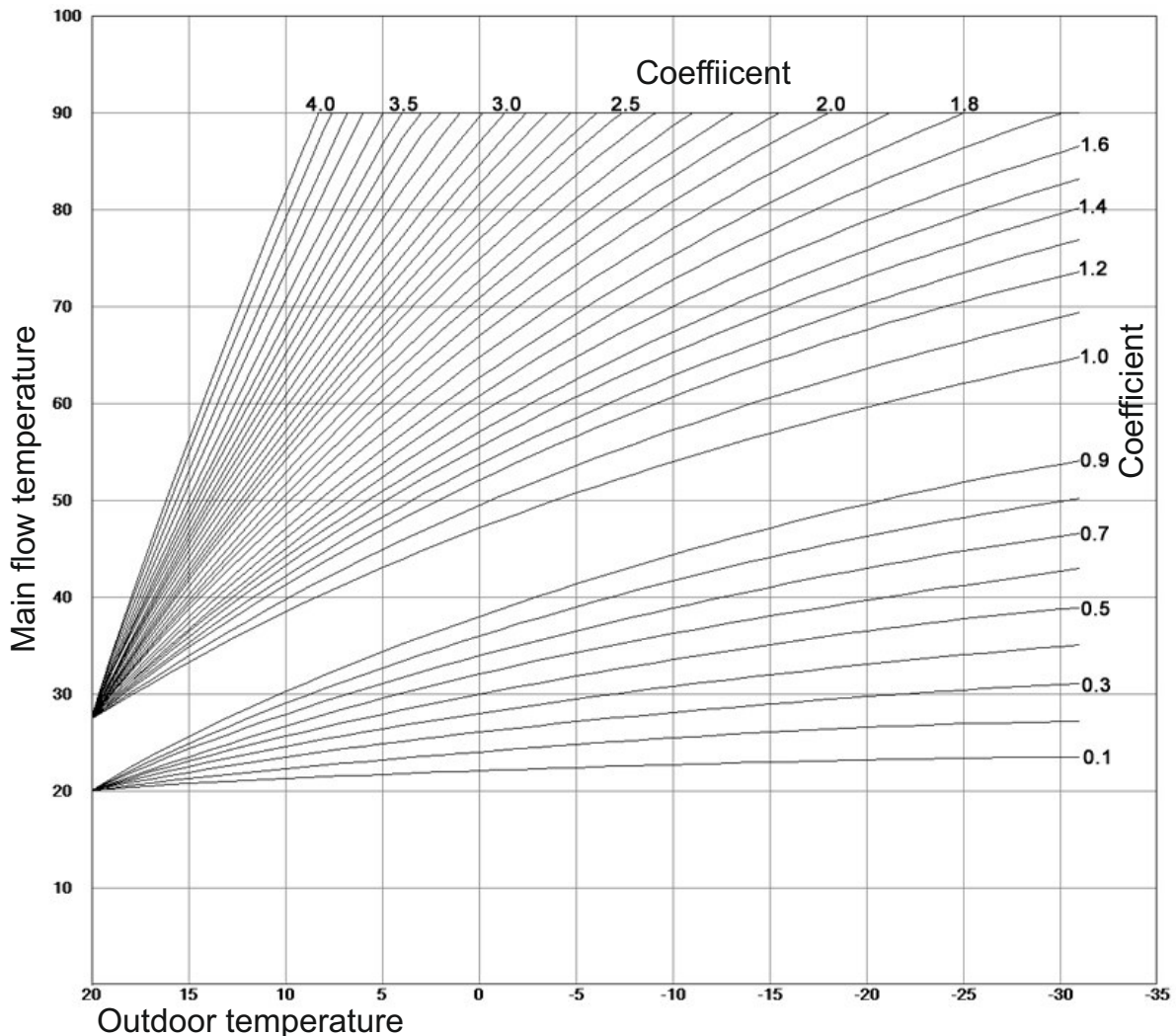
Corrector (S) - see page 19

Heating curve (S/K)

Setting of the heating curve.

Heating curve is one of the parameters for main flow temp. calculation.

| Factory setting | setting | |
|-----------------|---------|---------|
| Heating curve | 1.0 | 0.1-4.0 |



Day / Night temp. (S/K)

Setting the heating circuit mode.

