Centrometal
HEATING TECHNIQUE

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ISTRUZIONI TECNICHE

Descrizione e uso dell'unità di controllo
EKO-CKS P - UTENTE

CE

IL PRIMO AVVIO DEVE ESSERE EFFETTUATO DA UNA PERSONA AUTORIZZATA ALTRIMENTI LA GARANZIA DEL PRODOTTO NON È VALIDA

EKO-CKS P UNIT

TUCKSP-digreg-10/2017- IT
v1.07i

DESCRIZIONE

ACCENSIONE

Dopo aver acceso l'interruttore principale, lo schermo mostrerà il menu di selezione della lingua e la versione del software. Per selezionare la lingua, premere la bandiera della lingua desiderata.

Versione software
Potenza caldaia
(140, 180, 230, 280, 320
430, 499, 560 kW)

Selezione della lingua

Se la selezione della lingua è "disabilitata" (display > language sel > disabled), il messaggio iniziale apparirà sullo schermo fino all'impostazione nel menu "Welcome time" (display > welcome time).

Versione software
Potenza caldaia
(140, 180, 230, 280, 320
430, 499, 560 kW)
Pulsante 'OK'
Durata del messaggio iniziale
(conto alla rovescia)

⚠	**Quando si attiva l'interruttore principale, lo schermo non deve essere premuto (ad es. con un dito ...). Se quando si preme l'interruttore principale viene premuto lo schermo (sullo schermo con l'etichetta "Aggiornamento firmware") la regolazione è in "aggiornamento software" che può essere utilizzato solo da personale autorizzato. Se ciò accade, è necessario spegnere l'interruttore principale e riavviare senza alcuna pressione sul display.**

BARRA DEGLI STRUMENTI LATO DESTRO

LEGENDA:

1 - Ora e data
2 - Selezione display - Menu principale / schermata principale
3 - Menu a discesa
4 - Stato attuale della caldaia (fase di lavoro)
5 - Start / Stop caldaia

MENU PRINCIPALE

Il menu principale viene utilizzato per selezionare il sottomenu desiderato. Per selezionare un menu specifico, è necessario premere l'icona appropriata sullo schermo. Per alternare tra il ''Main menu'' e la ''Main screen'' premere il pulsante ''Display selection''.

PULSANTI

Pulsante ''**ON / OFF**''
Opzioni: accensione/spegnimento caldaia

Pulsante ''**MOSTRA SELEZIONE**''
Opzioni: menu principale / schermata di base

Pulsante ''**SCHERMATA CALDAIA**''
Opzioni: display grafico / numerico / attrezzatura aggiuntiva

Pulsante ''**ENTER**''

Pulsante ''**INDIETRO**''

Pulsante ''**SCHERMATA PRECEDENTE**''

Pulsante ''**SCHERMATA SUCCESSIVA**''

Pulsante ''**OK**''

Pulsante ''**START**''/''**STOP**''

Pulsanti di navigazione::
''**SINISTRA**'', ''**DESTRA**'', ''**SU**'', ''**GIU**''

Pulsante ''**CANCELLA**''

Pulsante ''**IMPOSTAZIONI DI FABBRICA**'

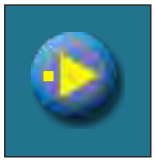
Pulsante ''**INFORMAZIONI**''

Pulsante ''**COPIA**''

Button ''**INCOLLA**''

SYMBOLS

Pompa (quando la pompa sta funzionando il simbolo ruota, altrimenti è inattivo)

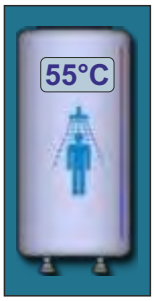


La pompa ha una richiesta di lavoro (accanto al simbolo della pompa di colore giallo brillante quando il consumatore richiede di azionare la pompa, la pompa non funziona se non sono soddisfatte tutte le condizioni per il lavoro, per esempio bassa temperatura nella caldaia, altrimenti la pompa funziona normalmente).

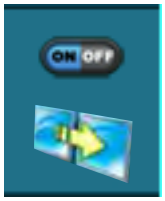
Termostato ambiente

Accanto al simbolo del termostato ambiente un cerchio blu luminoso (il termostato ambiente richiede di azionare la pompa, la pompa non funziona se non sono soddisfatte tutte le condizioni per il suo funzionamento, ad esempio bassa temperatura nella caldaia, altrimenti funziona normalmente)

Circuito di riscaldamento



Serbatoio dell'acqua calda sanitaria con temperatura corrente



Avvio esterno abilitato attraverso possibilità di avvio esterno

Avvio esterno disabilitato

Hydraulic crossover with the current temperature

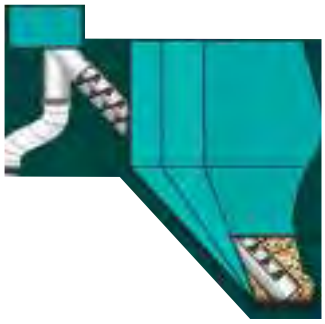
Miscelatore idraulico

Serbatoio ad accumulo con temperatura corrente nella parte superiore del serbatoio e sul fondo del serbatoio.

Alcuni degli avvii esterni sono abilitati, il resto sono disabilitati

Anteprima caldaie in cascata

Ciclone con ventilatore



Serbatoio pellet con alimentatore a coclea

Modalità di lavoro inverno

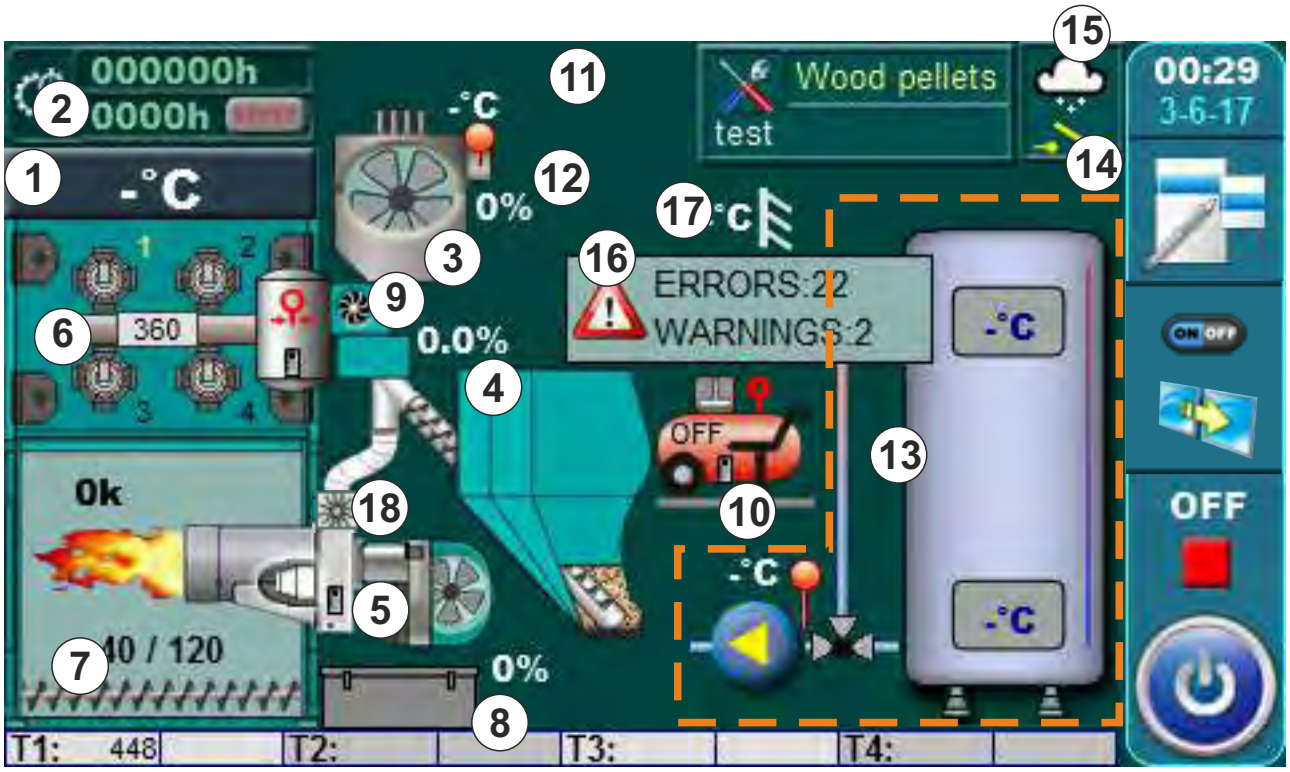
Modalità di lavoro estate

Avvio esterno - modalità di lavoro invernale

Avvio esterno - modalità di lavoro estiva

Simbolo compressore con indicatore lavoro (on / off).

SCHERMATA PRINCIPALE



1 - Temperatura caldaia
2 - Contatori delle ore di lavoro
3 - Ciclone ((140-430 kW) se installato e configurato) (Componenti optional per EKO-CKS P UNIT 140-430, Componenti standard per EKO-CKS P UNIT 499-560)
4 - Serbatoio per pellet con coclea di alimentazione
5 - Bruciatore a pellet
6 - Sistema di pulizia automatica dei tubi dei gas di combustione (passaggi) dello scambiatore di calore per via aerea (pneumatico) (Componenti optional)
7 - Sistema automatico di rimozione della cenere fuori dalla camera di combustione della caldaia (spirale) (Componenti optional)
8 - Scatola per la cenere (se installata)
9 - Sistema automatico di rimozione della cenere fuori dalla camera dei gas di scarico (spirale) (Attrezzatura supplementare)
10 - Compressore
11 - Temperatura dei fumi di scarico
12 - Percentuale di ossigeno nei gas di scarico
13 - Dipende dalla configurazione
14 - Controllo esterno
15 - Modalità di lavoro estiva/ invernale
16 - Errori / avvertenze
17 - Temperatura esterna
18- Erogatore

MENU A DISCESA

È possibile gestire ulteriori apparecchiature tramite il menu a discesa sulla schermata principale dell'unità di controllo della caldaia.

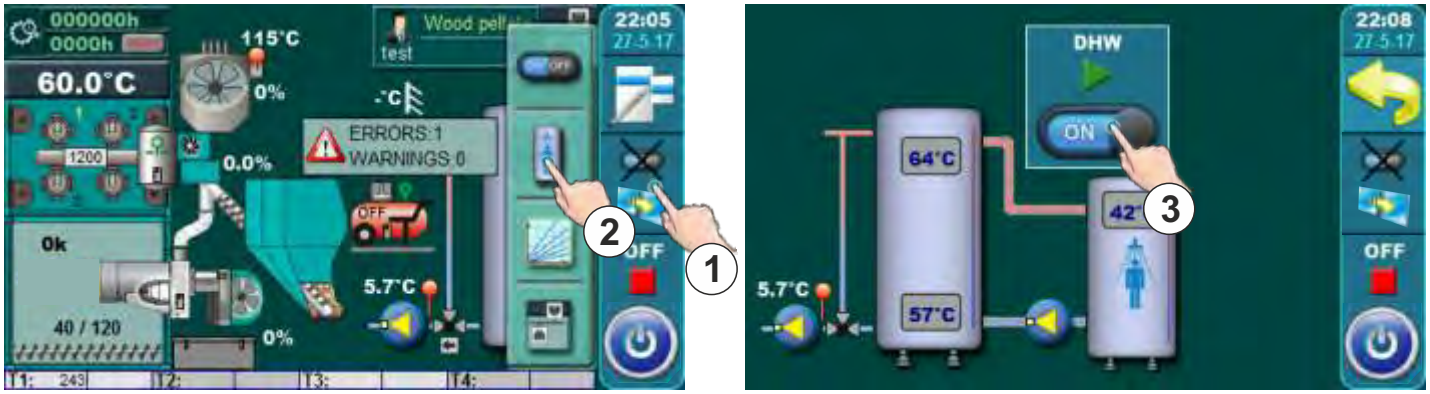
Menu a discesa

Premendo il pulsante per il funzionamento della caldaia sul display verrà visualizzato il menu a tendina per l'accesso alle apparecchiature configurate.

Gestione dell'componenti optional tramite menu a discesa.

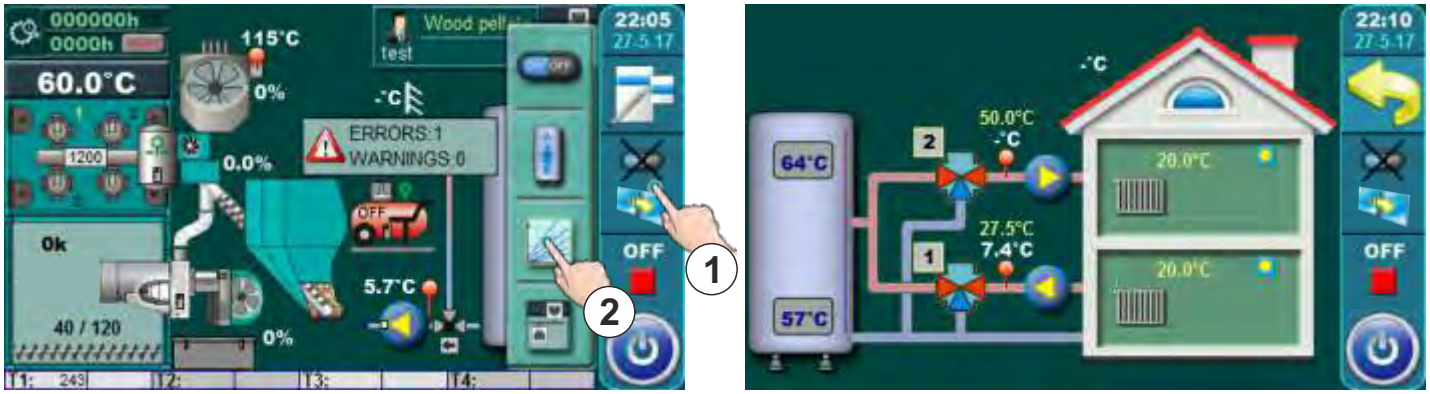
Premendo il pulsante per il funzionamento della caldaia (1) sul display verrà visualizzato il menu a discesa. Premendo il pulsante per la gestione delle apparecchiature aggiuntive (2) sul display verrà visualizzato il menu per la gestione delle apparecchiature aggiuntive, dove è possibile accendere / spegnere apparecchiature aggiuntive. Il menu delle apparecchiature aggiuntive dipende dalle apparecchiature aggiuntive installate e configurate.

Gestione dell'acqua calda sanitaria tramite menu a discesa (se installato e configurato).



Premendo il pulsante per il funzionamento della caldaia (1) sul display verrà visualizzato il menu a discesa. Premendo il pulsante per la gestione dell'acqua calda sanitaria (2) sul display verrà visualizzato il menu per la gestione ACS dove è possibile attivare / disattivare l'acqua calda sanitaria.

Regolatore (se installato e configurato).



Premendo il pulsante per il funzionamento della caldaia (1) sul display verrà visualizzato il menu a discesa. Premendo il pulsante per il regolatore (2) sul display verrà visualizzata l'anteprima del circuito di riscaldamento.

Gestione a cascata tramite menu a discesa (se installato e configurato)

Premendo il pulsante per il funzionamento della caldaia (1) sul display verrà visualizzato il menu a discesa. Premendo il pulsante 3 per la gestione in cascata (2) sul display verrà visualizzato il menu per la gestione in cascata. Premendo il pulsante (3) è possibile avviare / arrestare la caldaia in cascata. Sulla barra degli strumenti (4) viene visualizzata quale modalità ESTATE / INVERNO è attiva.

AVVIO/ARRESTO CALDAIA

AVVIO CALDAIA:

Per l'avvio della caldaia è necessario premere il tasto ON/OFF. Dopo aver premuto ON/OFF sullo schermo apparirà la finestra per confermare l'avvio della caldaia. Premere „OK” per confermare l'avvio della caldaia.

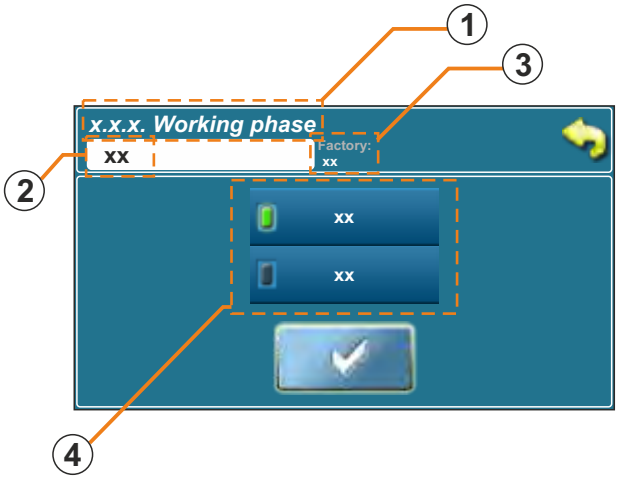
ARRESTO CALDAIA:

Per l'arresto della caldaia è necessario premere il tasto ON/OFF. Dopo aver premuto ON/OFF sullo schermo apparirà la finestra per confermare l'arresto della caldaia. Premere „OK” per confermare l'arresto della caldaia.

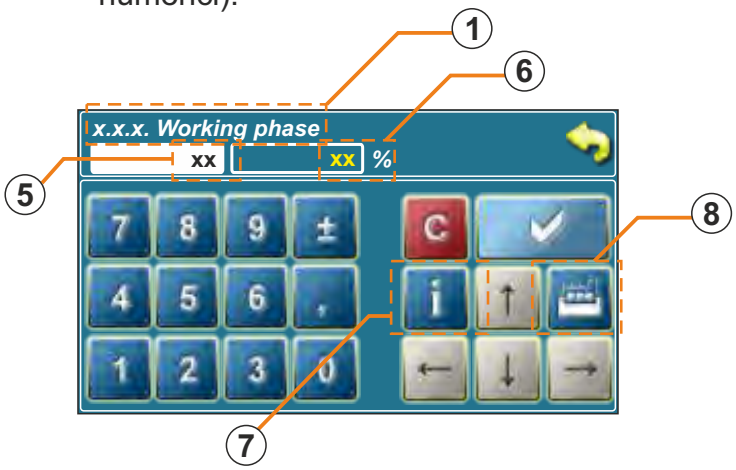
GESTIONE DEI PARAMETRI

Methods for parameters input

Metodo 1: inserire i parametri scegliendo i valori offerti.



Metodo 2: inserimento dei parametri tramite tastiera numerica (valori numerici).



1. Barra delle fasi di lavoro
- su questa barra verrà mostrato il nome della fase di lavoro con il valore dei parametri di

2. Valore del parametro
- in questa casella sono mostrati i valori corretti al momento

3. Valore regolato in fabbrica
- in questa casella sono mostrati i valori corretti in fabbrica per questo parametro

4. Possibile selezione (Metodo 1)
- in questa casella si trovano le opzioni disponibili per la scelta

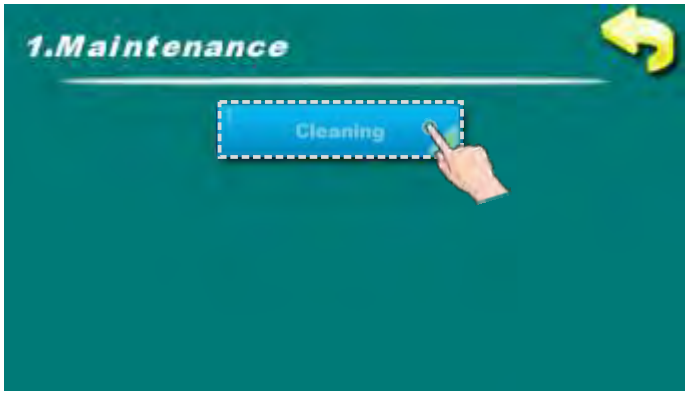
5. Valore del parametro
- in questa casella sono mostrati i valori scritti al momento

6. Valore attualmente regolato
- in questa casella sono mostrati i valori regolati attualmente per questo parametro (ultimo confermato)

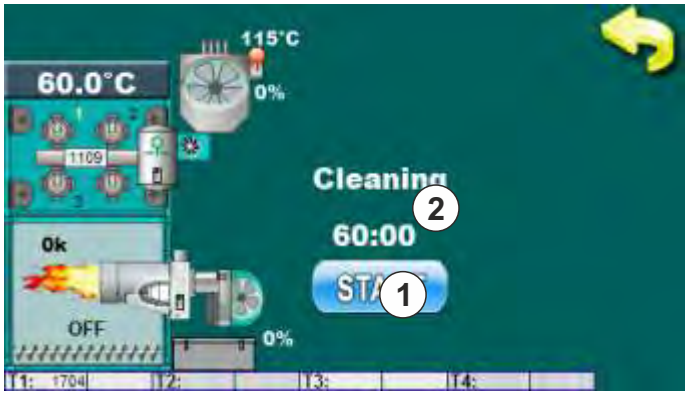
7. Pulsante Info
- pulsante informazioni che fornisce il valore della regolazione di fabbrica, il valore max. possibile per la regolazione ed il valore min. possibile per la regolazione

8. Impostazioni di fabbrica
- premendo questo pulsante il valore del parametro sarà regolato sul valore di fabbrica

1. MANUTENZIONE

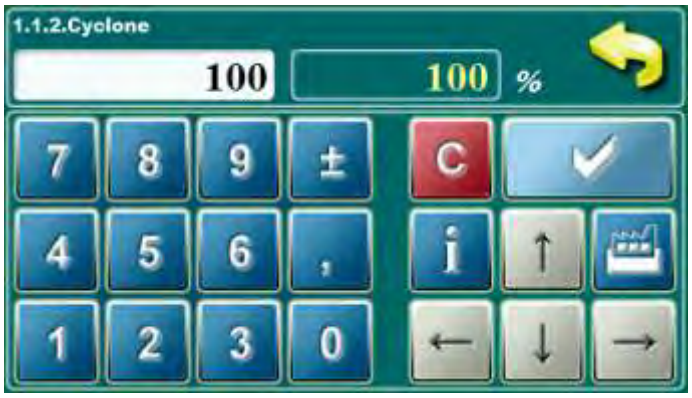


1.1.1. PULIZIA



Prima di eseguire la pulizia è necessario avviare l'opzione "Pulizia" premendo il pulsante "START" (1). A seconda di quali componenti sono selezionati nel punto "1.1.4. Tipo" questi componenti inizieranno con un lavoro con una durata di 60 minuti (2). Ora è possibile iniziare la pulizia.

1.1.2. CICLONE ((140-430 kW) se installato e configurato)



In questo parametro è possibile regolare la percentuale di lavoro del ciclone nell'opzione di pulizia (se è selezionato il ciclone nel punto "1.1.4.Tipo").

Possible adjustment:

- Factory adjustmen: 100%

- Minimal adjustment value: 20%
- Maximal adjustment value: 100%

1.1.3. BURNER FAN

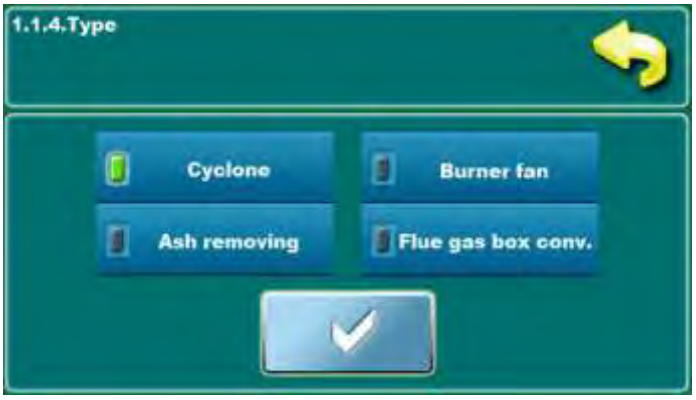
In this parameter is possible to adjust percentage of burner fan work in cleaning option (if is burner fan selected in point „1.1.4. Type").

Possible adjustment:

- Factory adjustmen: 100%

- Minimal adjustment value: 20%
- Maximal adjustment value: 100%

1.1.4. TYPE

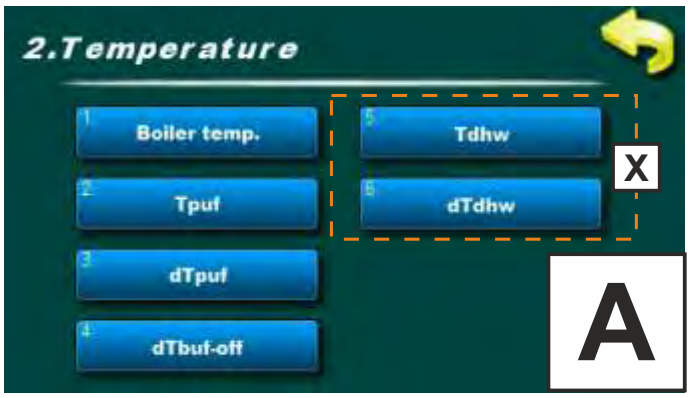


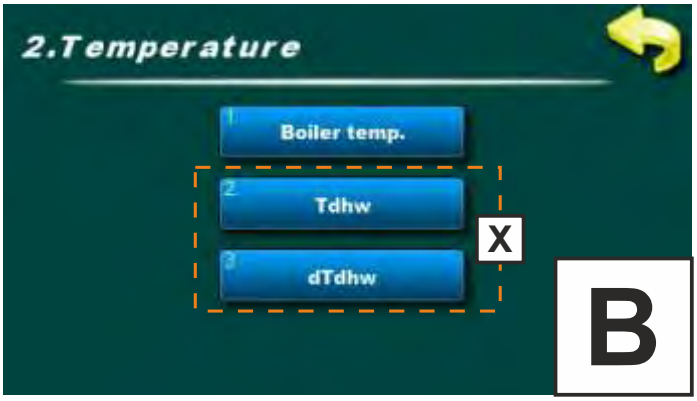
In this parameter is possible to select component which will be work in cleaning option (1.1.1. Cleaning).