This parameter is used to set heating circuit mode. Selecting the Day temp. heating circuit always works according set day temp., selecting the Night temp. heating circuit always works according set night temp. and by selecting the Table 1/2, heating circuit automatically switches mode between set day and set night temp. according the time set in the Table 1/2.

| Factory setting | | setting |
|-----------------|-----------|---|
| Day/night temp. | Day temp. | Day temp. / Night temp. / Table 1 / Table 2 |

Table 1 / Table 2 (S/K)

Setting the schedule tables with heating circuit mode switching between day and night temp.. For each day 3 mode switching can be set. All settings from one day can be selected and copy/paste to any another day of the week. After any adjustment they must be confirmed by pressing OK button to save the settings. Two tables can be set but only one can be active.

The interface consists of a grid for '1. circuit - Table 1' with columns for days of the week (MON, TUE, WED, THU, FRI, SAT, SUN) and rows for day/night temperature settings. A yellow arrow button is in the top right corner.

Top Screenshot: Shows the initial time setting. The 'MON' column is selected. The 'day temp.' row shows '06:00' and the 'night temp.' row shows '22:00'. Labels point to 'week day day selecting button', 'circuit number', 'back button', 'day temp.', 'night temp.', and 'time setting area (buttons)'.

Middle Screenshot: Shows the copy/paste function. The 'MON' column is highlighted. Labels point to 'entire day selected', 'copy button', and 'paste button'.

Bottom Screenshot: Shows the confirmation step. A blue button with a white checkmark is highlighted. Label points to 'OK (confirmation) button'.

CM2K settings

Correction coefficient (S/K)

Setting the correction coefficient for room corrector.

This parameter is used for setting the correction coefficient of the room corrector which will be used for main flow temp. calculation. Higher value of this parameter, higher effect it will have on main flow temp. calculation. This parameter is used only if room corrector is installed.

| Factory setting | | setting |
|-------------------|-----|-----------|
| Correction coeff. | 1.0 | 0.1 - 5.0 |

Pump off (S/K)

This menu is used for setting the parameters for switching off circuit pump according outdoor temperature and settings in this menu (doesn't affect DHW and Recirculation).

It has 3 options: **Outside temp. / Difference / Time**

Toutside (S/K)

Setting outside temperature.

This parameter is used to set according which outside temp. circuit pump will stop.

| Factory setting | | setting |
|-----------------|------|----------|
| Toutside | 20°C | 0 - 40°C |

Out temp. difference (S/K)

Setting the difference.

This parameter is used to set difference on which circuit pump will start again and delay time will be reset.

| Factory setting | | setting |
|-----------------------|-----|---------|
| Out. temp. difference | 2°C | 0 - 5°C |

Time (S/K)

Setting the time.

This parameter is used to set time delay for switching off the circuit pump when temperature for pump switching off is reached.

| Factory setting | | setting |
|-----------------|--------|-------------|
| Time | 30 min | 0 - 600 min |

Min. temperature radiator / floor / constant temp. (S)

Setting the main flow min. temp.

This parameter is used to set mixing circuit main flow min. temp..



| Factory setting | | setting |
|--|------|-----------|
| Min. temp. radiator/floor/constant temp. | 20°C | 20 - 90°C |

Max. temperature radiator / floor / constant temp. (S)

Setting the main flow max. temp.

This parameter is used to set mixing circuit main flow max. temp..



| Factory setting | | setting |
|--|------|-----------|
| Max. temp. radiator/floor/constant temp. | 90°C | 20 - 90°C |

Day room temperature (S/K)

Setting the day room temp.

This parameter is used to set desired heating circuit day room temperature.

| Factory setting | | setting |
|-----------------|------|---------------|
| Day room temp. | 20°C | 5.0. - 30.0°C |

Night room temperature (S/K)

Setting the night room temp.

This parameter is used to set desired heating circuit night room temperature.

| Factory setting | | setting |
|------------------|------|---------------|
| Night room temp. | 20°C | 5.0. - 30.0°C |

dT pump off (S)

Setting the room corrector difference.

This parameter is used to set how many °C measured room temp. must be higher than set room temp. to switch off the circuit pump (only if room corrector is installed).



| Factory setting | | setting |
|-----------------|-------|--------------|
| dT pump Off | 0.5°C | 0.0. - 3.0°C |

dT pump on (S)

Setting the room corrector difference.

This parameter is used to set how many °C measured room temp. must be lower than set room temp. to switch on the circuit pump (only if room corrector is installed).



| Factory setting | | setting |
|-----------------|-------|--------------|
| dT pump On | 0.5°C | 0.0. - 3.0°C |

CM2K setting

Transition time (S/K)

This parameter is used only when there isn't room corrector installed because regulation doesn't have info regarding measured room temp. This is presumed time in which system will achieve set room temp. between switching from day to night mode and vice versa, i.e. in which time main flow temp. will be optimized for quick transition.

| Factory setting | | setting |
|-----------------|----------|---------------|
| Transition time | 3600 sec | 0 - 18000 sec |

Note:

If room corrector CSK (additional equipment) is connected to the CM2K, this parameter is not used.

CONSTANT TEMPERATURE

X. circuit (S/K) - see page 18

Valve time (S) - see page 18

Heating type (S) - see page 18

Corrector (S) - see page 19

Pump off (S/K) - see page 21

Day room temp. (S/K) - see page 21

Night temp. (S/K) - see page 22

Day / Night temp. (S/K) - see page 20

Table 1/2 (S/K) - see page 20

dT pump off (S) - see page 21

dT pump on (S) - see page 21

Transition time (S/K) - see page 22

Day constant temp. (S/K)

Setting the circuit main flow constant temp. for day mode.

This parameter is used to set desired circuit main flow constant temp. for day mode.

| Factory setting | | setting |
|--------------------|------|-----------|
| Day constant temp. | 60°C | 20 - 90°C |

Noćna konstatna temperatura (S/K)

Setting the circuit main flow constant temp. for night mode.

This parameter is used to set desired circuit main flow constant temp. for night mode.

| Factory setting | | setting |
|----------------------|------|-----------|
| Night constant temp. | 60°C | 20 - 90°C |

DHW

X. circuit (S/K) - see page 18

Heating type (S) - see page 18

DHW Temperature (S/K)

Setting the DHW tank temperature.

This parameter is used to set desired DHW tank (domestic hot water) temp.

| Factory setting | | setting |
|-----------------|------|-----------|
| DHW temp. | 50°C | 40 - 80°C |

DHW difference (S/K)

Setting the DHW difference.

This parameter is used to set desired DHW tank (domestic hot water) difference.

| Factory setting | | setting |
|-----------------|-----|----------|
| DHW difference | 5°C | 4 - 40°C |

DHW schedule (S/K)

Setting the schedule for DHW.

this parameter is used to set if DHW schedule is active or not and select active Table 1/2 according to which schedule will work.

| Factory setting | | setting |
|-----------------|-----|-------------------------|
| DHW schedule | OFF | OFF / Table 1 / Table 2 |

Table 1 / Table 2 (S/K)

Setting the DHW schedule tables.

This parameter is used for setting the tables according DHW schedule will work. Only one table can be active.

RECIRCULATION

X. circuit (S/K) - see page 18

Heating type (S) - see page 18

DHW circuit (S)

Setting the DHW circuit for which recirculation will be enabled.

DHW circuit which has circulation installed must be selected. Selecting the DHW circuit must be done according how this circuit is regulated (boiler or one of CM2K circuits).



Sensor installed (S) 
NOT USED

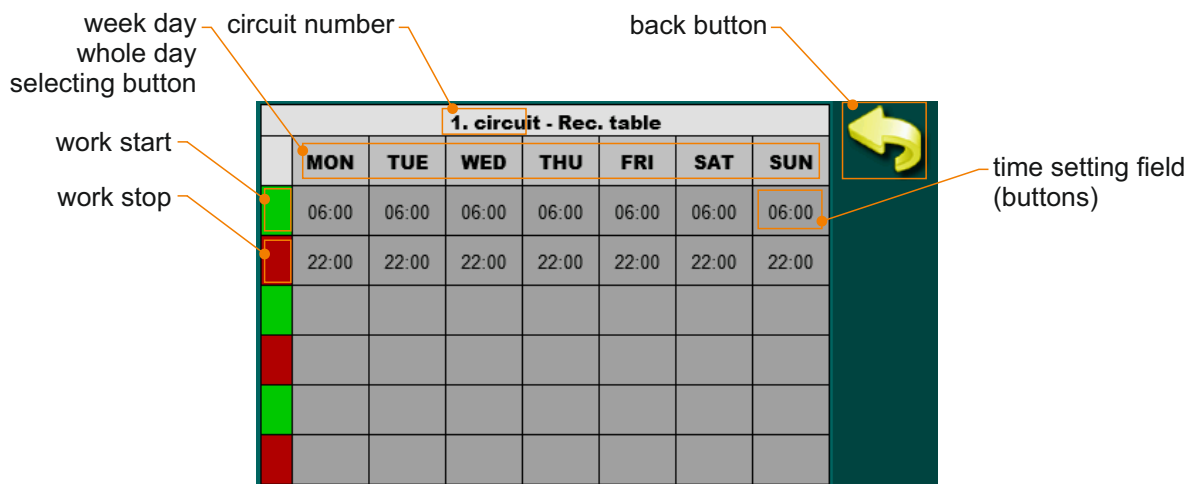
Time On rec. (S/K)
Recirculation pump work time.
Setting the recirculation pump work time when recirculation is active.