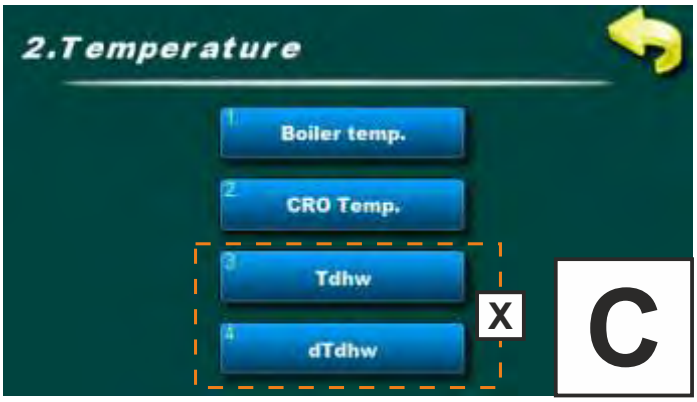
- Factory selected: -
Possible selection:
- Cyclone (if is installed and configured)
- Burner fan
- Ash removing (if is installed and configured)
- Flue gas box conveyor (if is installed and configured)

Every compontent can be selected independent on other components selection. All components can work in the same time.

2. TEMPERATURE





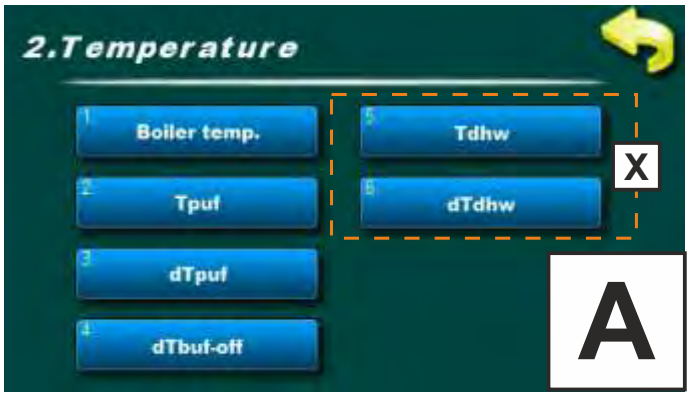


A - connection method: **„BUF**" (buffer tank)
B - connection method: **„CRO**" (hydraulic crossover)
C - connection method: **„CRO + Sensor"** (hydraulic crossover + sensor)

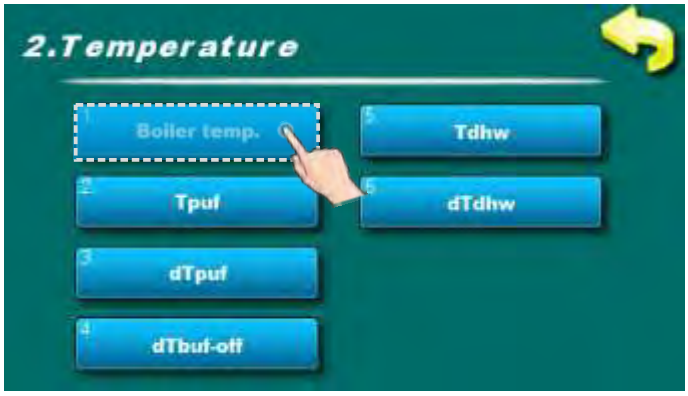
X - only if **„DHW**" (domestic hot water) exist on heating system (must be configured like additional equipment)

A

CONNECTION METHOD: **BUF (buffer tank)**

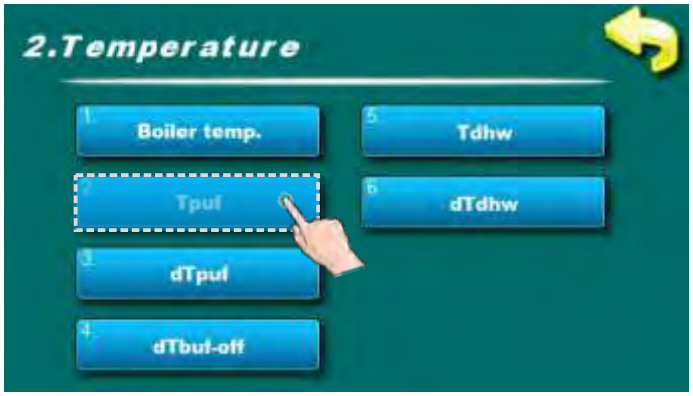


2.1. -A- BOILER TEMPERATURE



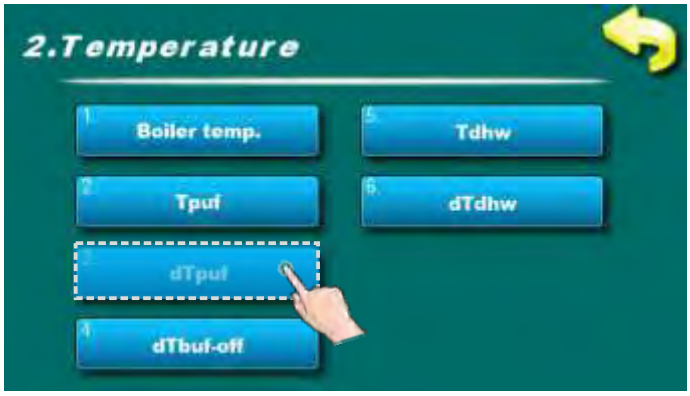
This parameter is adjusted automatic by displayed formula.

2.2. -A- BUFFER TANK TEMPERATURE (if is installed and configured)



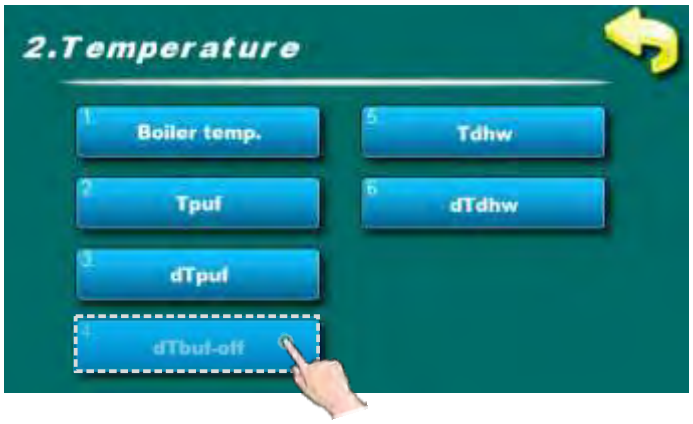
In this parameter is possible to adjust accumulation tank temperature.
Possible adjustment:
- Factory adjusted: 80°C
- Minimal adjustment value: 65°C
- Maximal adjustment value: 90°C

2.3. -A- DIFFERENCE OF BUFFER TANK TEMPERATURE (if is installed and configured)



In this parameter is possible to adjust buffer tank temperature difference.
Possible adjustment:
- Factory adjusted: 15˚C
- Minimal adjustment value: 15°C
- Maximal adjustment value: 75°C

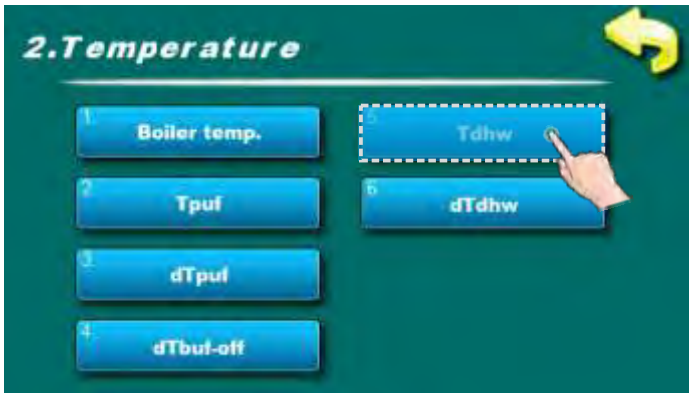
2.4. -A- dTAKU-off (Difference of buffer tank temperature for boiler shut down (pause)) (if is installed and configured)



Possible adjustment:
- Factory adjusted: 10°C
- Minimal adjustment value: 5°C
- Maximal adjustment value: 10°C

Condition for boiler shut down and pause: dTbuf-off < Tbuf (wanted temperature of buffer tank (up) - (measured temperature of buffer tank (down)).

2.5. -A- DOMESTIC HOT WATER TEMPERATURE (if is installed on heating installation and configured)



In this parameter is possible to adjust domestic hot water temperature.

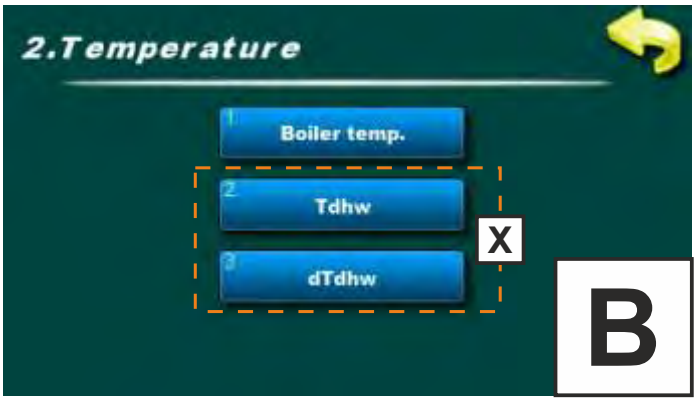
Possible adjustment:
- Factory adjusted: 50˚C
- Minimal adjustment value: 10°C
- Maximal adjustment value: 70°C

2.6. -A- DIFFERENCE OF DOMESTIC HOT WATER TEMPERATURE (if is installed on heating installation and configured)

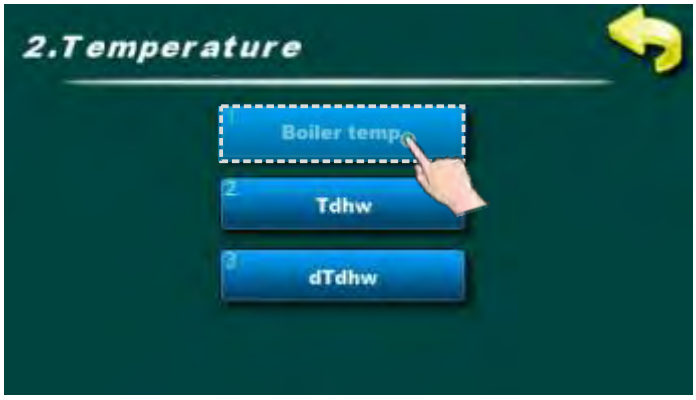
This parameter can’t be adjusteds. Factory adjusted difference for domestic hot water is 5°C.

B

CONNECTION METHOD: **CRO (hydraulic crossover)**



2.1. -B- BOILER TEMPERATURE



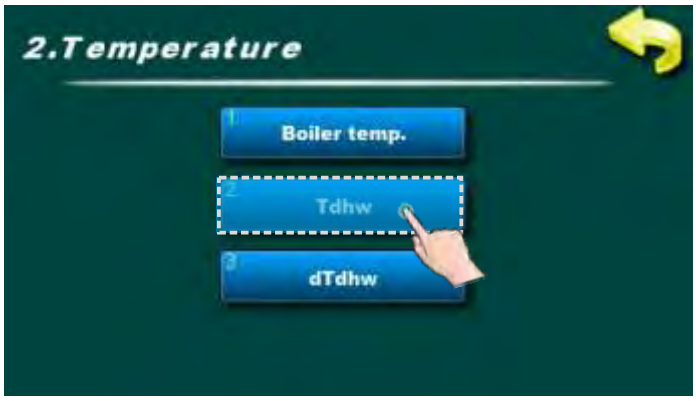
In this parameter is possible to adjust boiler temperature.

Possible adjustment:

- Factory adjusted: 80°C

- Minimal adjustment value: 65°C
- Maximal adjustment value: 90°C

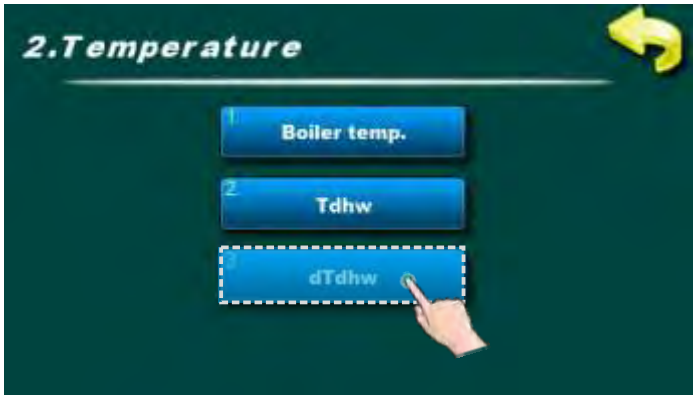
2.2. -B- DOMESTIC HOT WATER TEMPERATURE (if is DHW configured)



In this parameter is possible to adjust domestic hot water temperature.

Possible adjustment:
- Factory adjusted: 50˚C
- Minimal adjustment value: 10°C
- Maximal adjustment value: 70°C

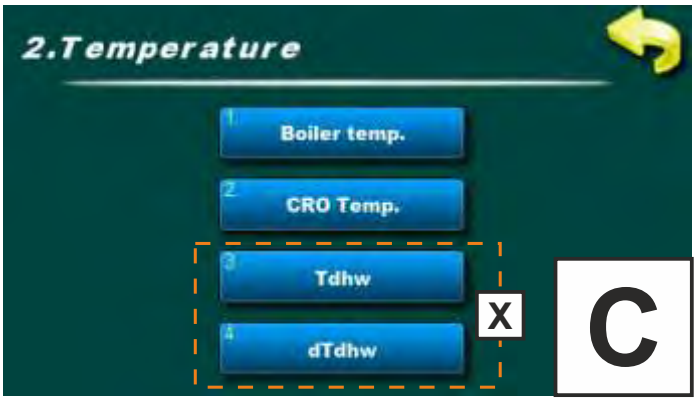
2.3. -B- DIFFERENCE OF DOMESTIC HOT WATER TEMPERATURE (if is DHW configured)



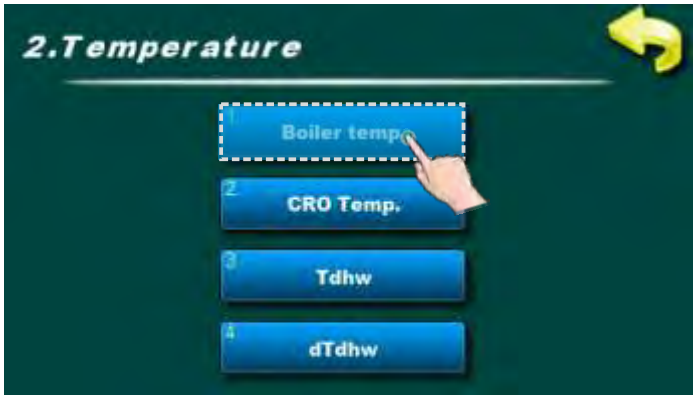
This parameter can’t be adjusteds. Factory adjusted difference for domestic hot water is 5°C.

C

CONNECTION METHOD: **CRO + sensor**
(hydraulic crossover + sensor)

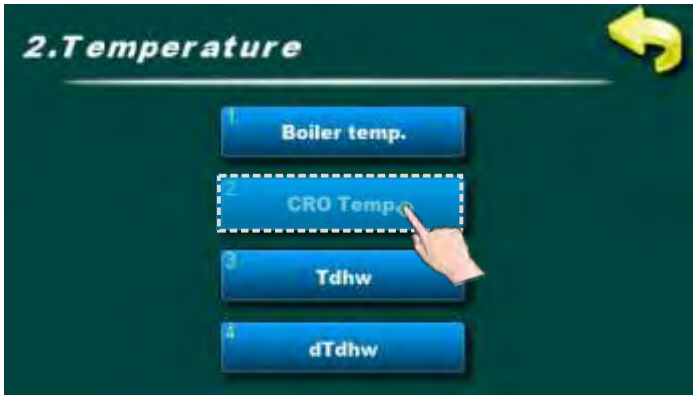


2.1. -C- BOILER TEMPERATURE



This parameter is adjusted automatic by displayed formula.

2.2. -C- HYDRAULIC CROSSOVER TEMPERATURE



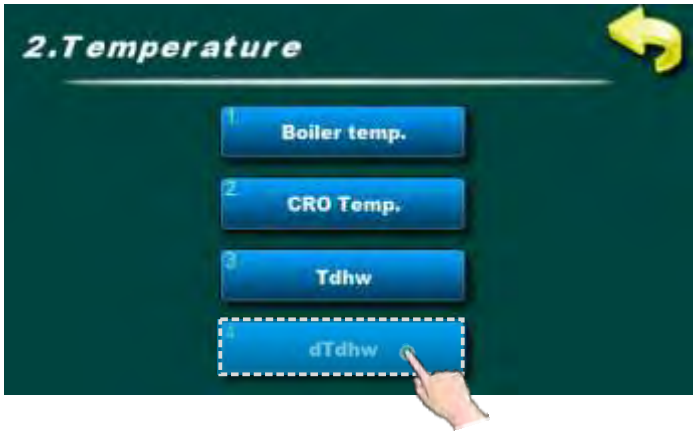
In this parameter is possible to adjust hydraulic crossover temperature.
Possible adjustment:
- Factory adjusted: 75°C
- Minimal adjustment value: 65°C
- Maximal adjustment value: 80°C

2.3. -C- DOMESTIC HOT WATER TEMPERATURE (if is DHW configured)

In this parameter is possible to adjust domestic hot water temperature.

Possible adjustment:
- Factory adjusted: 50˚C
- Minimal adjustment value: 10°C
- Maximal adjustment value: 70°C

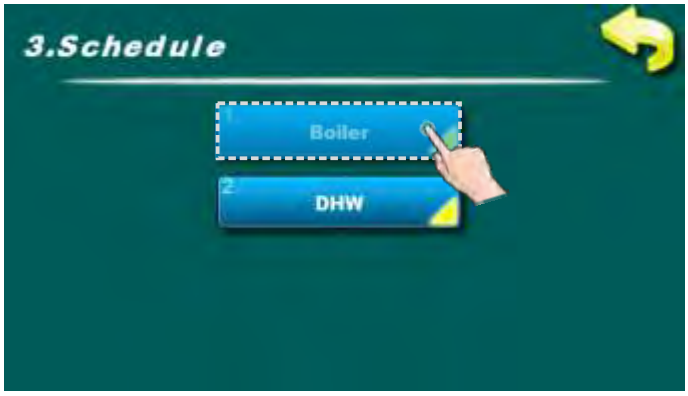
2.4. -C- DIFFERENCE OF DOMESTIC HOT WATER TEMPERATURE (if is DHW configured)



This parameter can't be adjusteds. Factory adjusted difference for domestic hot water is 5°C.

SCHEDULE

3.1. BOILER



Boiler schedule adjustment.

3.1.1. SCHEDULE

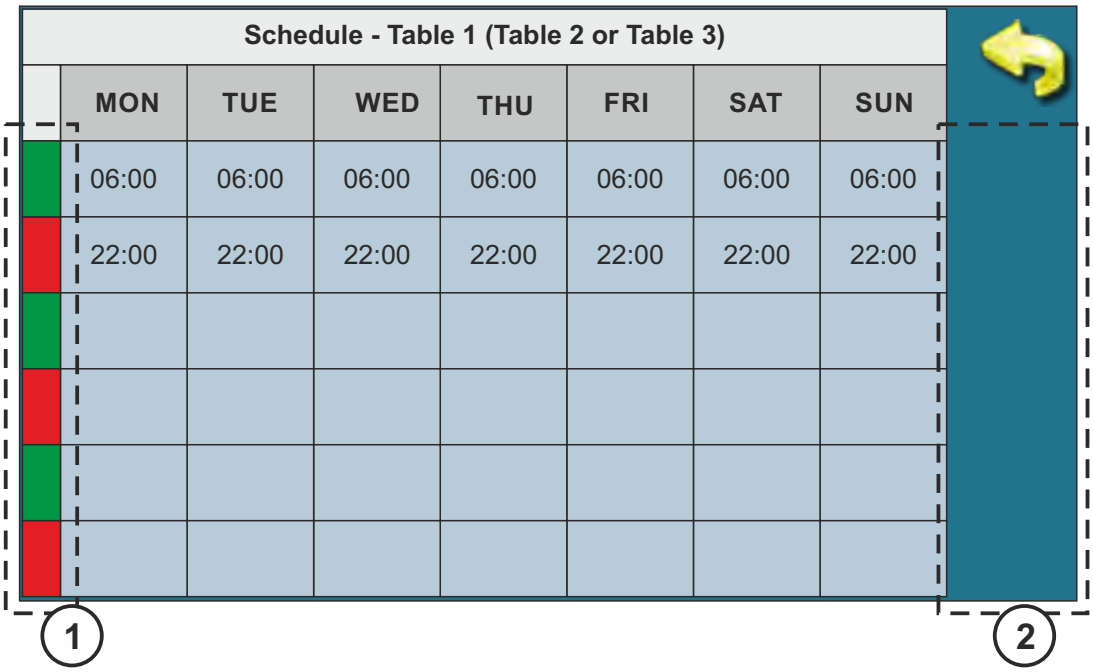
Possible selection:

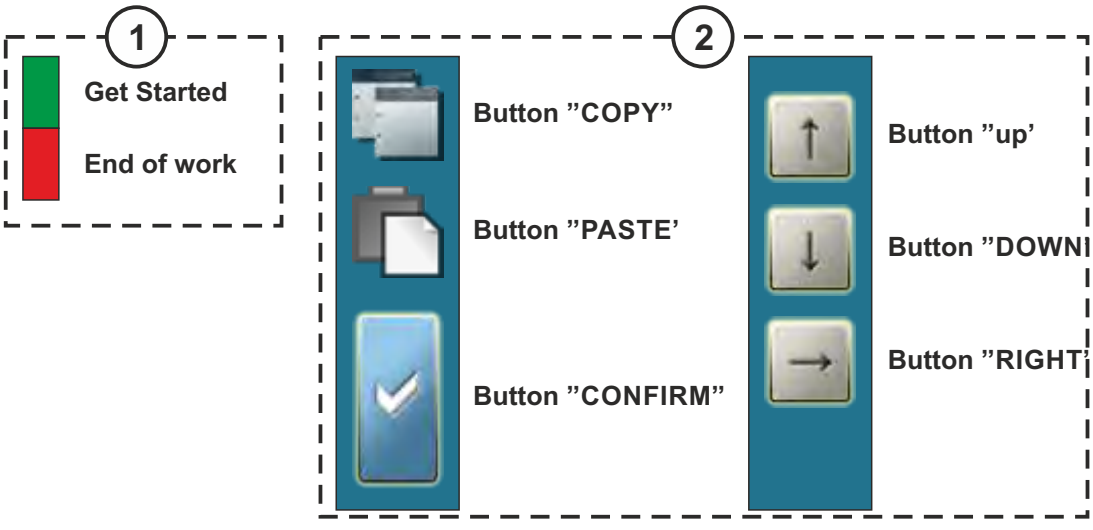
- Factory selected: OFF (schedule is turned off)

- Table 1 - Scheduled starting times are turned-on and work according to the settings in Table 1
- Table 2 - Scheduled starting times are turned-on and work according to the settings in Table 2
- Table 3 - Scheduled starting times are turned-on and work according to the settings in Table 3

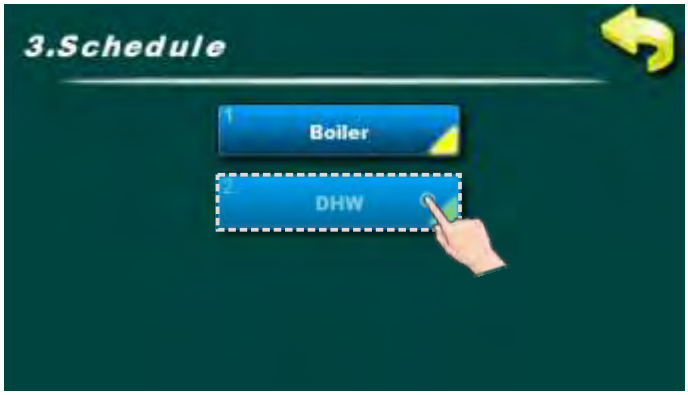
3.1.2., 3.1.3., 3.1.4. TABLE 1, 2, 3

Possibility of schedule is done using tables.They can be pre-set 3 tables of schedule of which only one table can be active. It is possible for every day of the week set 3 turning-on and 3 turning-off the boiler. Turn-on is marked by a green field and turn-off is marked with red field. You can adjust the starting times for one day and copied the same starting times to all other days. After setting the starting times for one day you have to click on the field that day (the whole day will be marked), on the right side will show the button**"COPY"**. Press this key (now you have copied the setting of that day and now will show button **"PASTE"**). It is necessary to press the day for which you want this settings and press the button **"PASTE"**. After that, the same starting time will be copied in the selected day. If you want the same settings for the other days, just select the desired day and press button **"PASTE"**. After filling the table with the starting times, press button **"BACK'**, and press button **"CONFIRM"** for saving this settings.