| Factory setting | | setting |
|-----------------|-------|--------------|
| Time On rec. | 5 min | 0 - 1440 min |

Time Off rec. (S/K)
Recirculation pump stop time.
Setting the recirculation pump stop time when recirculation is active.

| Factory setting | | setting |
|-----------------|-------|--------------|
| Time Off rec. | 5 min | 0 - 1440 min |

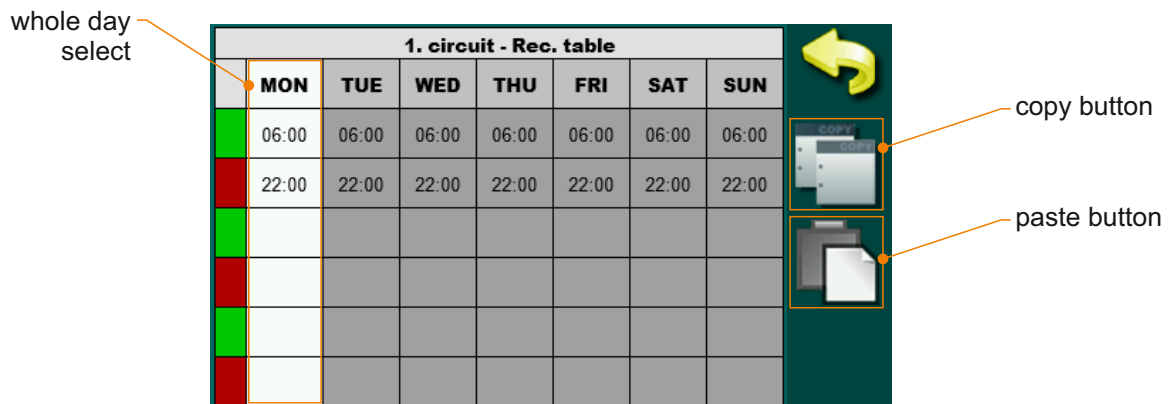
Recirculation table (S/K)
Recirculation work and stop table.



Annotations for the first screenshot:

- week day whole day selecting button
- circuit number
- back button
- work start
- work stop
- time setting field (buttons)

| 1. circuit - Rec. table | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|
| MON | TUE | WED | THU | FRI | SAT | SUN | |
| 06:00 | 06:00 | 06:00 | 06:00 | 06:00 | 06:00 | 06:00 | 06:00 |
| 22:00 | 22:00 | 22:00 | 22:00 | 22:00 | 22:00 | 22:00 | 22:00 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Annotations for the second screenshot:

- whole day select
- copy button
- paste button

| 1. circuit - Rec. table | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|
| MON | TUE | WED | THU | FRI | SAT | SUN | |
| 06:00 | 06:00 | 06:00 | 06:00 | 06:00 | 06:00 | 06:00 | 06:00 |
| 22:00 | 22:00 | 22:00 | 22:00 | 22:00 | 22:00 | 22:00 | 22:00 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Annotation for the third screenshot:

- OK (confirmation) button

| 1. circuit - Rec. table | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|
| MON | TUE | WED | THU | FRI | SAT | SUN | |
| 06:00 | 06:00 | 06:00 | 06:00 | 06:00 | 06:00 | 06:00 | 06:00 |
| 22:00 | 22:00 | 22:00 | 22:00 | 22:00 | 22:00 | 22:00 | 22:00 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

DHW + RECIRCULATION

- X. circuit (S/K) - see page 18
- Heating type (S) - see page 18
- DHW temp. (S/K) - see page 22
- DHW difference (S/K) - see page 22
- Time On rec. (S/K) - see page 23
- Time Off rec. (S/K) - see page 23
- DHW schedule (S/K) - see page 22
- Table 1 (S/K) - see page 20
- Recirculation table (S/K) - see page 23



Company assumes no responsibility for possible inaccuracies in this book originated typographical errors or rewriting, all the pictures and diagrams are principal and it is necessary to adjust each actual situation on the field, in any case the company reserves the right to enter their own products such modifications as considered necessary.

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