3.2. DHW (if is configured)



Domestic hot water schedule adjustment.

3.2.1. SCHEDULE

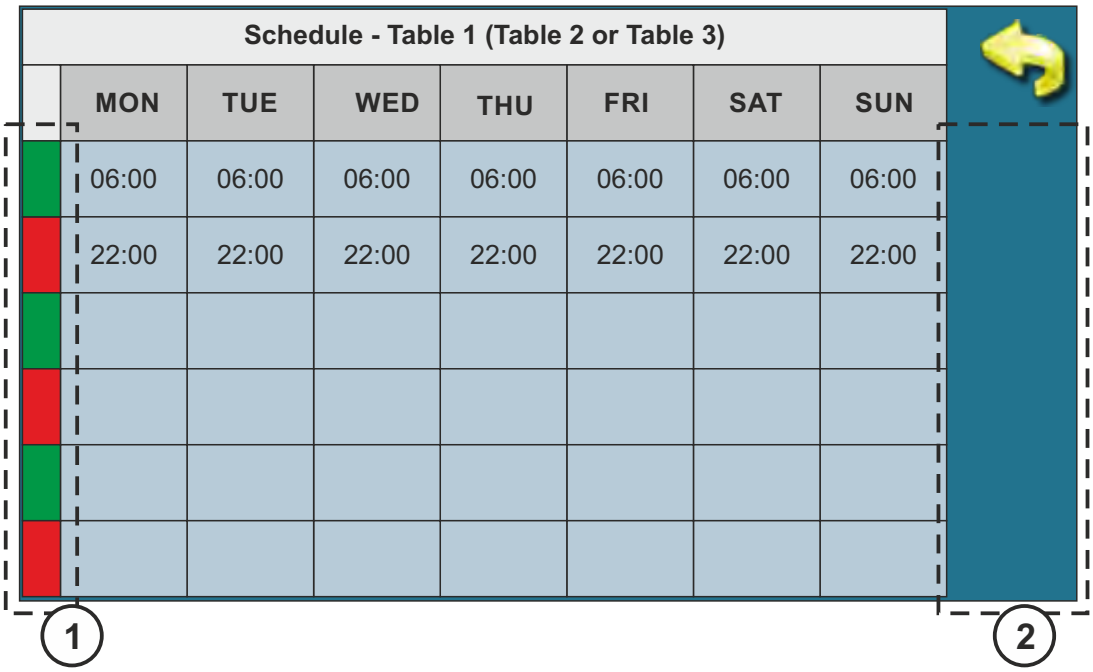
Possible selection:

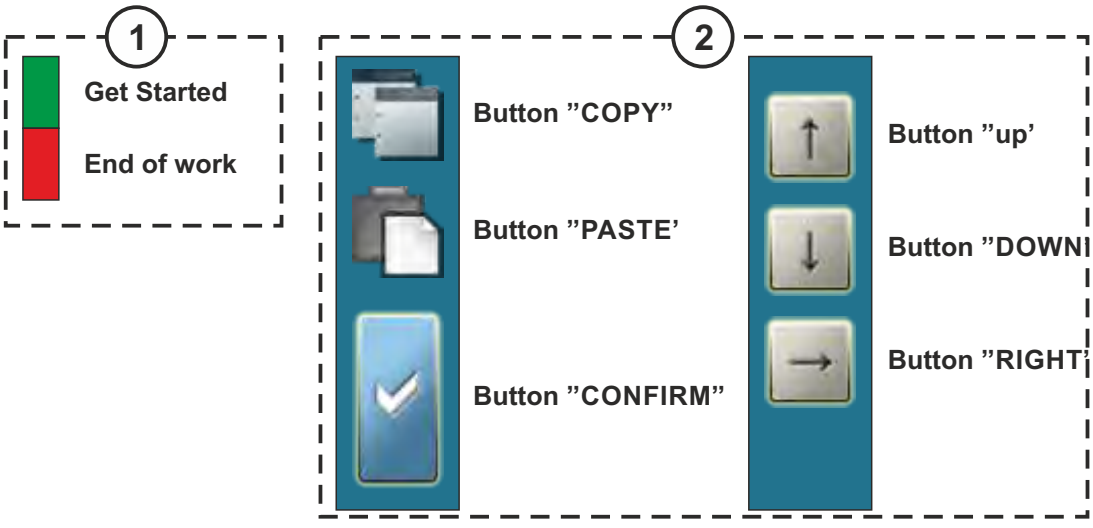
- Factory selected: OFF (schedule is turned off)

- Table 1 - Scheduled starting times are turned-on and work according to the settings in Table 1
- Table 2 - Scheduled starting times are turned-on and work according to the settings in Table 2
- Table 3 - Scheduled starting times are turned-on and work according to the settings in Table 3

3.2.2., 3.2.3., 3.2.4. TABLE 1, 2, 3

Possibility of schedule is done using tables.They can be pre-set 3 tables of schedule of which only one table can be active. It is possible for every day of the week set 3 turning-on and 3 turning-off the boiler. Turn-on is marked by a green field and turn-off is marked with red field. You can adjust the starting times for one day and copied the same starting times to all other days. After setting the starting times for one day you have to click on the field that day (the whole day will be marked), on the right side will show the button**"COPY"**. Press this key (now you have copied the setting of that day and now will show button **"PASTE"**). It is necessary to press the day for which you want this settings and press the button **"PASTE"**. After that, the same starting time will be copied in the selected day. If you want the same settings for the other days, just select the desired day and press button **"PASTE"**. After filling the table with the starting times, press button **"BACK'**, and press button **"CONFIRM"** for saving this settings.





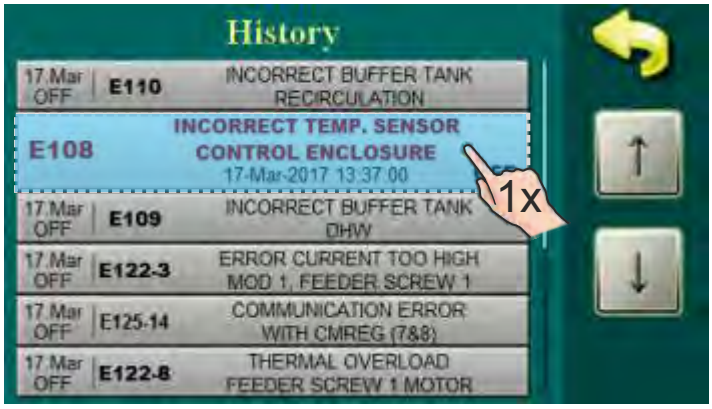
4. HISTORY

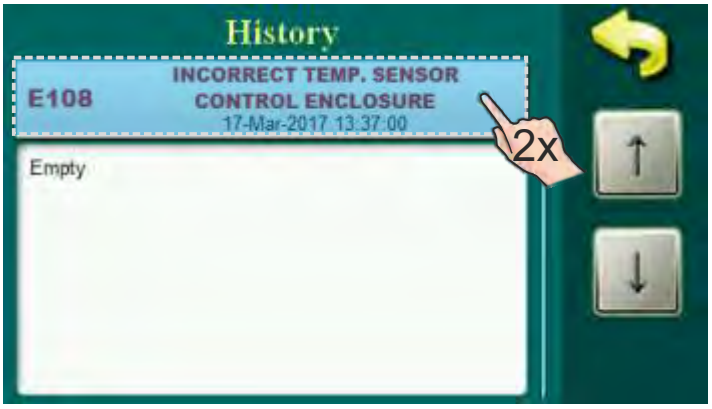
By pressing on „History" button will be opened menu for choosing history list. It can be choosen between error list and warning list. Informations history are placed with error list.

Written is: - time of occurrence errors/ warnings/ informations
- error/warning/information code
- description of the error/warning/information.

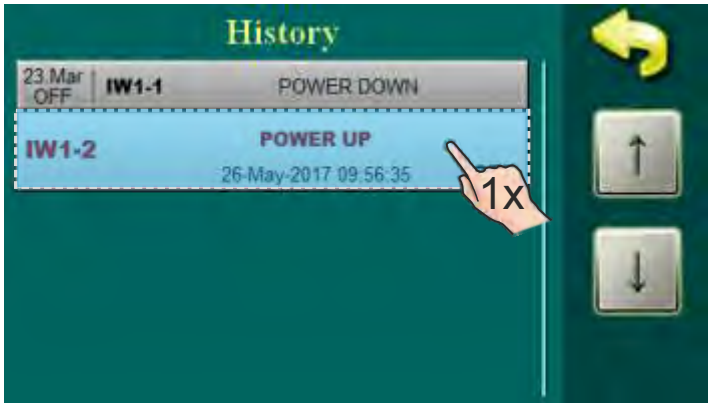
The first press on the field error/warning/information field is indicated, in addition to see and date generated errors/warnings/information. The second press on the selected error/ warning/information, prints a detailed description of the error/warnings/information and corrective action errors/warnings/information. If for some error/warning/information there is no description on current software version, on the screen will be displayed "empty".

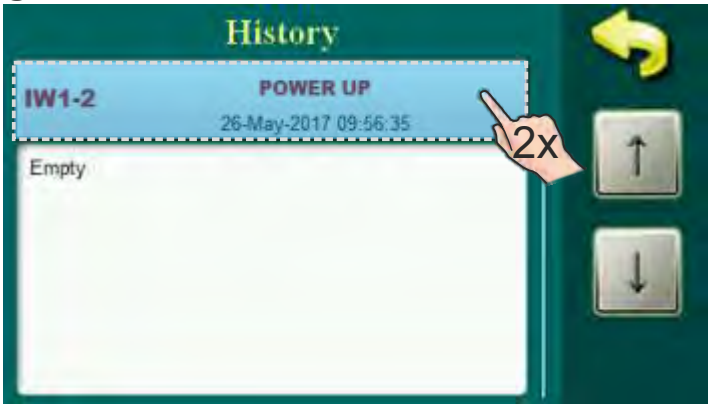
Error list





Warnings list





ERROR LIST

ERRORS:

ERROR	NAME	DESCRIPTION
E1	IGNITION ERROR	**Boiler status:** Ignition failed. **Possible causes:** Feeder screw don't supply fuel or don't supply enough to burner (it's not filled enough), not enough fuel in pellet tank, dirty burner grate, dirty photocell.
E1_1	IGNITION ERROR AFTER POWER FAIL	**Boiler status:** Ignition failed, before that power failure in working phase. **Possible causes:** Power failure in working phase.
E2	FLAME LOSS WHILE WORKING	**Boiler status:** Flame loss in burner working phase. **Possible causes:** Feeder screw don't supply enough fuel to burner, not enough fuel in pellet tank, dirty burner grate, dirty photocell.
E2_1	FLAME LOSS AFTER POWER FAIL	**Boiler status:** Flame loss in burner working phase, before that power failure in working phase. **Possible causes:** Power failure in burner working phase, after power up burner failed to clean grate.
E3	FLUE GAS TEMPERATURE TOO HIGH	**Boiler status:** Flue gas temperature is too high in burner working phase. **Possible causes:** Dirty boiler, adjusted power si too big, bad reading from flue gas sensor.
E4	SAFETHY THERMOSTAT	**Boiler status:** Safety thermostat interrupt el. power because of too high temperature in boiler; wait until the boiler temperature drops below max. operating temperature and activate STB safety thermostat; try to find and eliminate causes of STB safety thermostat activation. **Possible causes:** Power failure in burner working phase, disabled heat transfer to buffer tank or to consumers.
E5	PRESSURE	**Boiler status:** Too high pressure in firebox. **Possible causes:** Not enough clean (reduced passage) flue gas passages, flue gas tubes or chimney, adjusted too high fuel (pellet) supply, invalid pressure switch, too low chimney underpressure.
E6	PELLET SUPPLY TUBE TEMPERATURE TOO HIGH	**Boiler status:** Pellet supply tube (to burner) temperature is too high. **Possible causes:** Plastic supply tube is damaged (have holes); Plastic supply tube is not properly installed (not sealed); Invalid bimetal thermostat on pellet supply tube.
E7_1	WATER PRESSURE LOW	**Boiler status:** Water pressure is too low. **Possible causes:** Water leakage from heating system, problem with expansion vessel, invalid limiter for low pressure.

E7_2	WATER PRESSURE HIGH	**Boiler status:** Water pressure is too high. **Possible causes:** Problem with expansion vessel, invalid limiter for low pressure.
E8	TEMPERATURE TOO HIGH CONTROL ENCLOSURE	**Boiler status:** Junction box temperature too high. **Possible causes:** High temperature of junction box environment, invalid junction box sensor.
E9	WRONG DATE AND TIME	**Boiler status:** Time and date are not adjusted, it stayed on factory settings. **Possible causes:** Time and date are not adjusted, it necessary to adjust it.
E101	INCORRECT BOILER SENSOR TK1	**Boiler status:** Incorrect boiler sensor. **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
E102	INCORRECT FLUE GAS SENSOR	**Boiler status:** Incorrect flue gas sensor. **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
E103	INCORRECT RETURN LINE SENSOR	**Boiler status:** Incorrect boiler return sensor **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
E104	INCORRECT BUFFER TANK SENSOR UP	**Boiler status:** Incorrect buffer tank sensor (up) **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
E105	INCORRECT BUFFER TANK SENSOR DOWN	**Boiler status:** Incorrect buffer tank sensor (down) **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
E106	INCORRECT OUTSIDE TEMPERATURE SENSOR	**Boiler status:** Incorrect outside temperature sensor **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
E107	INCORRECT CROSSOVER TEMPERATURE SENSOR UP	**Boiler status:** Incorrect crossover temperature sensor **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
E108	INCORRECT TEMPERATURE SENSOR CONTROL ECLOSURE	**Boiler status:** Incorrect junction box temperature sensor. **Possible causes:** Interruption on connection to the junction box, cold connection or invalid sensor.

E109	INCORRECT TEMPERATURE SENSOR DHW.	**Boiler status:** Incorrect temperature sensor DHW. **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
E110	INCORRECT TEMPERATURE SENSOR RECIRCULATION	**Boiler status:** Incorrect temperature sensor recirculation. **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
E111	PHOTOCELL ERROR	**Boiler status:** Photocell error. **Possible causes:** Interruption on el. connection between photocell and junction box, connection to the junction box, cold connection or invalid photocell.
E111	PHOTOCELL ERROR	**Boiler status:** Photocell error. **Possible causes:** Interruption on el. connection between photocell and junction box, connection to the junction box, cold connection or invalid photocell.
E112	CYCLONE INVERTER ERROR	**Boiler status:** Cyclone inverter error. **Possible causes:** Problem with entry tension, cyclone fan, bad el. connections or inverter is invalid.
E113	BURNER INVERTER ERROR	**Boiler status:** Burner inverter error. **Possible causes:** Problem with entry tension, burner fan, bad el. connections or inverter is invalid.
E115	PUMP (CONTACTOR) ERROR	**Boiler status:** Pump (contacor) error **Possible causes:** Problem with boiler pump, bad adjustment of thermic protection, problems with contactor.
E116	ASH REMOVING (CONTACTOR) ERROR	**Boiler status:** Ash removing (contactor) error **Possible causes:** Problems with ash removing motor device, bad adjustment of thermic protection, problems with contactor.
E118	DISPENSER (CONTACTOR) ERROR	Dispenser (contactor) error (if is dispenser installed - additional equipment).
E122_1	CONTROL ERROR MOD 1, FEEDER SCREW 1	Control error mod 1, feeder screw 1 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E122_2	CURRENT RISE ERROR MOD 1, FEEDER SCREW 1	Current rise error mod 1, feeder screw 1 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).

E122_3	ERROR CURRENT TOO HIGH MOD 1, FEEDER SCREW 1	Error current too high mod 1, feeder screw 1 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E122_4	ERROR ASYMMETRY MOD 1, FEEDER SCREW 1	Error current too high mod 1, feeder screw 1 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E122_5	ERROR CURRENT TOO LOW MOD 1, FEEDER SCREW 1	Error current too low mod 1 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E122_6	ERROR UNWANTED CURRENT MOD 1, FEEDER SCREW 1	Error unwanted current mod 1, feeder screw 1 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E122_7	THERMAL OVERLOAD MOD 1, FEEDER SCREW 1	Thermal overload mod 1, feeder screw 1 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E122_8	THERMAL OVERLOAD FEEDER SCREW 1 MOTOR	Thermal overload feeder screw 1 motor - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E123_1	CONTROL ERROR MOD 2, FEEDER SCREW 2	Control error mod 2, feeder screw 2 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E123_2	CURRENT RISE ERROR MOD 2, FEEDER SCREW 2	Current rise error mod 2, feeder screw 2 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E123_3	CURRENT RISE ERROR MOD 2, FEEDER SCREW 2	Current rise error mod 2, feeder screw 2 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E123_4	ERROR ASYMMETRY MOD 2, FEEDER SCREW 2	Error asymmetry mod 2, feeder screw 2 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E123_5	ERROR CURRENT TOO LOW MOD 2, FEEDER SCREW 2	Error current too low mod 2, feeder screw 2 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).

E123_6	ERROR UNWANTED CURRENT MOD 2, FEEDER SCREW 2	Error unwanted current mod 2, feeder screw 2 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E123_7	THERMAL OVERLOAD MOD 2, FEEDERSSCREW 2	Thermal overload mod 2, feeder screw 2 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E123_8	THERMAL OVERLOAD FEEDER SCREW 2 MOTOR	Thermal overload feeder screw 2 motor - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E124_1	CONTROL ERROR MOD 3, FEEDER SCREW 3	Control error mod 3, feeder screw 3 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E124_2	CURRENT RISE ERROR MOD 3, FEEDER SCREW 3	Current rise error mod 3, feeder screw 3 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E124_3	ERROR CURRENT TOO HIGH MOD 3, FEEDER SCREW 3	Error current too high mod 3, feeder screw 3 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E124_4	ERROR ASYMMETRY MOD 3, FEEDER SCREW 3	Error asymmetry mod 3, feeder screw 3 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E124_5	ERROR CURRENT TOO LOW MOD 3, FEEDER SCREW 3	Error current too low mod 3, feeder screw 3 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E124_6	ERROR UNWANTED CURRENT MOD 3, FEEDER SCREW 3	Error unwanted current mod 3, feeder screw 3 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E124_7	THERMAL OVERLOAD MOD 3, FEEDER SCREW 3	Thermal overload mod 3, feeder screw 3 - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).
E124_8	THERMAL OVERLOAD FEEDER SCREW 3 MOTOR	Thermal overload feeder screw 3 motor - Pellet feeding conveyors from the seasonal tank (if is installed - additional equipment).

E125_1	COMMUNICATION ERROR WITH MOTHERBOARD	Call service man!
E125_2	COMMUNICATION ERROR WITH SENSOR BORD	Call service man!
E125_4	COMMUNICATION ERROR WITH EXT BOARD A15	Call service man!
E125_5	COMMUNICATION ERROR WITH EXT BOARD A14	Call service man!
E125_6	COMMUNICATION ERROR WITH EXT BOARD A13	Call service man!
E125_7	COMMUNICATION ERROR WITH EXT BOARD A12	Call service man!
E125_8	COMMUNICATION ERROR WITH EXT BOARD A0	Call service man!
E125_9	COMMUNICATION ERROR WITH EXT BOARD A1	Call service man!
E125_10	COMMUNICATION ERROR WITH EXT BOARD A2	Call service man!
E125_11	COMMUNICATION ERROR WITH CMREG (1&2)	Call service man!
E125_12	COMMUNICATION ERROR WITH CMREG (3&4)	Call service man!

E125_13	COMMUNICATION ERROR WITH CMREG (5&6)	Call service man!
E125_14	COMMUNICATION ERROR WITH CMREG (7&8)	Call service man!
E125_15	COMMUNICATION ERROR WITH CMGSM	**Possible causes:** Interruption in el. connections between junction box and CMGSM or invalid CMGSM module.
E125_16	COMMUNICATION ERROR WITH CMNET	**Possible causes:** Interruption in el. connections between junction box andCMNET or invalid CMNET module.
E126_1	UNKNOWN BOILER POWER!	**Possible causes:** Key for power loading is not installed or recognized, cold connection or invalid key.
E126_2	WRONG BOILER POWER	Call service man!
E126_3	MOTHERBOARD CHANGED!	Call service man!
E127	SENSOR CM2K 1.CIRCUIT	**Boiler status:** Pump of 1+ heating circuit doesn't work. Boiler work normally. **Possible causes:** Error on ow temperature sensor of 1+ heating circuit (on regulator CM2K).
E128	CORRECTOR CM2K 1.CIRCUIT	**Boiler status:** Pump of 1+ heating circuit work in intervention mode by heating curve. Boiler work normally. **Possible causes:** Error on room corrector of 1+ heating circuit (CM2K regulator), bad corrector connection to the CM2K or room corrector failure.
E129	SENSOR CM2K 2.CIRCUIT	**Boiler status:** Pump of 2+ heating circuit doesn't work. Boiler work normally. **Possible causes:** Error on ow temperature sensor of 2+ heating circuit (on regulator CM2K).

E130	CORRECTOR CM2K 2.CIRCUIT	**Boiler status:** Pump of 2+ heating circuit work in intervention mode by heating curve. Boiler work normally. **Possible causes:** Error on room corrector of 2+ heating circuit (CM2K regulator), bad corrector connection to the CM2K or room corrector failure.
E131	SENSOR CM2K 3.CIRCUIT	**Boiler status:** Pump of 3+ heating circuit doesn't work. Boiler work normally. **Possible causes:** Error on ow temperature sensor of 3+ heating circuit (on regulator CM2K).
E132	CORRECTOR CM2K 3.CIRCUIT	**Boiler status:** Pump of 3+ heating circuit work in intervention mode by heating curve. Boiler work normally. **Possible causes:** Error on room corrector of 3+ heating circuit (CM2K regulator), bad corrector connection to the CM2K or room corrector failure.
E133	SENSOR CM2K 4.CIRCUIT	**Boiler status:** Pump of 4+ heating circuit doesn't work. Boiler work normally. **Possible causes:** Error on ow temperature sensor of 4+ heating circuit (on regulator CM2K).
E134	CORRECTOR CM2K 4.CIRCUIT	**Boiler status:** Pump of 4+ heating circuit work in intervention mode by heating curve. Boiler work normally. **Possible causes:** Error on room corrector of 4+ heating circuit (CM2K regulator), bad corrector connection to the CM2K or room corrector failure.
E135	SENSOR CM2K 5.CIRCUIT	**Boiler status:** Pump of 5+ heating circuit doesn't work. Boiler work normally. **Possible causes:** Error on ow temperature sensor of 5+ heating circuit (on regulator CM2K).
E136	CORRECTOR CM2K 5.CIRCUIT	**Boiler status:** Pump of 5+ heating circuit work in intervention mode by heating curve. Boiler work normally. **Possible causes:** Error on room corrector of 5+ heating circuit (CM2K regulator), bad corrector connection to the CM2K or room corrector failure.
E137	SENSOR CM2K 6.CIRCUIT	**Boiler status:** Pump of 6+ heating circuit doesn't work. Boiler work normally. **Possible causes:** Error on ow temperature sensor of 6+ heating circuit (on regulator CM2K).
E138	CORRECTOR CM2K 6.CIRCUIT	**Boiler status:** Pump of 6+ heating circuit work in intervention mode by heating curve. Boiler work normally. **Possible causes:** Error on room corrector of 6+ heating circuit (CM2K regulator), bad corrector connection to the CM2K or room corrector failure.
E139	SENSOR CM2K 7.CIRCUIT	**Boiler status:** Pump of 7+ heating circuit doesn't work. Boiler work normally. **Possible causes:** Error on ow temperature sensor of 7+ heating circuit (on regulator CM2K).

E140	CORRECTOR CM2K 7.CIRCUIT	**Boiler status:** Pump of 7+ heating circuit work in intervention mode by heating curve. Boiler work normally. **Possible causes:** Error on room corrector of 7+ heating circuit (CM2K regulator), bad corrector connection to the CM2K or room corrector failure.
E141	SENSOR CM2K 8.CIRCUIT	**Boiler status:** Pump of 8+ heating circuit doesn't work. Boiler work normally. **Possible causes:** Error on ow temperature sensor of 8+ heating circuit (on regulator CM2K).
E142	CORRECTOR CM2K 8.CIRCUIT	**Boiler status:** Pump of 8+ heating circuit work in intervention mode by heating curve. Boiler work normally. **Possible causes:** Error on room corrector of 8+ heating circuit (CM2K regulator), bad corrector connection to the CM2K or room corrector failure.
E143	NO COMPRESSED AIR	Call service man!
E144	SERVICE TIME COMPRESSOR	Call service man!

WARNINGS:

WAR.	NAME	DESCRIPTION
W2	INCORRECT BUFFER TANK SENSOR UP	**Boiler status:** Incorrect buffer tank sensor (up) **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
W3	INCORRECT BUFFER TANK SENSOR DOWN	**Boiler status:** Incorrect buffer tank sensor (down) **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
W4	INCORRECT BUFFER TANK SENSOR DOWN	**Boiler status:** Incorrect buffer tank sensor (down) **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
W5	INCORRECT RETURN LINE SENSOR	**Boiler status:** Incorrect boiler return sensor **Possible causes:** Interruption on el. connection between sensor and junction box, connection to the junction box, cold connection or invalid sensor.
W7	TEMPERATURE TOO HIGH CONTROL ENCLOSURE	**Boiler status:** Junction box temperature too high. **Possible causes:** High temperature of junction box environment, invalid junction box sensor.
W8	ASH REMOVING CONTACTOR	**Boiler status:** Ash removing (contactor) error **Possible causes:** Problems with ash removing motor device, bad adjustment of thermic protection, problems with contactor.
W9	ASH REMOVING 2 CONTACTOR	**Boiler status:** Ash removing 2 (contactor) error **Possible causes:** Problems with ash removing 2 motor device, bad adjustment of thermic protection, problems with contactor.
W14	FACTORY SETTING LOADED	Factory settings loaded!
W15	NO COMPRESSED AIR	No compressed air.
W16	COMPRESSOR RUNNING TOO LONG (Air loss)	Compressor running too long, possible air loss.
W17	COMPRESSOR SWITCHED OFF MANUALY	Compressor switched off manually.

W18	SERVICE TIME COMPRESSOR	Service time for compressor.
W22	WRONG TIME AND DATE	**Possible causes:** Time and date are not adjusted, it stayed on factory settings.

INFORMATIONS:

INFO.	NAME
I4_1	ASH REMOVING TURNED OFF
I4_2	ASH REMOVING TURNED ON
IW1_1	POWER DOWN
IW1_2	POWER UP

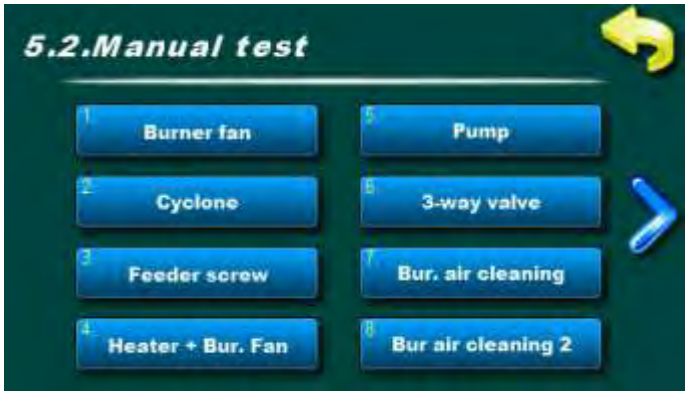
5. OPERATION

5.1. FORCED SHUTDOWN

Option for boiler force shut down. By pressing on „OK" button boiler and all boiler processes will be forced shut down.

Option „FORCED SHUTDOWN" is not usual procedure for turning OFF the boiler.
IMPORTANT! To be able to stop all processes, you must first turn off the boiler in the usual way by pressing and then STOP.

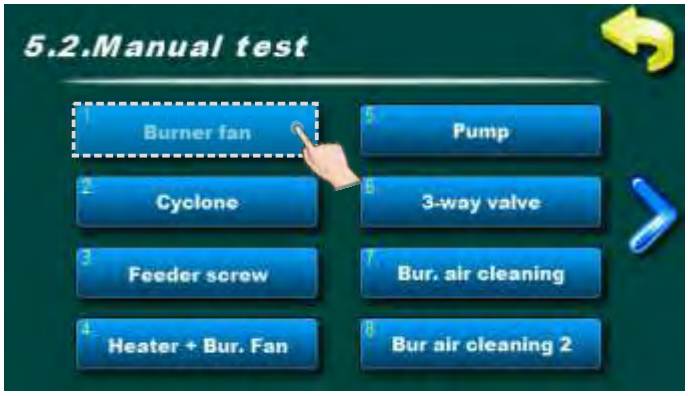
5.2 MANUAL TEST

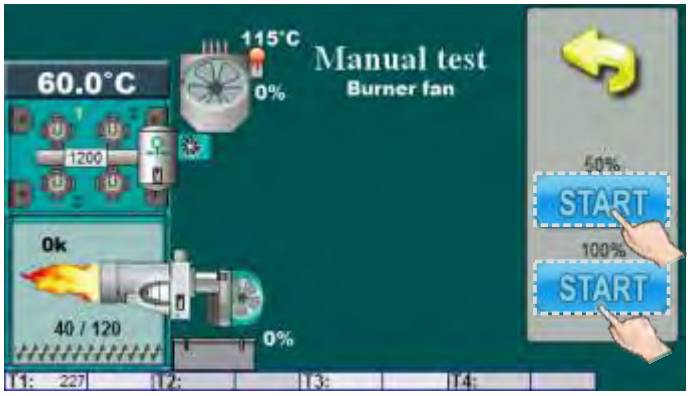


Manual test is an option which enables testing of all parts of the boiler in order to check their technical accuracy.
To make manuals test boiler must be turned off.

NOTE:
„Cyclone" test will be factory placed in menu „5.2. Manual test" for boilers EKO-CKS P UNIT 499-560 because cyclone is standard delivery for that boilers.
For boilers EKO-CKS P UNIT 140-430 „Cyclone" test will be placed in menu „5.2.x. Additional eqipment" and that only if is installed and configured as additional equipment.

5.2.x BURNER FAN

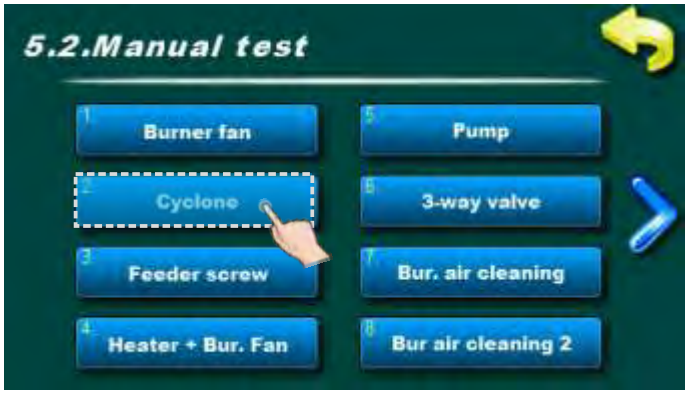


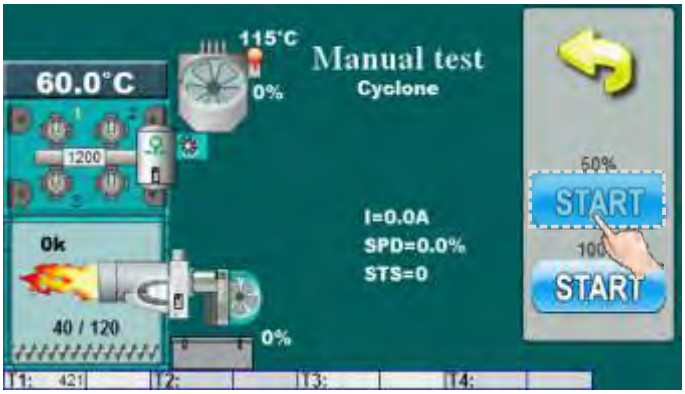


START 50% - fan speed must be on 50%
START 100%-fan speed must be on max. rpm
It is necessary to press the "START" next to the corresponding symbols and check if the fan operates according to the selected option. After pressing the" STOP" fan will turn off. Each time you press" 'START" it becomes" STOP" and vice versa. The display will rotate the fan symbol and will be displayed which speed spinning when the option is active.

5.2.x CYCLONE - (standard equipment for EKO-CKS P UNIT 140-430)

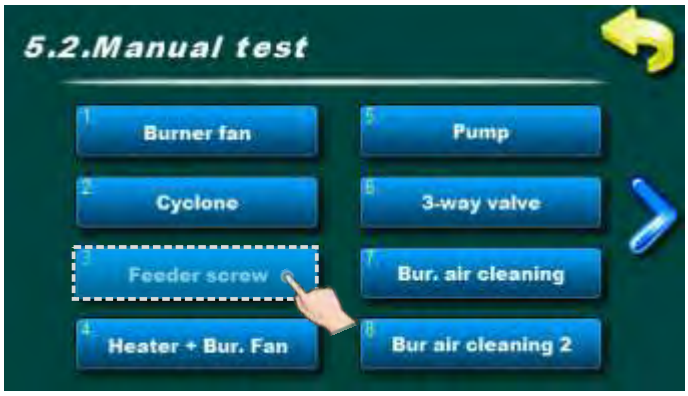
NOTE:
This option will be visible only for boilers EKO-CKS P UNIT 499-560 which have installed cyclone as standard delivery!

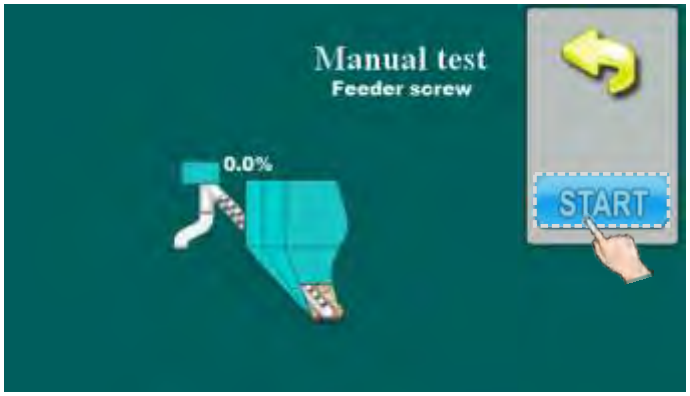




This option allows you to check Cyclone work.

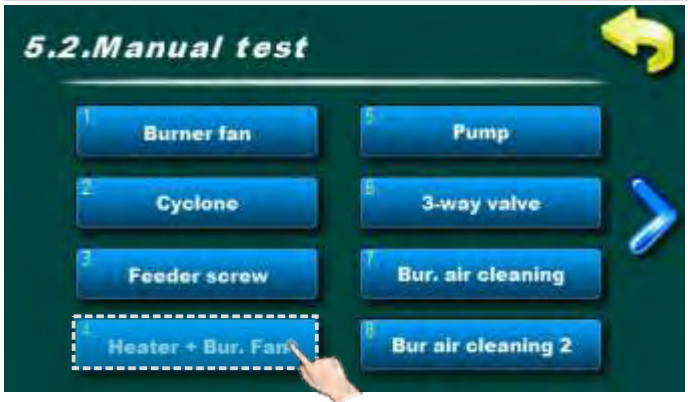
5.2.x FEEDER SCREW

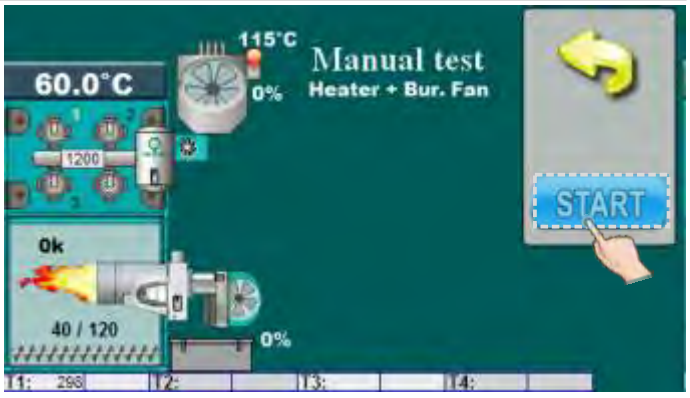




This option allows you to check the motor device of feeding screw.
It is necessary to press the "START" next to the corresponding symbol and check that the motor device of the feeding screw is working. After pressing the" STOP" engine will stop working. Each time you press" 'START" it becomes" STOP" and vice versa. When the option is active, on display will move a symbol of the pellet feeding screw and will show animation falling pellet boiler.

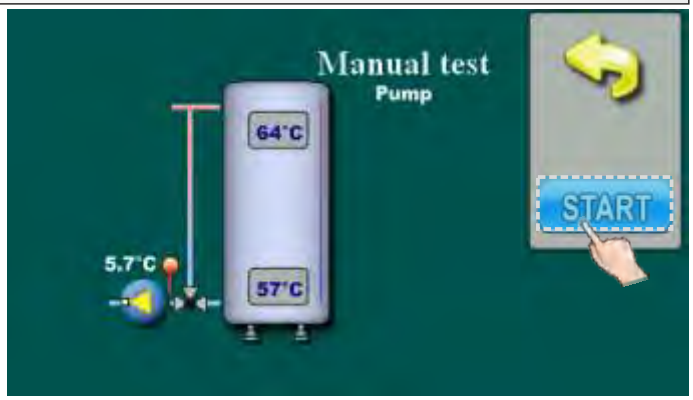
5.2.x ELECTRIC HEATER + BURNER FAN





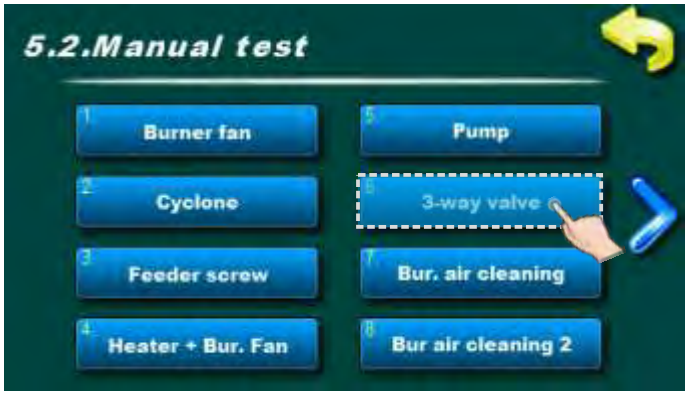
This option allows you to check electric heater and burner fan.
It is necessary to press the "START" next to the corresponding symbol and check if the electric heater and burner fan is working. After pressing the" STOP" electric heater and burner fan will stop working. Each time you press" 'START" it becomes "STOP" and vice versa. The display will show animation of the electric heater and burner fan when the option is active.

5.2.x PUMP



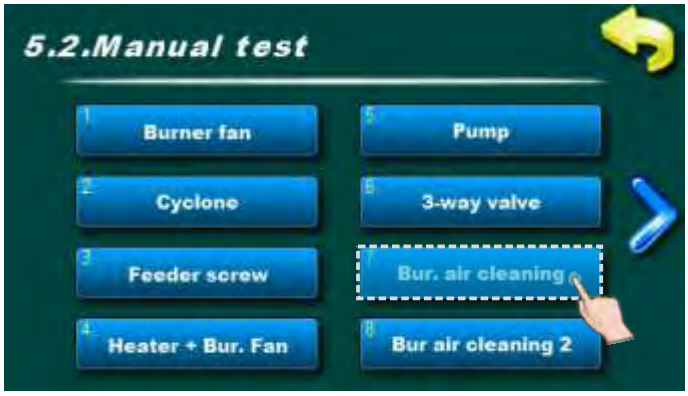
This options enables check of the work for pump between boiler and buffer tank.
It is necessary to press the "START" next to the corresponding symbol and check if the pump work. After pressing the" STOP" pump will stop working. Each time you press" 'START" it becomes "STOP" and vice versa. The display will show animation of the pump.

5.2.x 3-WAY MIXING VALVE



This option allows you to check the work for 3-way mixing valve.
It is necessary to press the "START" next to the corresponding symbol and check if the 3-way mixing valve working. After pressing the" STOP" mixing valve will be stop working. Each time you press "START" it becomes "STOP" and vice versa. On display will be displayed mixing valve opening / closing symbol. When is „CLOSE" button pressed mixing valve must close water flow in from buffer tank. When is „OPEN" button pressed mixing valve must open water flow from buffer tank.

5.2.x BURNER AIR CLEANING



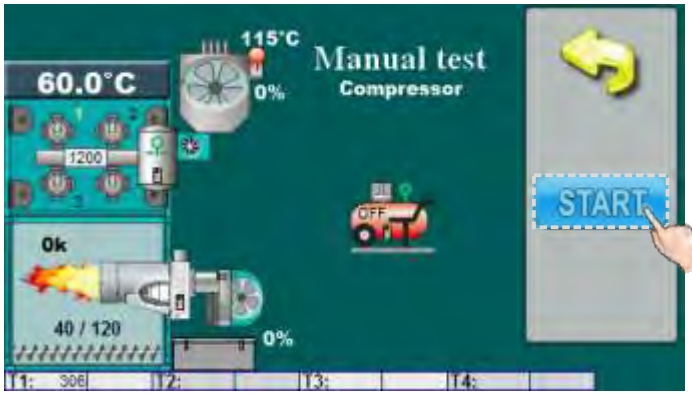
This option allows you to check burner air cleaning work.
It is necessary to press „START" next to the corresponding symbol and check if air cleaning work. After pressing „STOP" burner air cleaning will be stop working. Each time you press" 'START" it becomes "STOP" and vice versa. On display air cleaning symbol will be change color.

5.2.x BURNER AIR CLEANING 2 (only for EKO-CKS P UNIT 140-430)

NOTE:
This option will be visible only for boilers EKO-CKS P UNIT 499-560 which have option for Burner air cleaning 2!

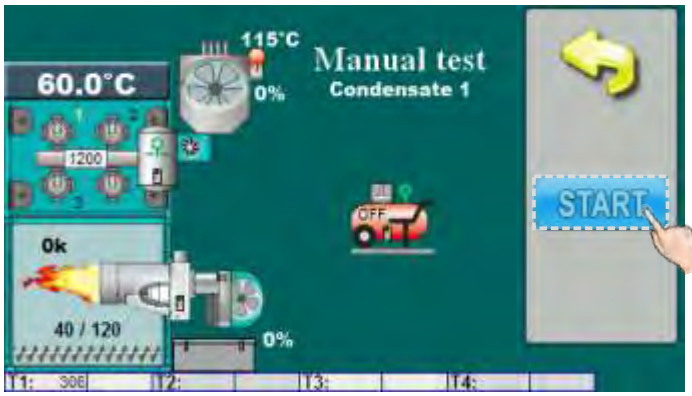
This option allows you to check burner air cleaning 2 work.
It is necessary to press „START" next to the corresponding symbol and check if air cleaning work. After pressing „STOP" burner air cleaning will be stop working. Each time you press" 'START" it becomes "STOP" and vice versa. On display air cleaning symbol will be change color.

5.2.x COMPRESSOR



This option allows you to check compressor work.
It is necessary to press „START" next to the corresponding symbol and check if compressor work. After pressing „STOP" compressor will be stop working. Each time you press" 'START" it becomes "STOP" and vice versa. On display will be displayed „ON" marker on compressor symbol.

5.2.x CONDENSATE 1

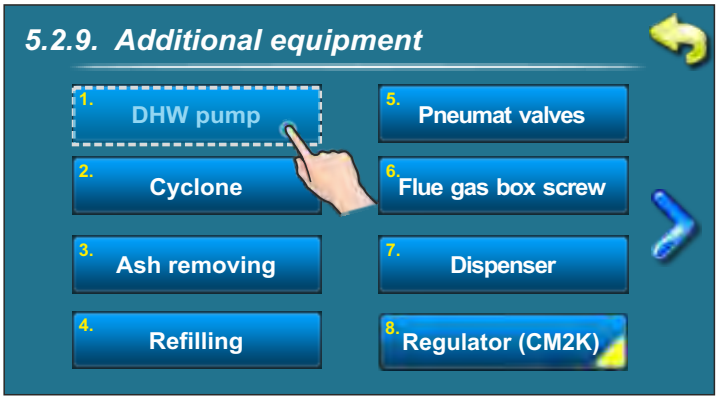


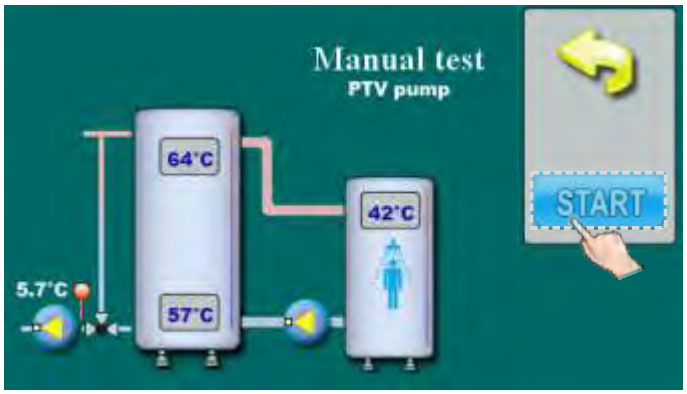
This option allows you to check work of valve for condensate drainage 1. By pressing „START" valve will be opened.

5.2.9 MANUAL TEST OF ADDITIONAL EQUIPMENT

This option enables testing additional equipment.

5.2.9.x DHW PUMP - (additional equipment)

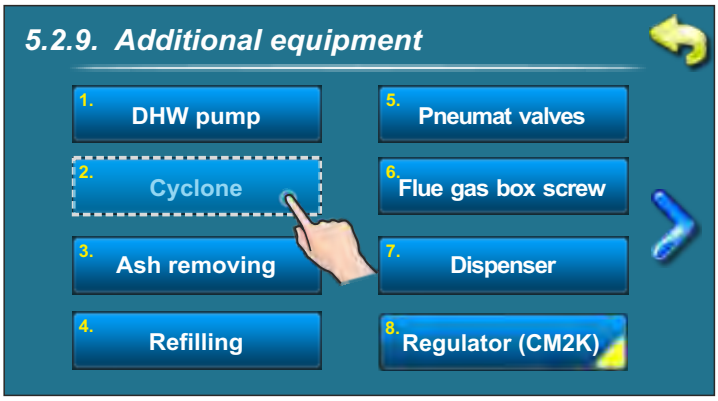


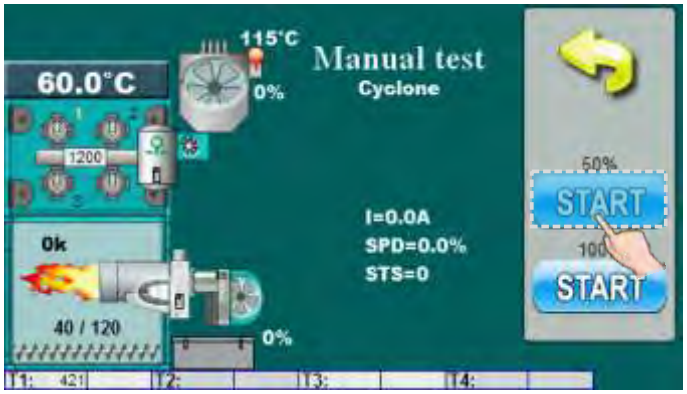


This option allows you to check DHW pump.

5.2.9.x CYCLONE - (additional equimpent for EKO-CKS P UNIT 140-430)

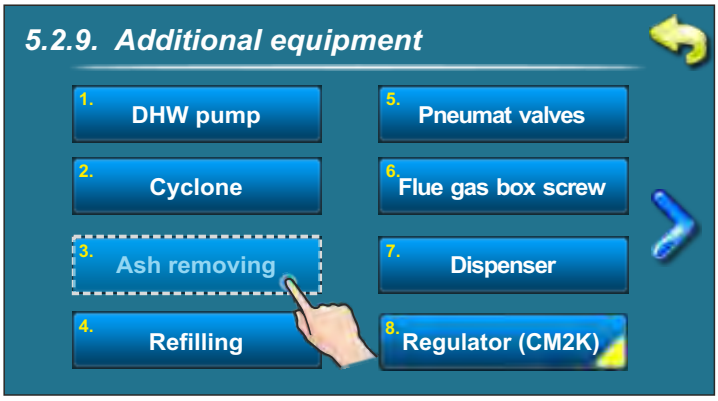
NOTE:
This option will be visible only for boilers EKO-CKS P UNIT 140-430 which have installed cyclone as additional equipment!
Boilers EKO-CKS P UNIT 499-560 have installed cyclone as standard delivery and manual test will be in menu „5.2. Manual test".

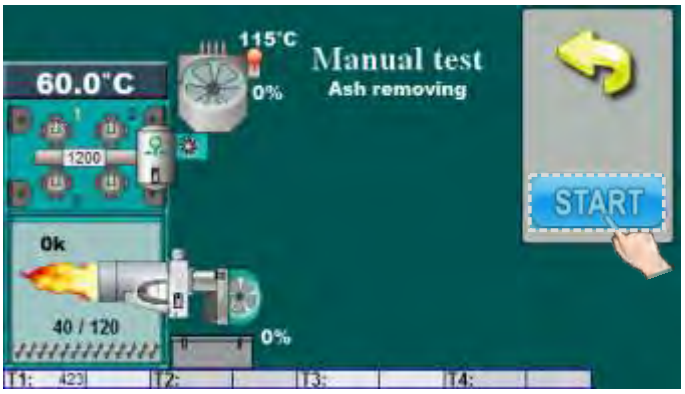




This option allows you to check Cyclone work.

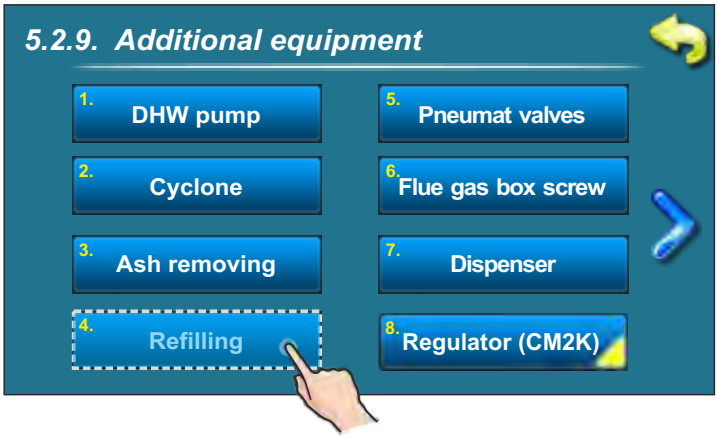
5.2.9.x ASH REMOVING - (additional equipment)





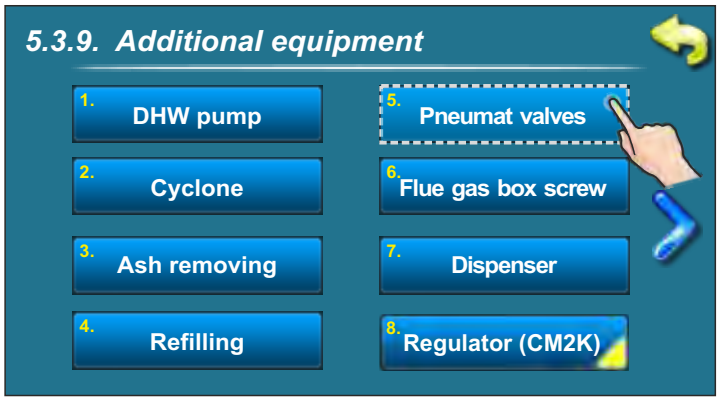
This option allows you to check work of ash removing by conveyor.

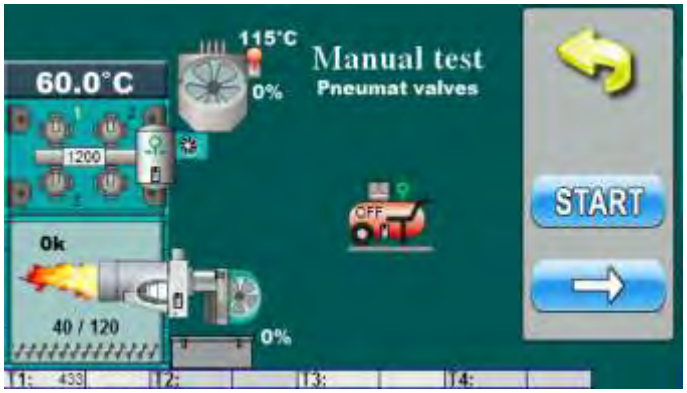
5.2.9.x REFILLING - (additional equipment)



This option allows you to check work of refilling system.

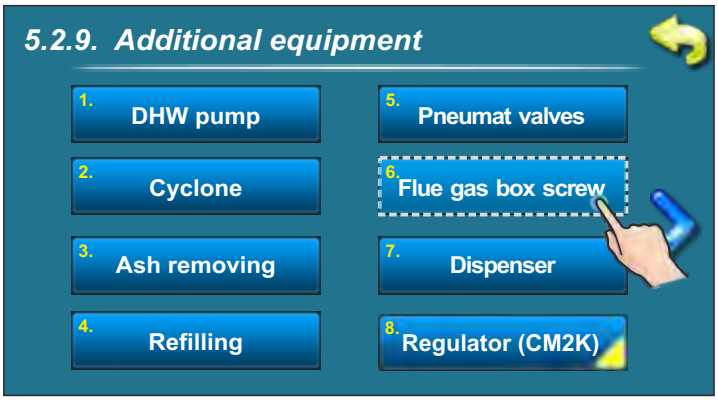
5.3.9.x PNEUMAT VALVES - (additional equipment)

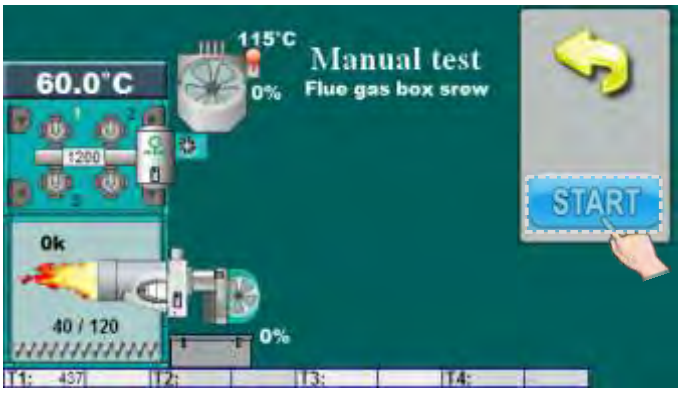




This option allows you to check work of pneumat valves.

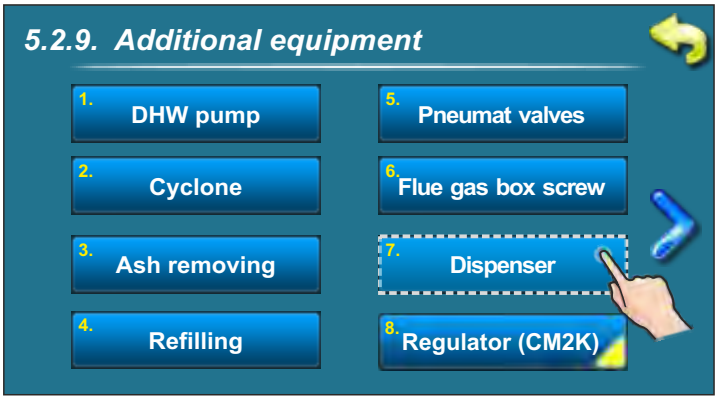
5.2.9.x FLUE GAS BOX SCREW - (additional equipment)

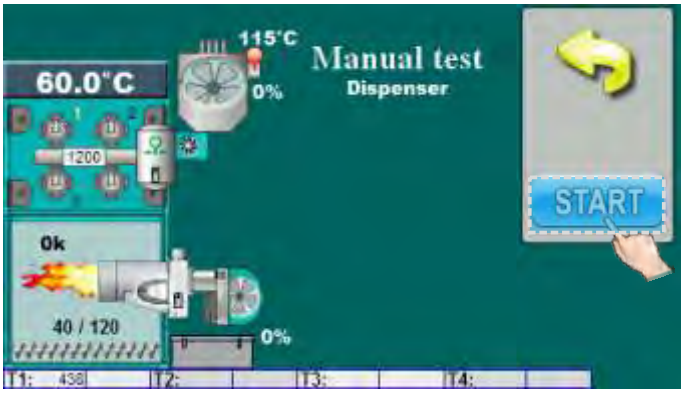




This option allows you to check work of flue gas box cleaning system.

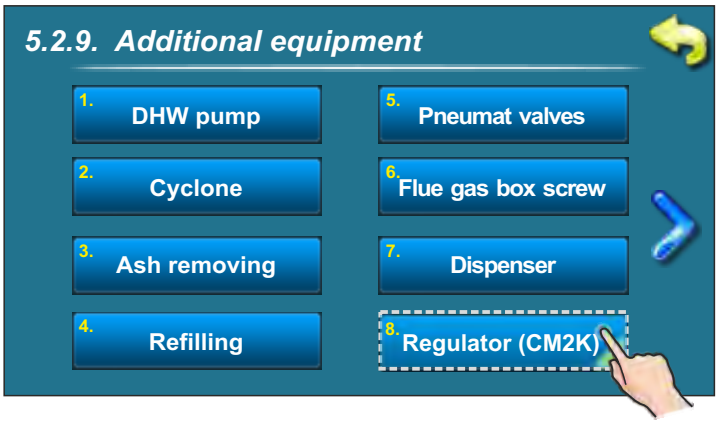
5.2.9.x DISPENSER - (additional equipment)





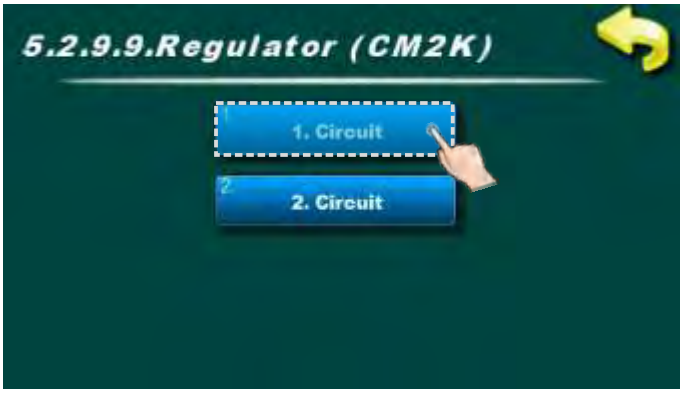
This option allows you to check work of fuel dispenser.

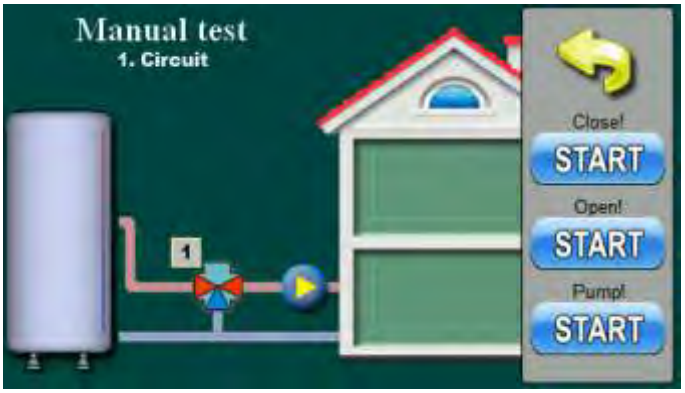
5.2.9.x REGULATOR CM2K - (additional equipment)



5.2.9.x REGULATOR CM2K - (additional equipment)

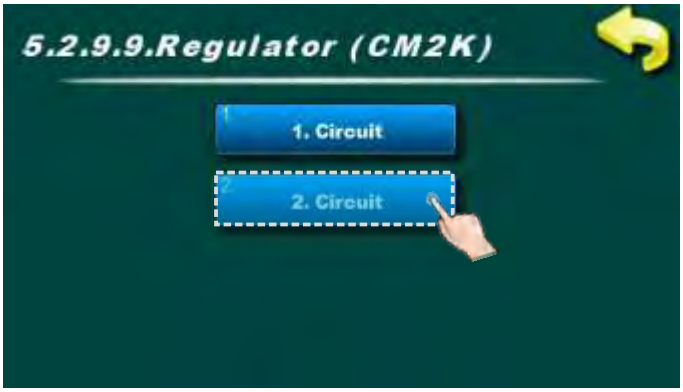
5.2.9.x.1 REGULATOR CM2K - 1. CIRCUIT (additional equipment)

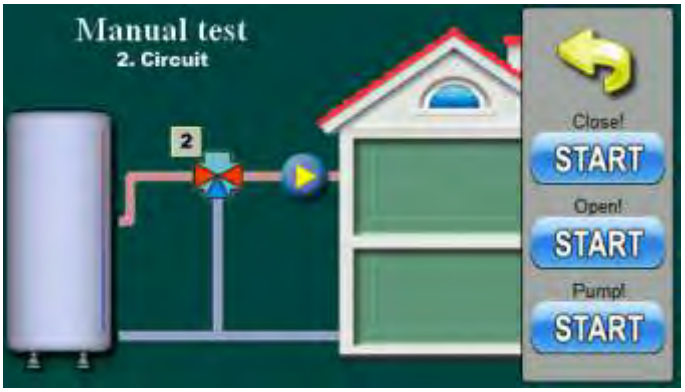




This option allows you to check work pump and mixing valve on 1. heating circuit.

5.2.9.x.2 REGULATOR CM2K - 2. CIRCUIT (additional equipment)

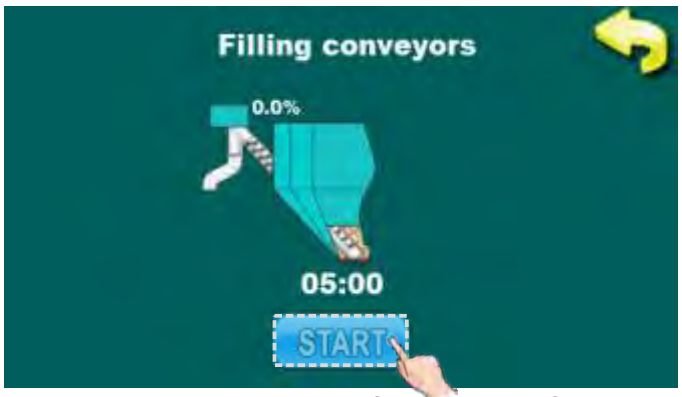




This option allows you to check work pump and mixing valve on 2. heating circuit.

Note: Number od heating circuit depend about installed number of CM2K modules!

5.3 FILLING CONVEYOR



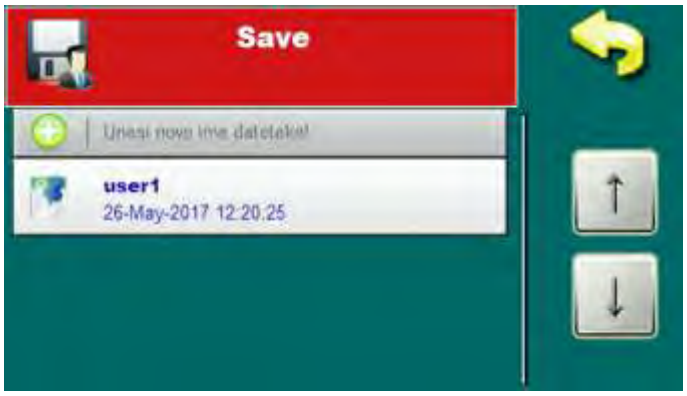
This option allow filling of empty feeder screw with pellets. At start-up or missing fuel, when is feedery screw empty this option is used for filling feeder screw. By pressing „START" feeder screw start with work. This option must be turned on until fuel start droping from feeder screw.

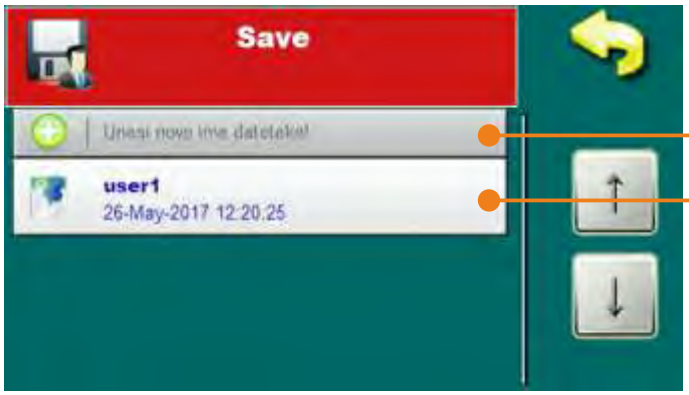
5.4 WEIGHING CHECK

This option allow weighing feeder screw supply in set time.

5.5 SAVE / LOAD

5.5.1 SAVE

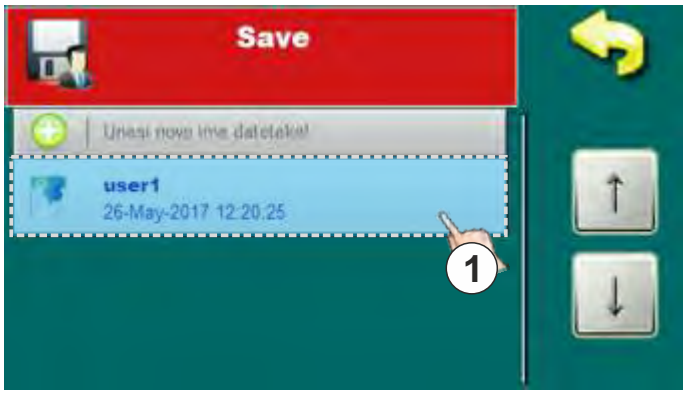




Button for saving settings in new image

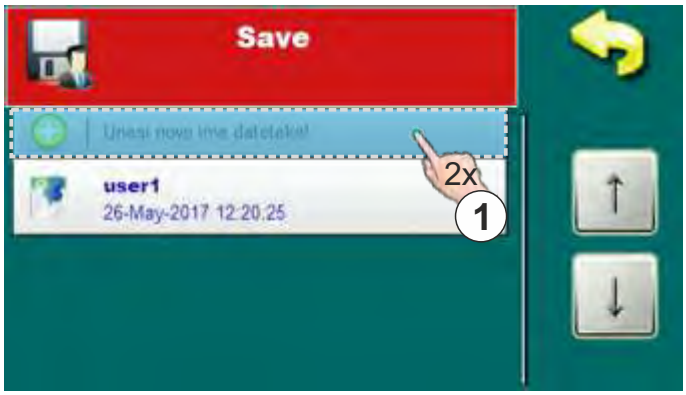
Existing saved image (if exist)

SAVING ADJUSTMENTS IN EXISTING IMAGE



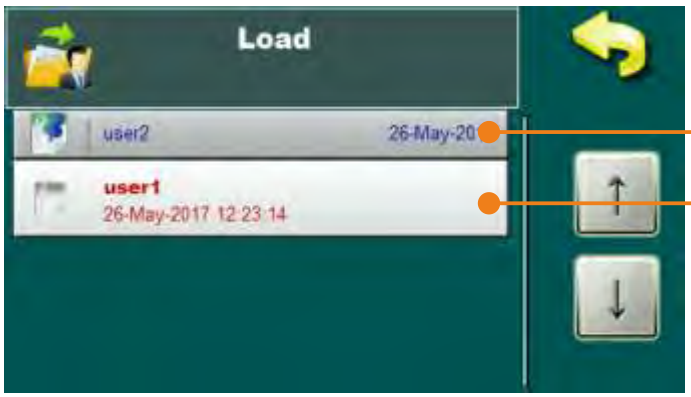
For saving in existing image is necessary to press on exist image (1). On display will be displayed message „Are you sure?". Is necessary to confirm message (2) and press button for saving confirmation (3). On display will be displayed message „Successful" which mean that settings are successful saved. Confirm message by pressing button (4).

SAVING ADJUSTMENTS IN NEW IMAGE



For saving in new image is necessary to press twice on button (1). On display will be displayed option for image name entry. Is necessary to enter image name through numerical part (2). To confirm name press button (3). On display will be displayed message „Successful" which mean that settings are successful saved. Confirm message by pressing button (4).

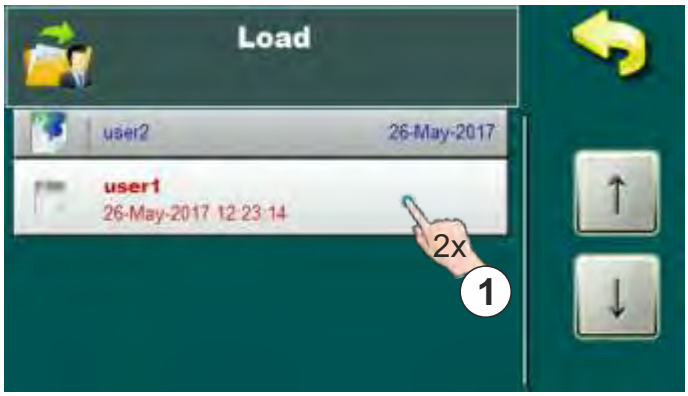
5.5.2. LOAD

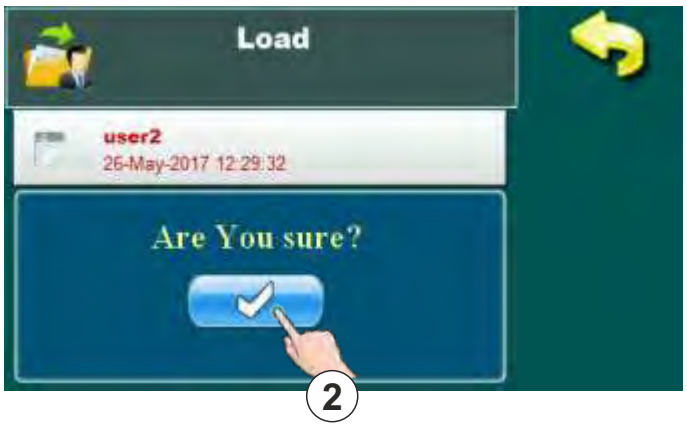


Saved image

Saved image

PROCEDURE FOR LOAD IMAGE





For loading is necessary choose image which we want to load and press on it (1). On display will be displayed message „Are you sure?". Is necessary to confirm message (2). On display will be displayed message „Successful" which mean that settings are successful loaded. Confirm message by pressing button (3).

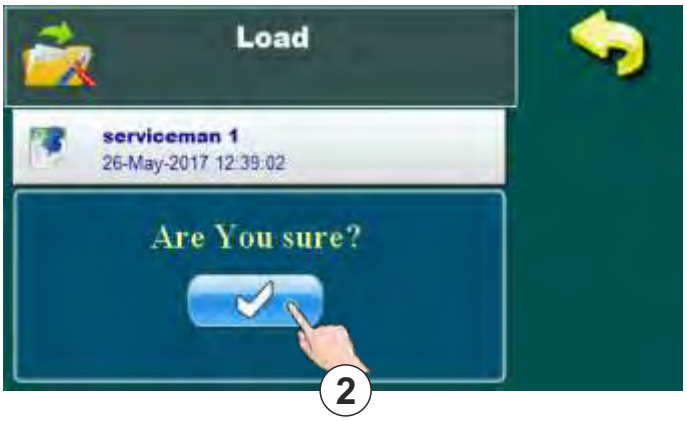
5.5.3. LOAD SERVICE

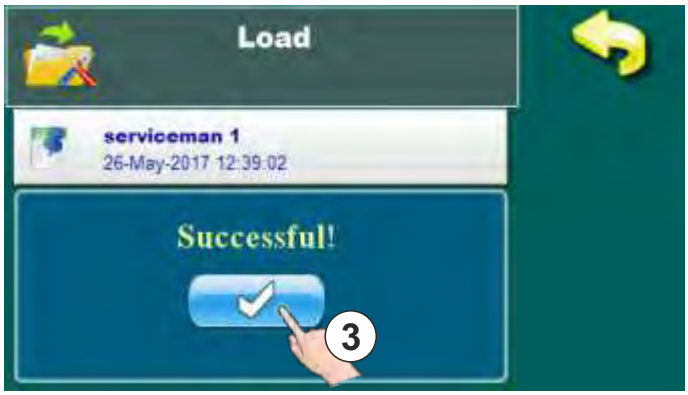
If is needed, with this option i always possible to load setting which is serviceman adjust and saved at first start-up.

Adjusted fuel for which are saved settings

Saved image with serviceman settings

PROCEDURE FOR LOAD SERVICEMAN IMAGE

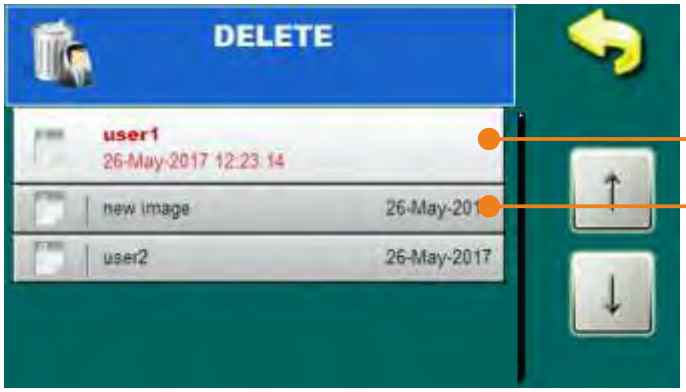




For loading of serviceman settings is necessary to choose image which we want to load and press on it (1). On display will be displayed message „Are you sure?". Is necessary to confirm message (2). On display will be displayed message „Successful" which mean that settings are successful loaded. Confirm message by pressing button (3).

5.5.4. DELETE

If is needed, with this option is possible to delete saved images.



Saved image

Saved image

PROCEDURE FOR DELETING IMAGE

For delete image is necessary to choose exist image which we want to delete and press on it (1). On display will be displayed message „Are you sure?". Is necessary to confirm message (2) and press button for saving confirmation (3). On display will be displayed message „Successful" which mean that image are successful deleted. Confirm message by pressing button (4).

5.6 STANDARD EQUIPMENT

NOTE:
„Cyclone" will be factory placed in menu „5.6. Standard equipment" for boilers EKO-CKS P UNIT 499-560 because cyclone is standard delivery for that boilers.
For boilers EKO-CKS P UNIT 140-430 „Cyclone" will be placed in menu „5.7. Additional eqipment" and that only if is installed and configured as additional equipment.

5.6.x FEEDER SCREW

This option allow preview of feeder screw parameters. User can't change this parameters.

5.6.x COMPRESSED AIR

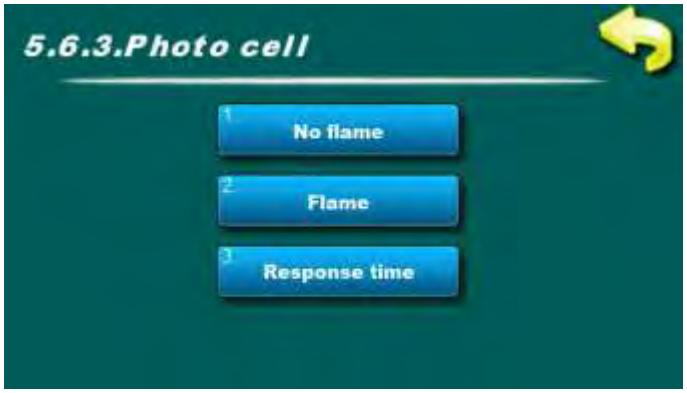
This option allow preview of compressed air parameters. User can't change this parameters.

5.6.x CYCLONE

NOTE:
This option will be visible only for boilers EKO-CKS P UNIT 499-560 which have installed cyclone as standard delivery!

This option allow preview of cyclone parameters. User can't change this parameters.

5.6.x PHOTOCELL

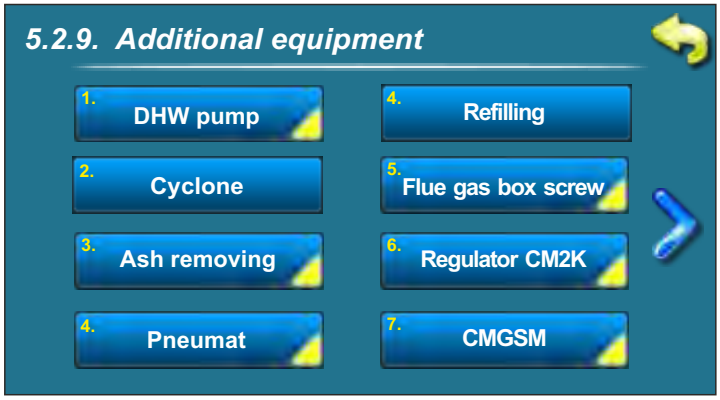


This option allow preview of photocell parameters. User can't change this parameters.

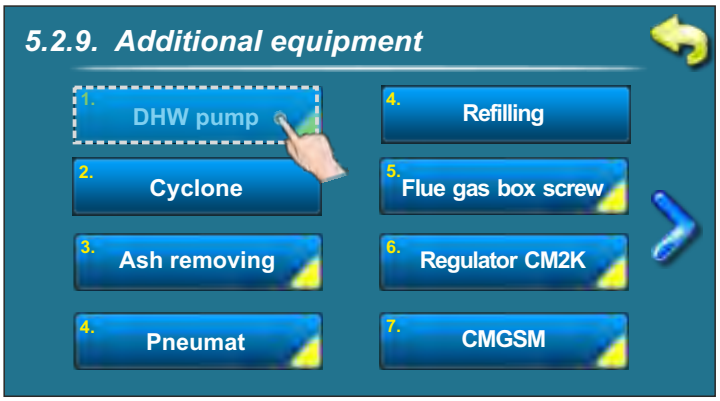
5.6.x 3-WAY MIXING VALVE

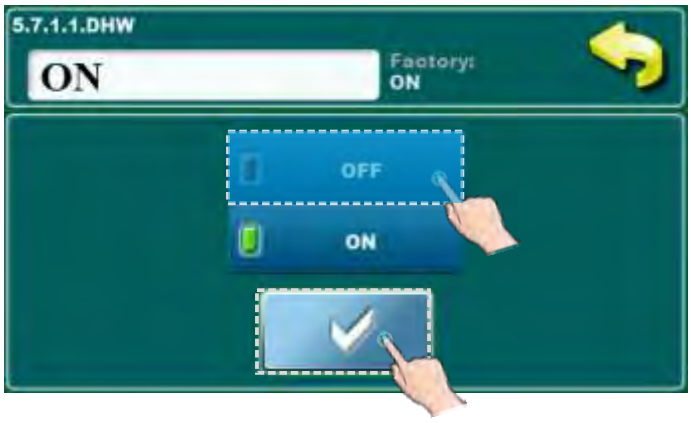
This option allow preview of 3-way mixing valve parameters. User can't change this parameters.

5.7 ADDITIONAL EQUIPMENT (for equipment which was installed)



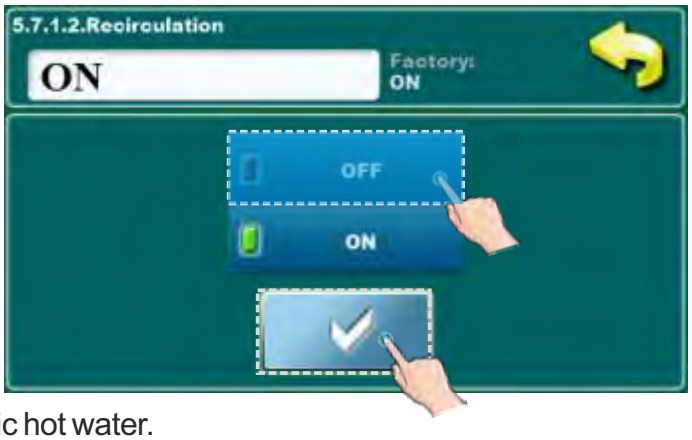
5.7.x.1 DHW





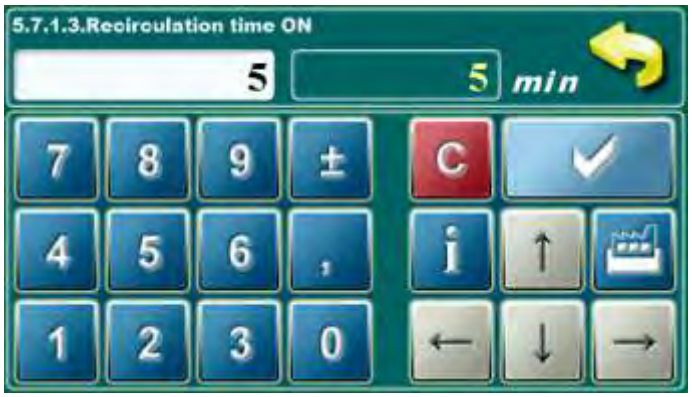
This option allow domestic hot water turning on / off.

5.7.x.2 RECIRCULATION (if is configured)



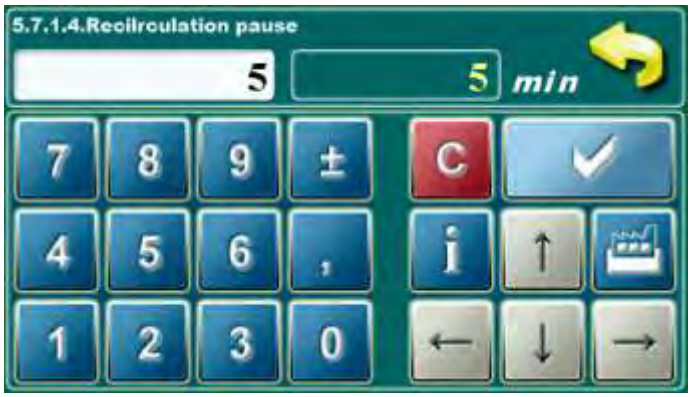
This option allow turning on / off recirculation of domestic hot water.

5.7.x.3 RECIRCULATION TIME ON (if is configured)



In this parameter is possible to adjust working time for recirculation.
Possible adjustment:
- Factory adjusted: 5 min
- Minimal adjustment value: 0 min
- Maximal adjustment value: 1440 min

5.7.x.4 RECIRCULATION PAUSE (if is configured)



In this parameter is possible to adjust recirculation pause time.

Possible adjustment:

- Factory adjusted: 5 min

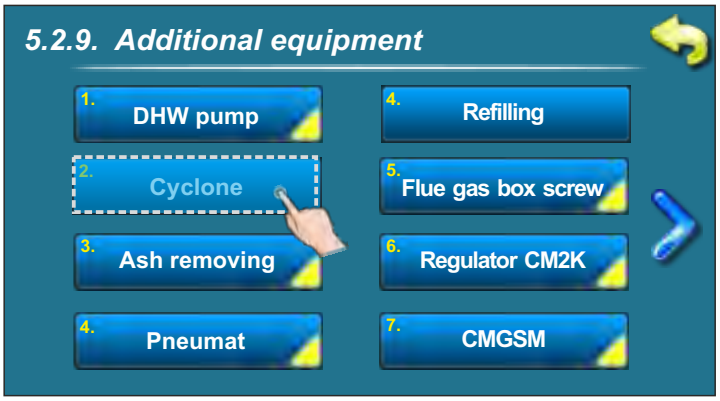
- Minimal adjustment value: 0 min
- Maximal adjustment value: 1440min

5.7.x CYCLONE (additional equimpent for EKO-CKS P UNIT 140-430)

NOTE:

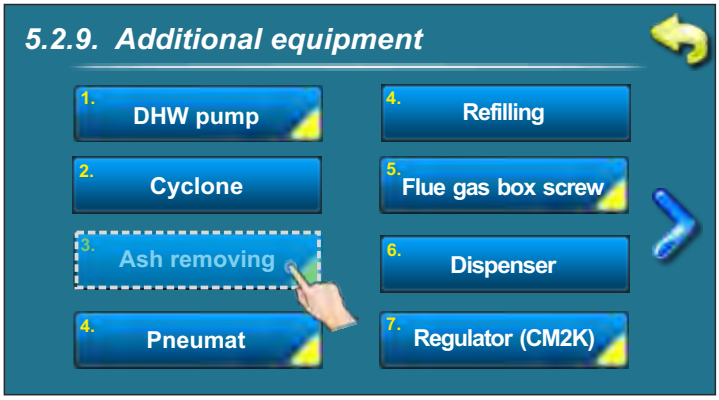
This option will be visible only for boilers EKO-CKS P UNIT 140-430 which have installed cyclone as additional equipment!

Boilers EKO-CKS P UNIT 499-560 have installed cyclone as standard delivery and this will be in menu „5.6. Standard equipment".



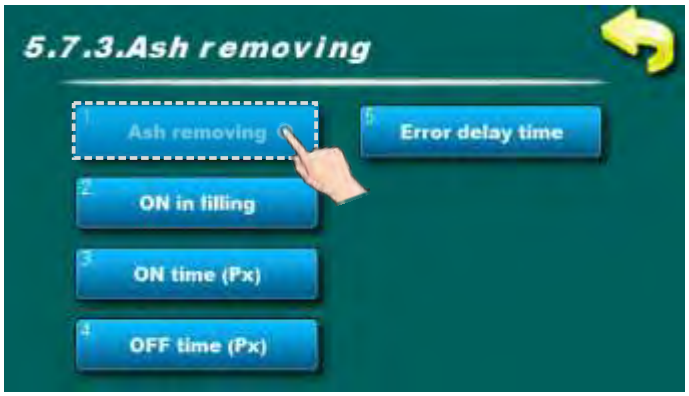
It's not possible to adjust this parameter.

5.7.x ASH REMOVING



This option allow adjustment of ash removing system.

5.7.x.1 AHS REMOVING



It's not possible to change this parameter.

5.7.x.2 ON IN FILLING

It's not possible to change this parameter.

5.7.x.3 ON TIME (Px)

In this parameter is possible to adjust ash removing working time.
Possible adjustment:
- Factory adjusted: 40sec
- Minimal adjustment value: 1°C
- Maximal adjustment value: 7200°C

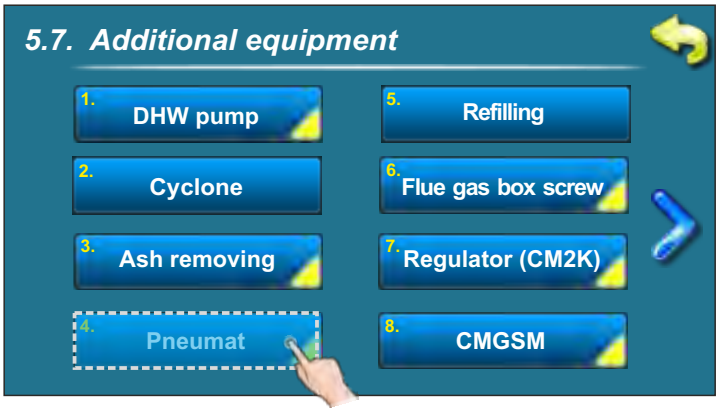
5.7.x.4 OFF TIME (Px)

In this parameter is possible to adjust ash removing off time.
Possible adjustment:
- Factory adjusted: 120min
- Minimal adjustment value: 30 min
- Maximal adjustment value: 360 min

5.7.x.5 ERROR DELAY TIME

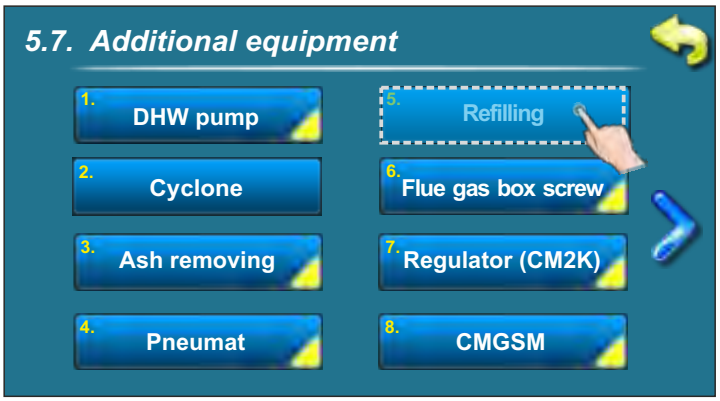
It's not possible to change this parameter.

5.7.x PNEUMAT



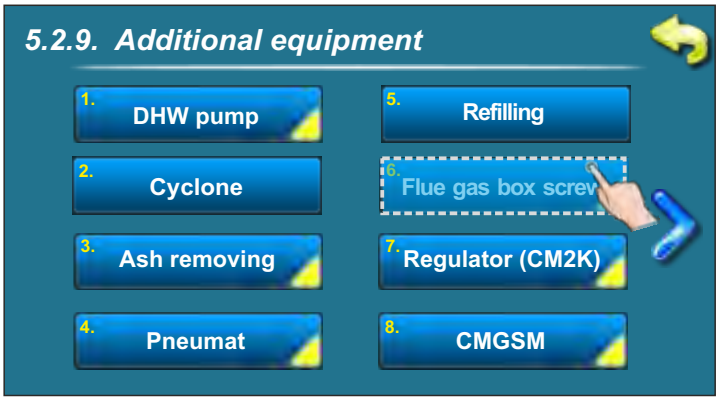
This option allow preview of pneumat parameters. User can't change this parameters.

5.7.x REFILLING



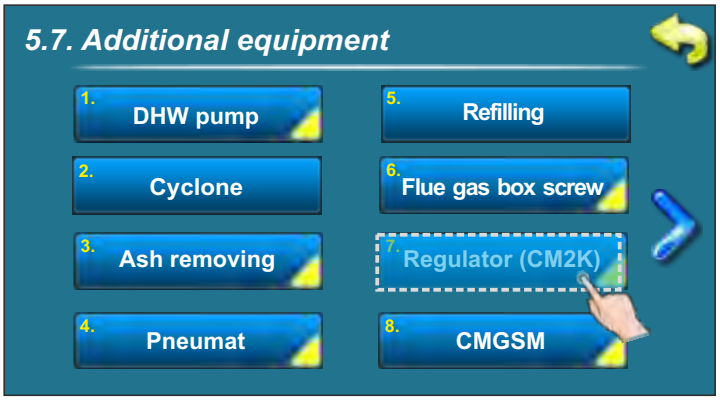
User can't preview this settings.

5.7.x FLUE GAS BOX SCREW



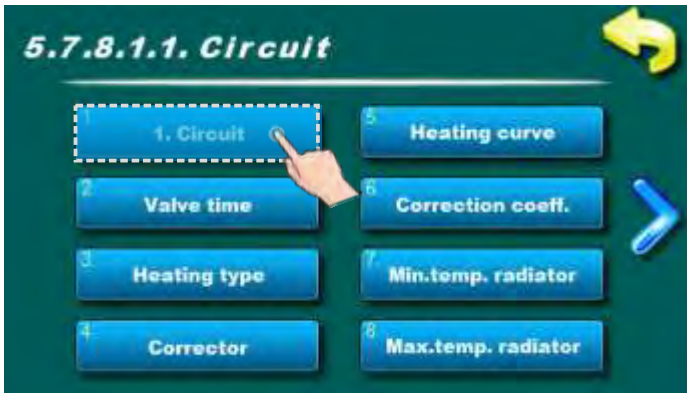
This option allow preview of flue gas box cleaning parameters. User can't change this parameters.

5.7.x REGULATOR CM2K



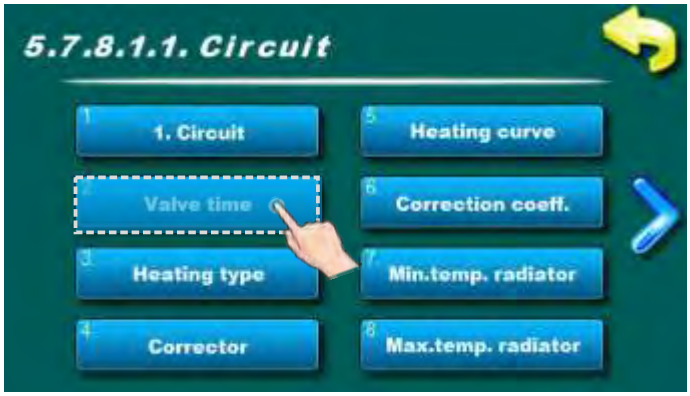
In this menu is possible to change parameters for heating circuits. Number of heating circuits depend about number of installed CM2K modules.

5.7.x.x.1. 1. CIRCUIT / 2. CIRCUIT / 3.CIRCUIT / 4. CIRCUIT...



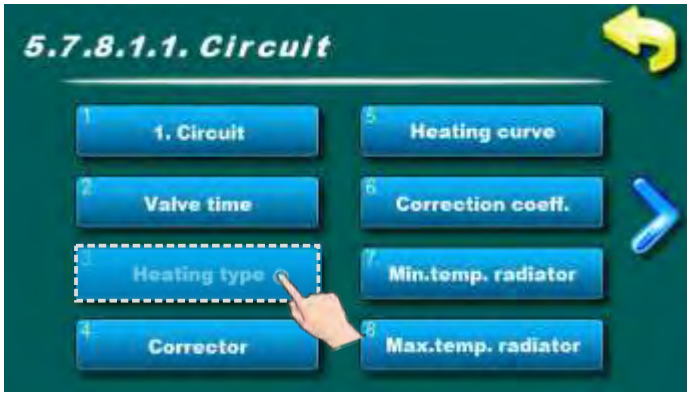
In this parametes is possible to turn on / off heating circuit.

5.7.x.x.2. VALVE TIME



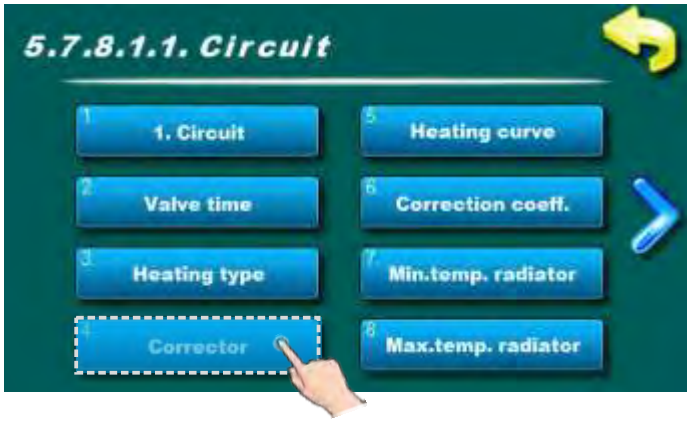
This parameter is available only for preview. It's not possible to change this parameter.

5.7.x.x.3. HEATING TYPE



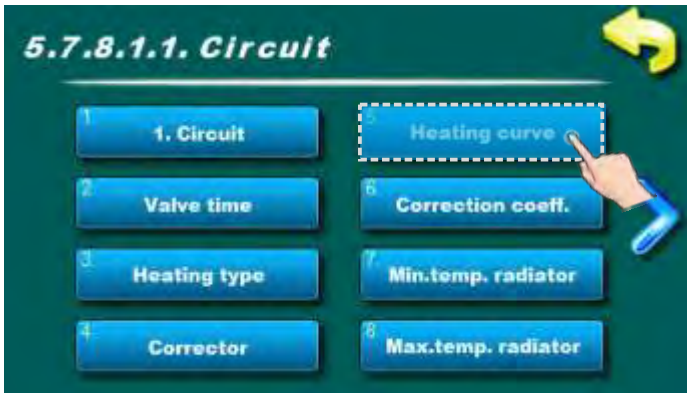
This parameter is available only for preview. It's not possible to change this parameter.

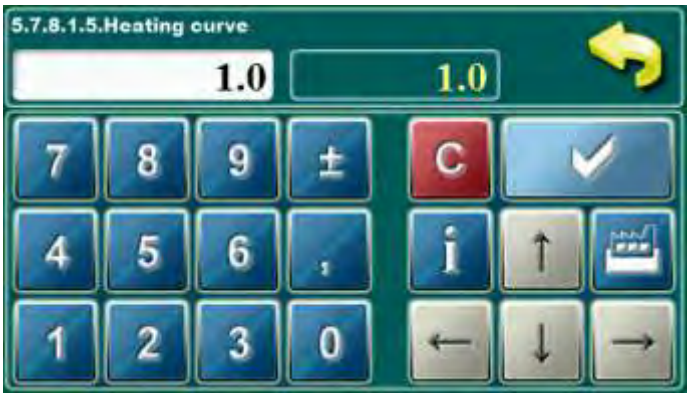
5.7.x.x.4. CORRECTOR



This parameter is available only for preview. It's not possible to change this parameter.

5.7.x.x.5. HEATING CURVE

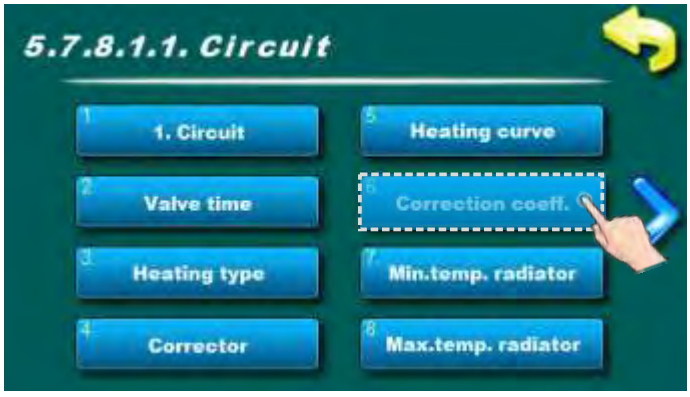


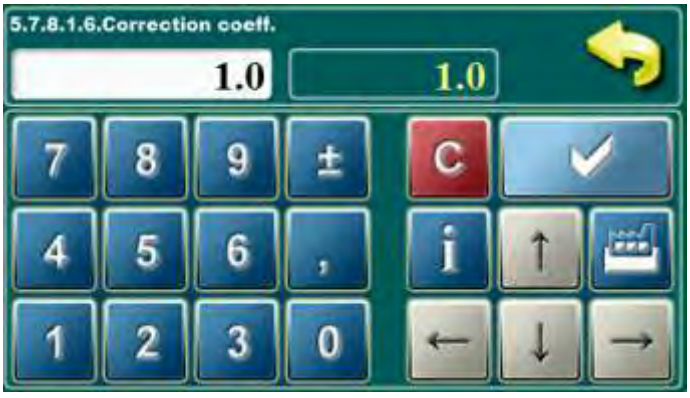


This parameter determine the coefficient of the heating curve. The regulation calculate required flow temperature according to the heating curve and outside temperature to achieve the desired room temperature.

Possible adjustment: - Factory adjusted: 1
- Minimal adjustment value: 0,1
- Maximal adjustment value: 4,0

5.7.x.x.6. CORRECTION COEFF.

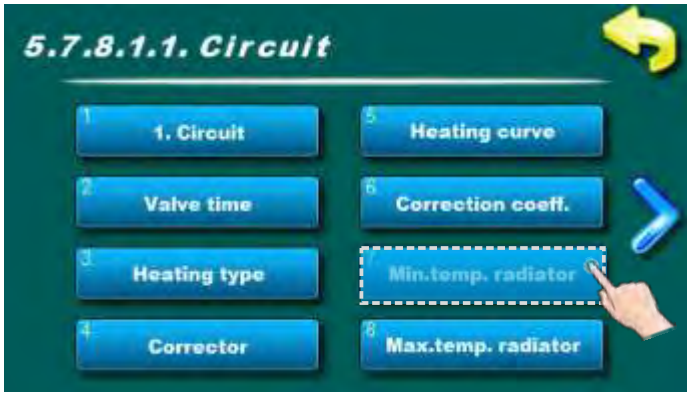


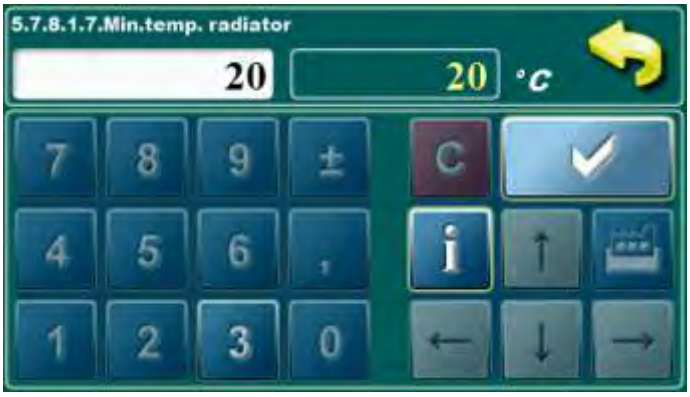


This parameter determines the influence of the room corrector. When this coefficient is larger, room corrector will more affect to the calculated required flow temperature in the heating circuit.

Possible adjustment: - Factory adjusted: 1
- Minimal adjustment value: 0,1
- Maximal adjustment value: 5,0

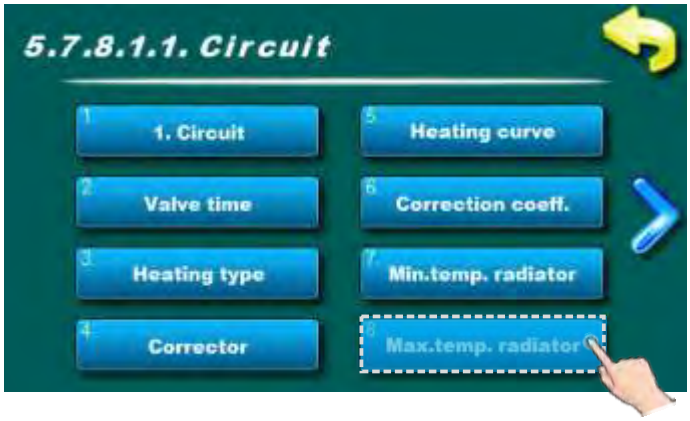
5.7.x.x.7. MINIMAL TEMPERATURE RADIATOR

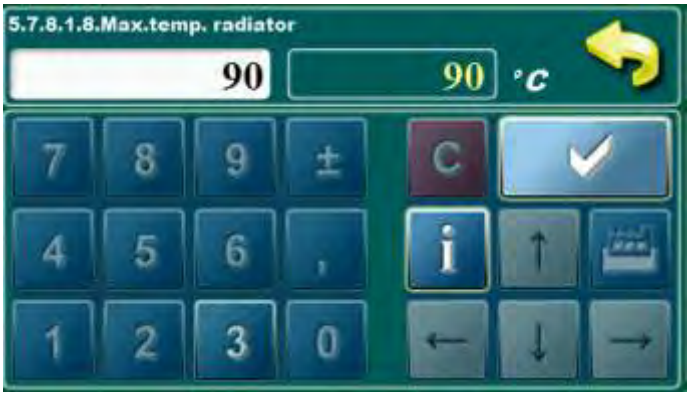




This parameter is available only for preview. It's not possible to change this parameter.

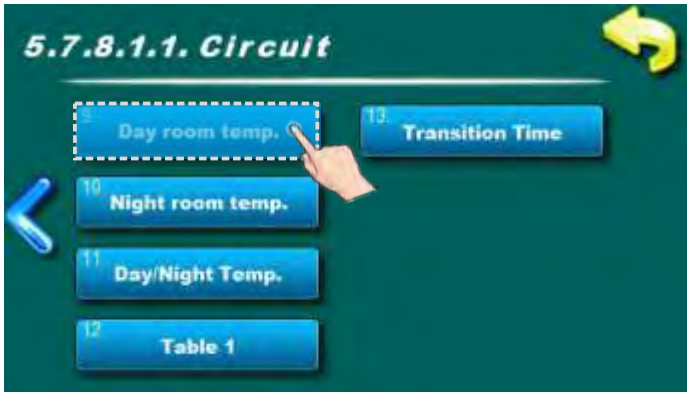
5.7.x.x.8. MAXIMAL TEMPERATURE RADIATOR

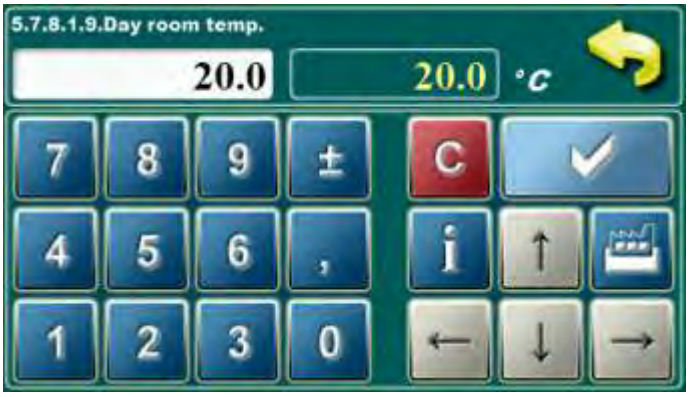




This parameter is available only for preview. It's not possible to change this parameter.

5.7.x.x.9. DAY ROOM TEMPERATURE

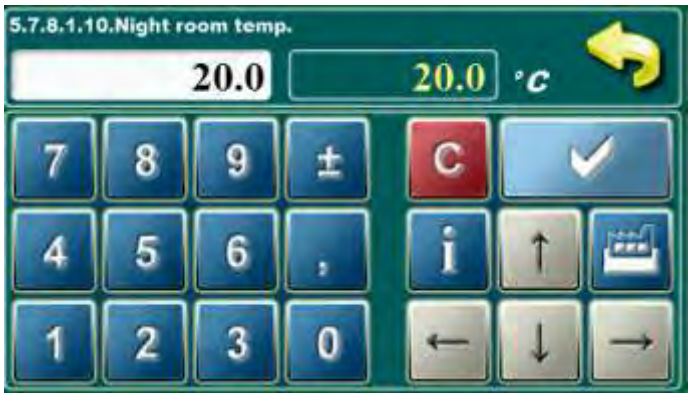




This parameter determines the value of day room temperature.

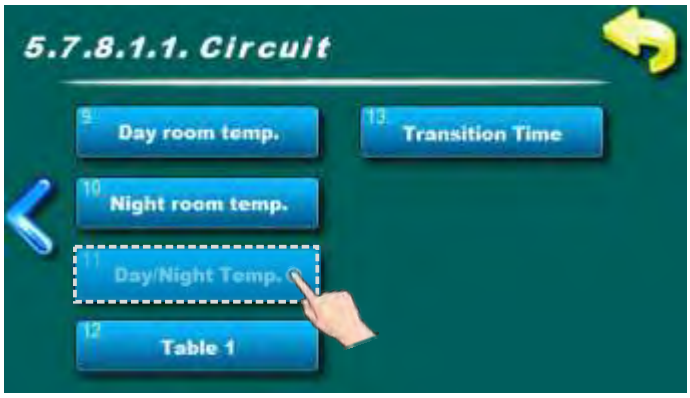
Possible adjustment: - Factory adjusted: 20,0°C
- Minimal adjustment value: 5°C
- Maximal adjustment value: 30,0°C

5.7.x.x.10. NIGHT ROOM TEMPERATURE



This parameter determines the value of night room temperature.
Possible adjustment: - Factory adjusted: 20,0°C
- Minimal adjustment value: 5°C
- Maximal adjustment value: 30,0°C

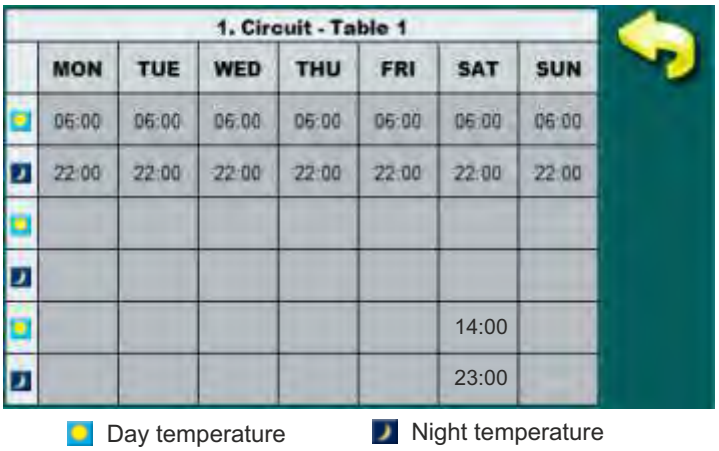
5.7.x.x.11. DAY / NIGHT TEMPERATURE



This option enables you to choose type of desired temperature (day, night or table.) In next page you can see how to fill a table.

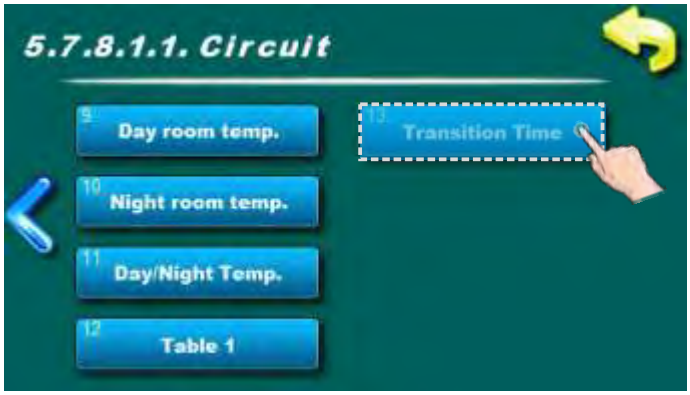
Possible selection:
- Factory selected: Day temperature
- Possible selection: Day temperature, Night temperature, Table

5.7.x.x.12. TABLE 1



Each cell marks the beginning of some type (day/night) of selected room temperature.
According to this table every day from monday at 06:00 am is activated day room temperature, until 22:00 pm when is activated night room temperature until tuesday, when at 06:00 am is again activated day room temperature.
On saturday, the day temperature is activated at 05:00 am and works until 10:00 am when is switched to night temperature. At 14:00 pm is again activated day room temperature up to 23:00 pm when is again switched to night temperature.
When passed one cycle (week) circle starts again from the beginning. The values of a day/night room temperature can be selected as is described in previous pages.

5.7.x.x.13. TRANSITION TIME

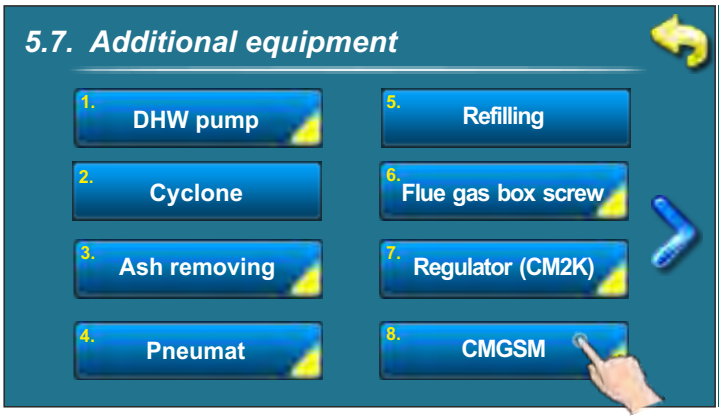


This parameter is used only when configuration doesn't contain room corrector, because regulation doesn't have information of room temperature.

This parameter is time which is presumed that the system will achieve a given room temperature in a transition from day to night mode, and vice versa. So, this is time in which will "flow temperature" be optimally adjusted to achieve quick transition.

Possible adjustment: - Factory adjusted: 3600sec
- Minimal adjustment value: 0 sec
- Maximal adjustment value: 18000 sec

5.7.10. CMGSM



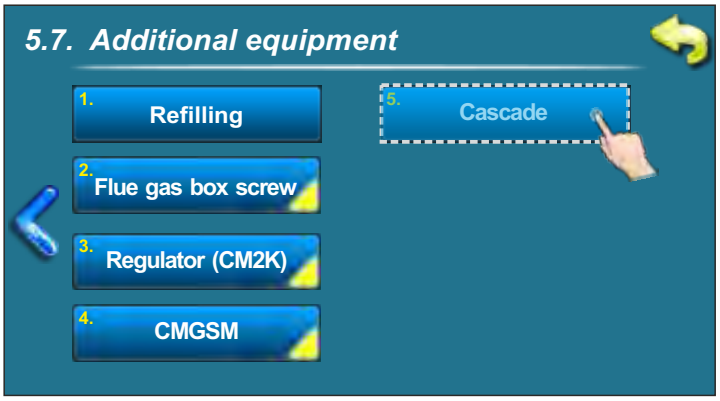
5.7.10.1. SMS-CALL

Option for turning on / off sms-call (if is installed and configured).
Possible selection:
- Factory selected: OFF
- Possible selection: ON, OFF;

5.7.10.2. INTERNET SUPERVISION

Option for turning on / off internet supervision (if is installed and configurated).
Possible selection:
- Factory selected: OFF
- Possible selection: ON, OFF;

5.7.11 CASCADE



5.7.11.1. CASCADE

This option allow preview of cascade selection. User can't change this parameter.

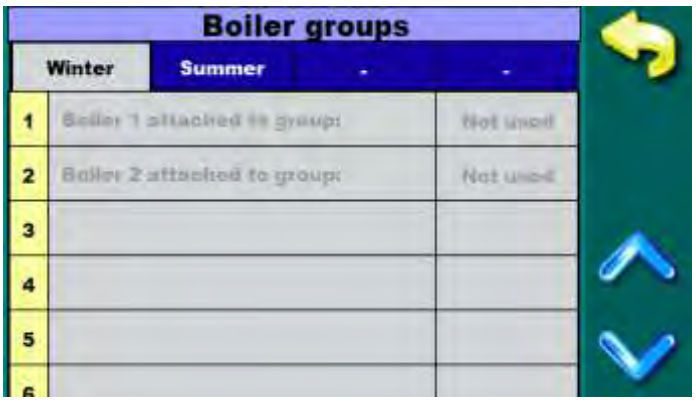
5.7.11.2. DEVICE NUMBER

This option allow preview of device number adjustment. User can't change this parameter.

5.7.11.3. DEVICE ADRESS

This option allow preview of device adress selection. User can't change this parameter.

5.7.11.4. BOILER GROUPS



This option allow preview of boiler groups selection. User can't change this parameter.

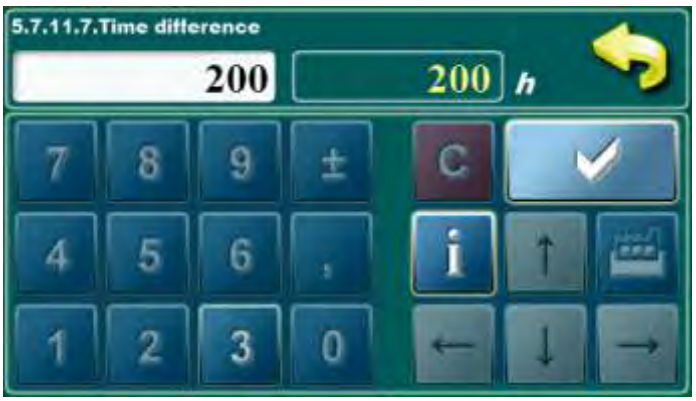
5.7.11.5. TIME TO ON

This option allow preview of time to ON adjustment. User can't change this parameter.

5.7.11.6. TIME TO OFF

This option allow preview of time to OFF adjustment. User can't change this parameter.

5.7.11.7. TIME DIFFERENCE

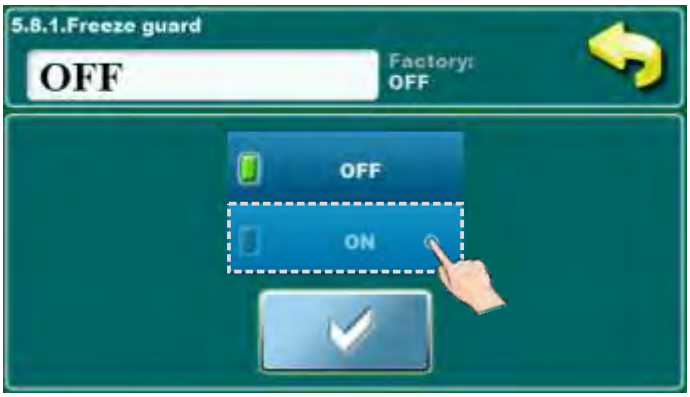


This option allow preview of time difference adjustment. User can't change this parameter.

5.7.11.8. COUNTER RESET

This option allow you to reset counter.

5.8 FREEZE GUARD



Option for freeze guard turning on / off.
Possible selection:
- Factory selected: OFF
- Possible selection: OFF, ON;

5.9. WORK MODE

Option for work mode choose.
Possible selection:
- Factory selected: Winter(Heating + DHW)
- Possible selection: Winter (Heating + DHW), Summer (DHW);

6. DISPLAY

6.1 SCREENSAVER

Of at some time nothing was pressed on the screen, the screensaver will turn on, to prevent damage on the screen. Once you touch the screen the screensaver will be turned off.

Possible adjustment:

- Factory adjusted: 600 sec

- Minimal adjustment value: 10 sec
- Maximal adjustment value: 3600 sec

6.2 LANGUAGE SELECTION

This option enables or disables screen with the choice of language regulation when you turn on main switch. If is marked "DISABLED", after turning-on the main switch, it will be set on before selected language and after some time, display will show the work display of the boiler.(The time until this screen appears can be adjusted in point 6.3.)

Possible selection:

- Factory selected: ON

- Possible selection: ON, OFF;

IMPORTANT!

Automatically resume boiler operation after the disappearance of electric power (PF phases) is not possible if language selection option is turned on.

6.3 INITIAL MESSAGE TIME

This option is used to set the desired duration of the initial message after turning on the main switch. This option is only available if the option" LANGUAGE SELECTION" (point 6.2.) Is set to"DISABLE".

Possible adjustments:

- Factory adjusted: 5 sec

- Minimal adjustment value: 0 sec
- Maximal adjustment value: 20 sec

6.4. SHOW TIMERS

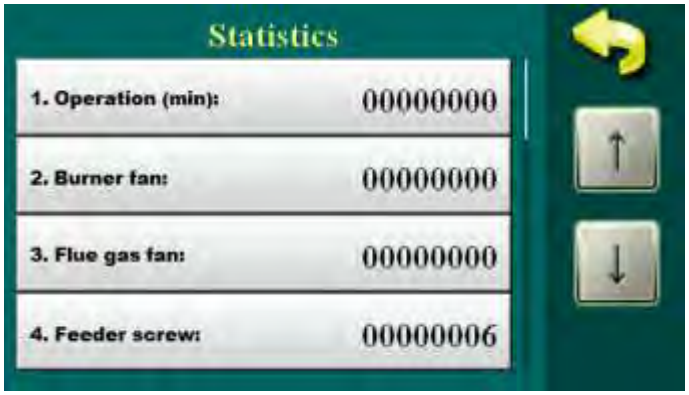
Option for tuning on / off for working hours counter on main screen.
Possible selection:
- Factory selected: ON
- Possible selection: ON, OFF;

6.5. DATE & TIME

This option is used to set the date and time. This option is used to set the date and time. It is necessary for starting times, and the recording of errors / warnings (for the occurrence of errors / warnings, remembers the date and time of occurrence). After setting the date and time it is necessary to press the "CONFIRM" for saving date and time.

7. INFO

7.1 STATISTIC

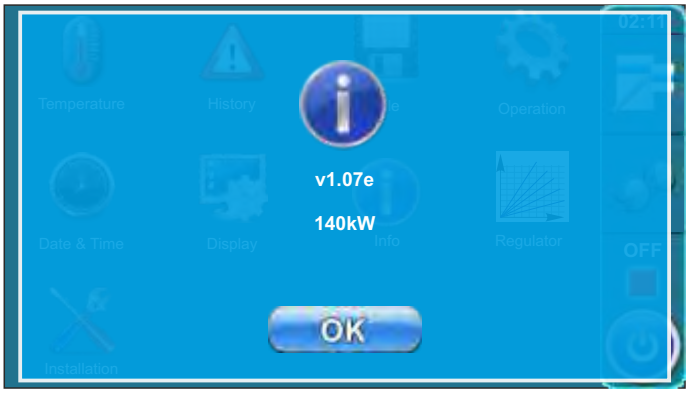


The regulation follows the startup number of the boiler and the work time of certain parts of the boiler.

Boiler devices in statistics:

- operation (min)
- burner fan (min)
- flue gas fan (min)
- feeder screw (min)
- heater (min)
- heater count
- pump (min)
- pump count
- flue gas box screw
- ash removing (min)
- time to cleaning (min)
- Compressor (min)
- time to cleaning (min)
- compressor service (min)

7.2. SOFTWARE VERSION



Software version displaying.

7.3. LOCKING

Status of screen locking.
A - if is screen locked on display will be displayed locking informatio - date, time and user which is lock screen.

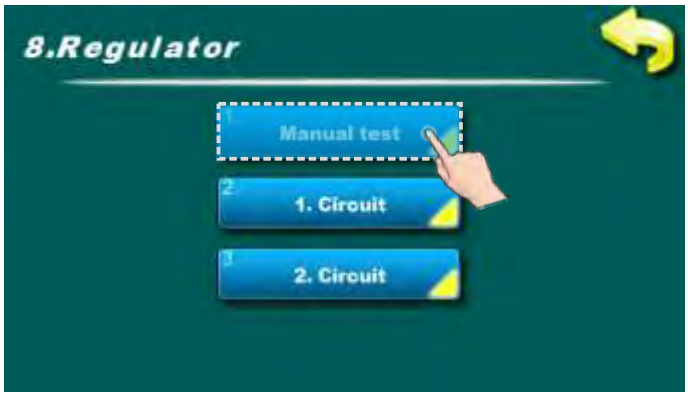
7.4. ENCLOSURE TEMPERATURE (junction box temperature)

Displaying of junction box temperature.

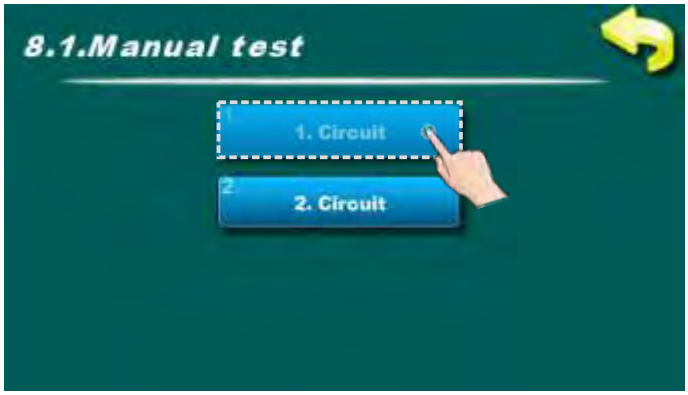
8. REGULATOR

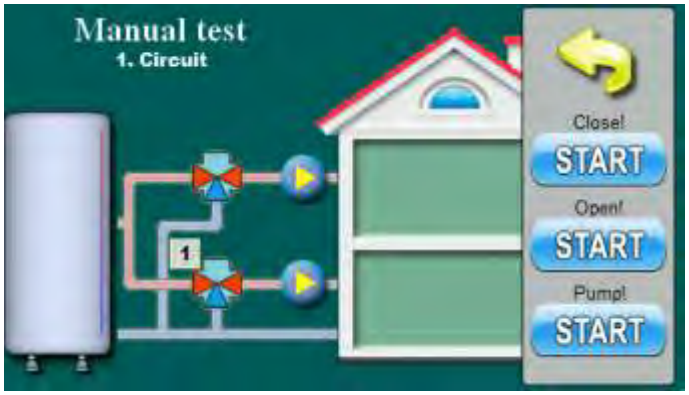
Menu „Regulator" is showed only if module for two heating circuits CM2K-B is installed and configurated.

8.1. MANUAL TEST



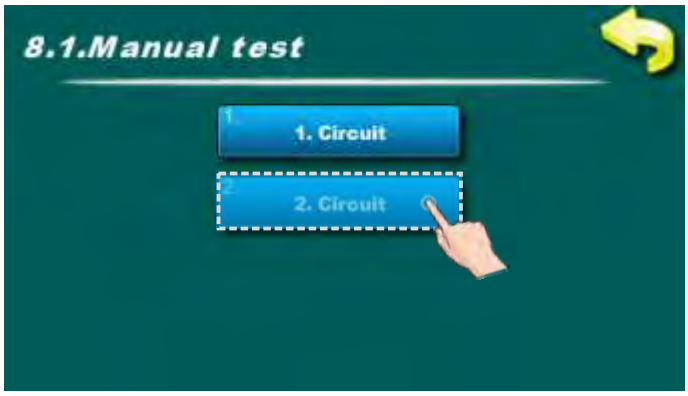
8.1.1. 1. CIRCUIT

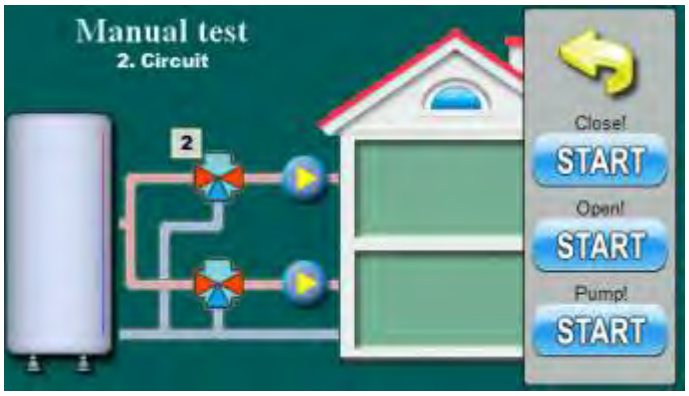




Option for testing elements of 1st heating circuit (mixing valve (START-open), mixing valve (START-close) and pump (START)).

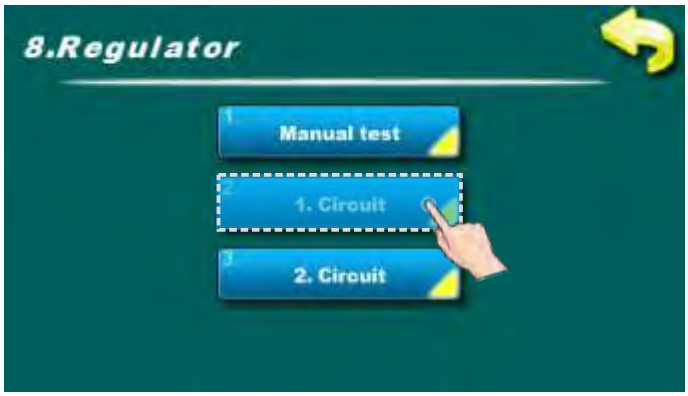
8.1.2. 2. CIRCUIT

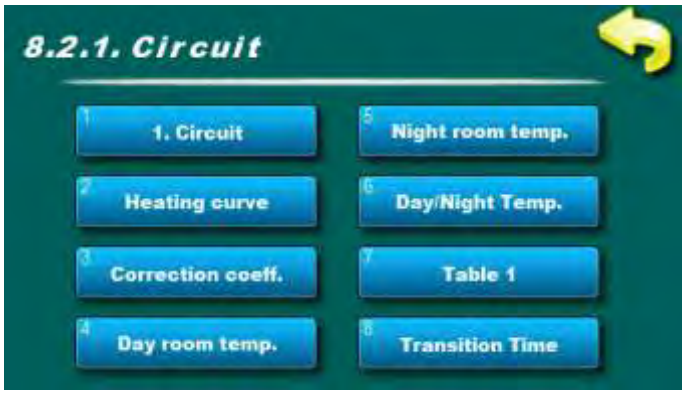




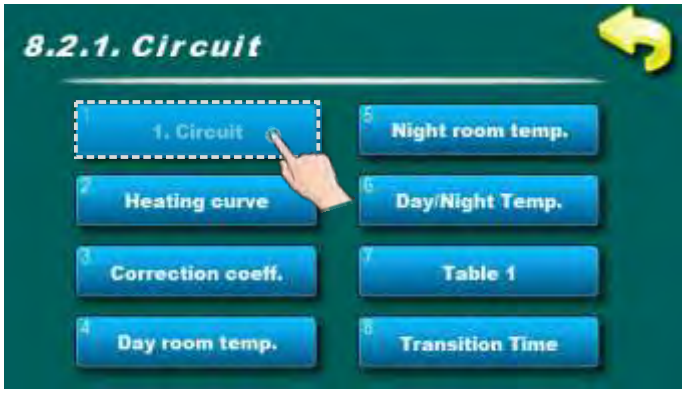
Option for testing elements of 1st heating circuit (mixing valve (START-open), mixing valve (START-close) and pump (START)).

8.2. 1. CIRCUIT



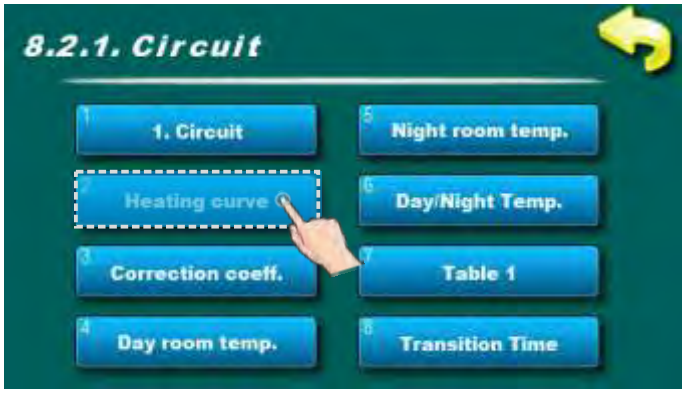


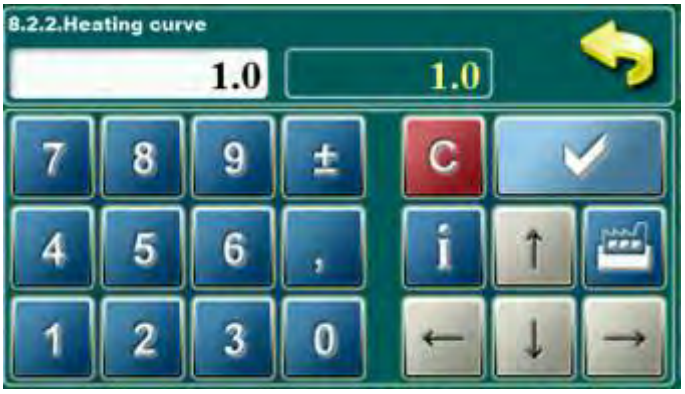
8.2.2.1. CIRCUIT



Option for turning on / off first heating circuit.
Possible selection:
- Factory selected: ON
- Possible selection: ON, OFF;

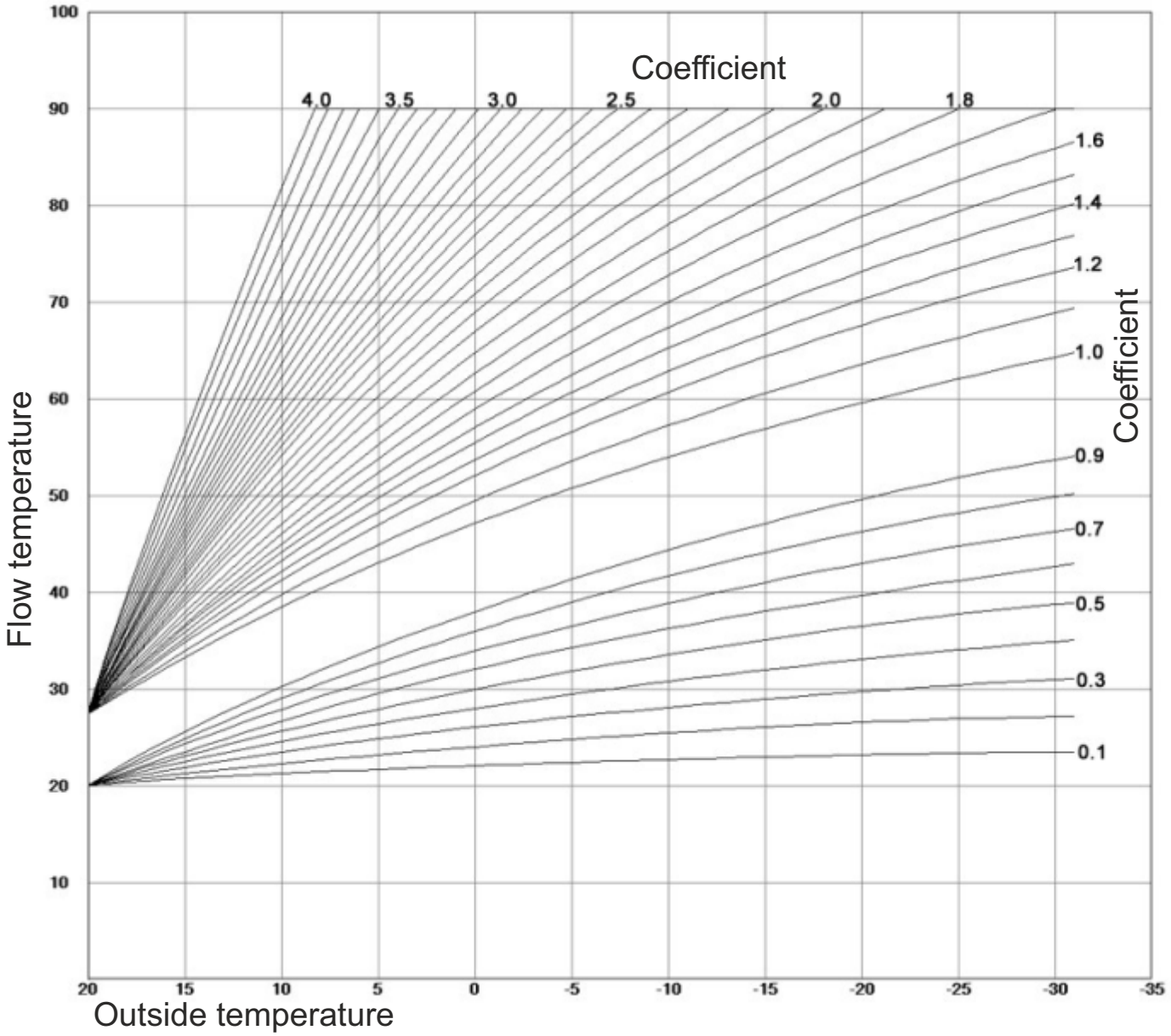
8.2.2. HEATING CURVE



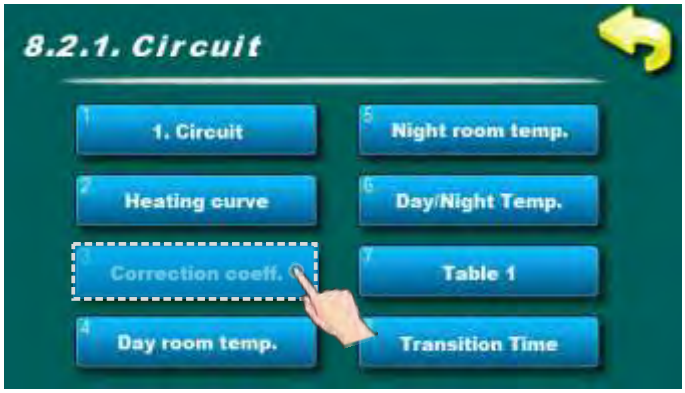


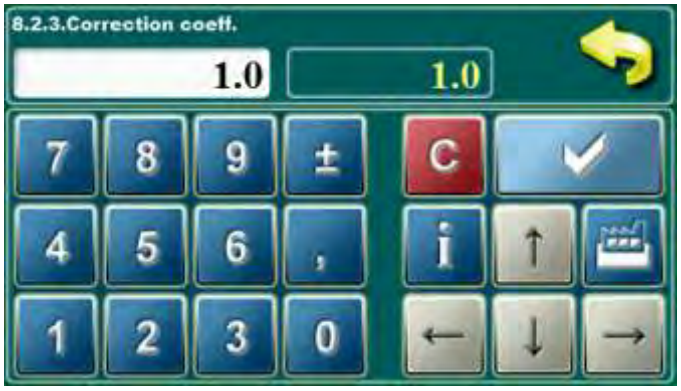
This parameter determine the coefficient of the heating curve. The regulation calculate required flow temperature according to the heating curve and outside temperature to achieve the desired room temperature.

Possible adjustment: **- Factory adjusted: 1**
- Minimal adjustment value: 0,1
- Maximal adjustment value: 4,0



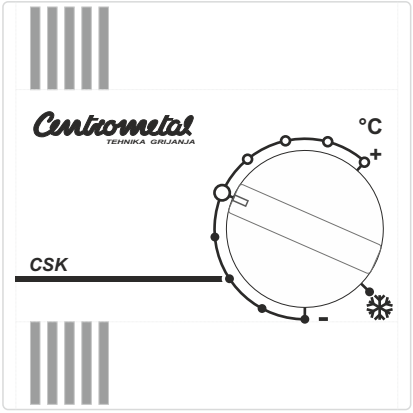
8.2.3. CORRECTION COEFF.





This parameter determines the influence of the room corrector. When this coefficient is larger, room corrector will more affect to the calculated required flow temperature in the heating circuit.

Possible adjustment: - Factory adjusted: 1
- Minimal adjustment value: 0,1
- Maximal adjustment value: 5,0

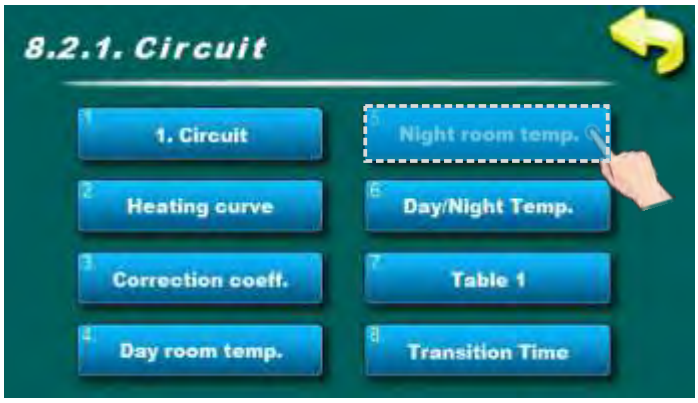


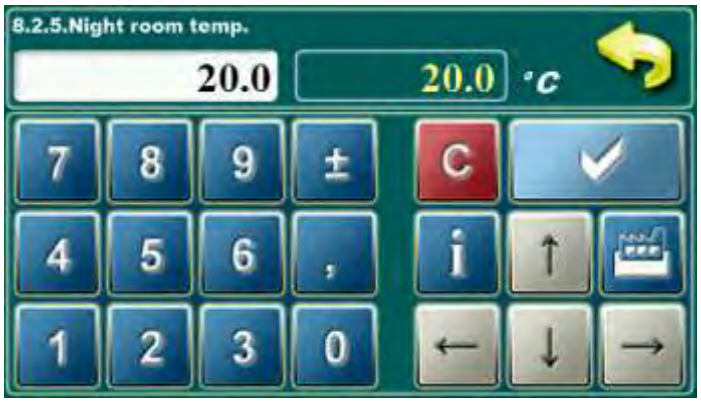
8.2.4. DAY ROOM TEMPERATURE

This parameter determines the value of day room temperature.

Possible adjustment: - Factory adjusted: 20,0°C
- Minimal adjustment value: 5°C
- Maximal adjustment value: 30,0°C

8.2.5. VALUE OF NIGHT ROOM TEMPERATURE



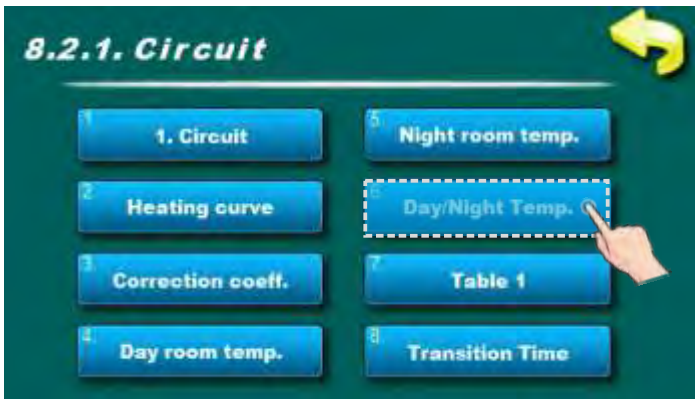


This parameter determines the value of night room temperature.

Possible adjustment: - Factory adjusted: 20,0°C

- Minimal adjustment value: 5°C
- Maximal adjustment value: 30,0°C

8.2.6. DAY/NIGHT TEMPERATURE CHOICE



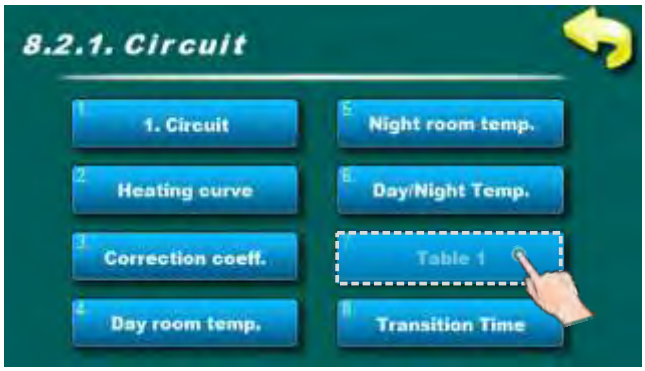
This option enables you to choose type of desired temperature (day, night or table.) In next page you can see how to fill a table.

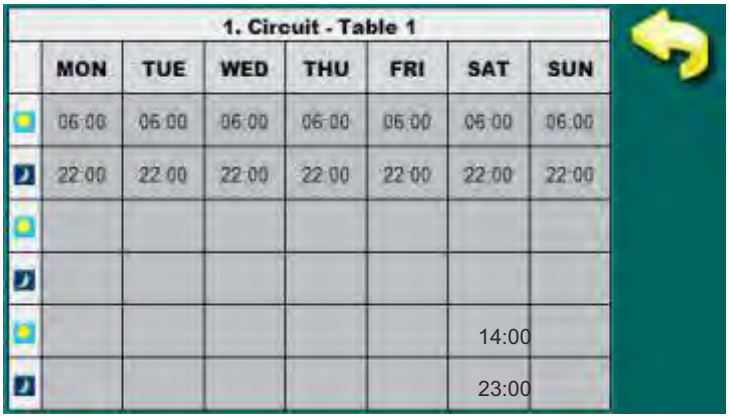
Possible selection:

- Factory selected: Day temperature

- Possible selection: Day temperature, Night temperature, Table

8.2.7. DAY/NIGHT TEMPERATURE CHOICE

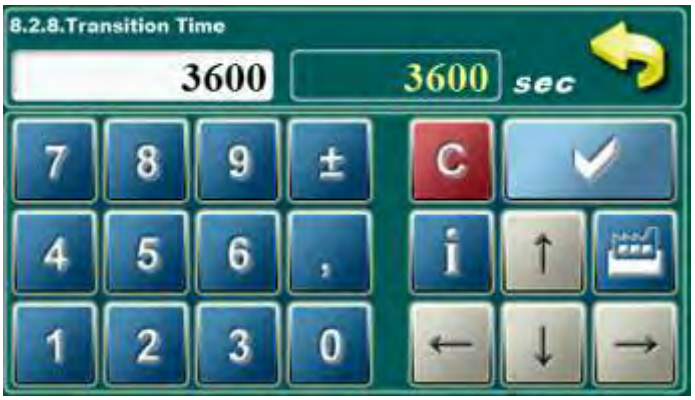




Day temperature Night temperature

Each cell marks the beginning of some type (day/night) of selected room temperature.
According to this table every day from monday at 06:00 am is activated day room temperature, until 22:00 pm when is activated night room temperature until tuesday, when at 06:00 am is again activated day room temperature.
On saturday, the day temperature is activated at 05:00 am and works until 10:00 am when is switched to night temperature. At 14:00 pm is again activated day room temperature up to 23:00 pm when is again switched to night temperature.
When passed one cycle (week) circle starts again from the beginning. The values of a day/night room temperature can be selected as is described in previous pages.

8.2.8. TRANSITION TIME

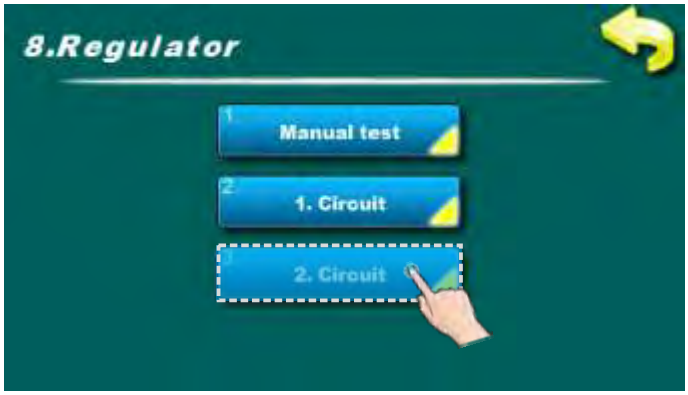


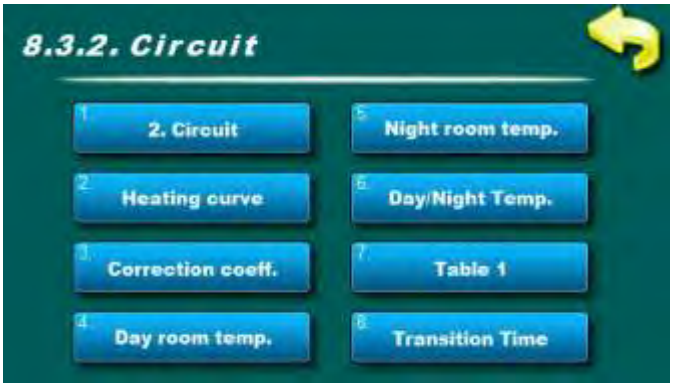
This parameter is used only when configuration doesn't contain room corrector, because regulation doesn't have information of room temperature.

This parameter is time which is presumed that the system will achieve a given room temperature in a transition from day to night mode, and vice versa. So, this is time in which will "flow temperature" be optimally adjusted to achieve quick transition.

Possible adjustment: - Factory adjusted: 3600sec
- Minimal adjustment value: 0 sec
- Maximal adjustment value: 18000 sec

8.3. 2. CIRCUIT





Setting parameters for all activated heating circuits is adjusting in same way like in 1st circuit.

9. CORRECTION

If is appear a lot of unburned fuel in ash box than is possible to use this option which is used for better (completed) fuel burning. With increase value of parameter fuel will be better burn.
Note: use only if is appear a lot of unburned fuel in ash box.

Possible adjustment:
- Factory adjustment value: 0
- Minimal adjustment value: 0
- Maximal adjustment value: 3

10. LOCKING

10.1. LOCK

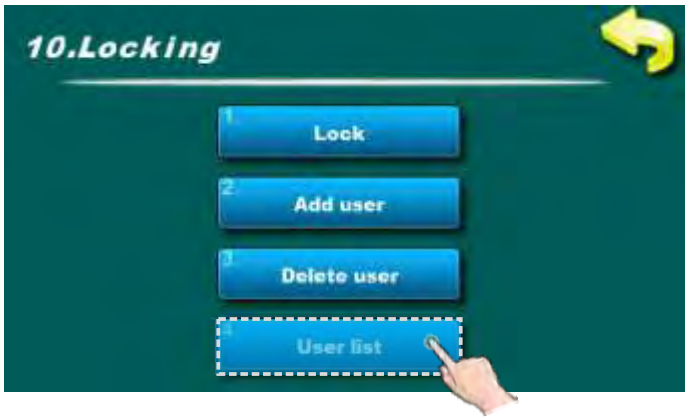
Option for locking display. Display can be locked only if exist profile for locking (10.2. Add user; 10.4. User list). When is display locked is possible to move through all menus but parameters can’t be changed.

10.2. ADD USER

Option for adding new locking user. It's necessary to enter name of user through numerical part (1) and confirm it by pressing confirm button (2). Enter pin and confirm it. After that is necessary to re-entry pin and confirm it.

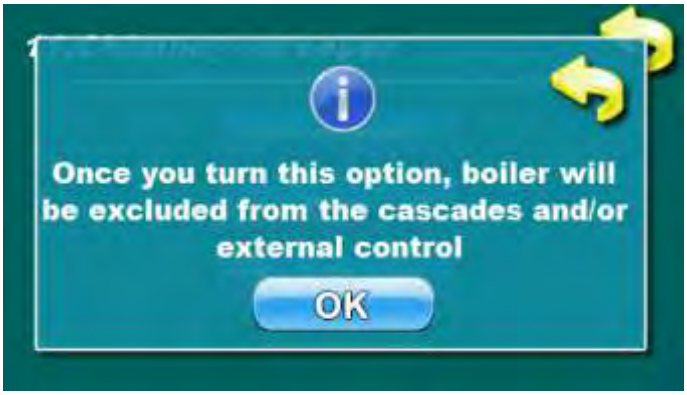
10.3. DELETE USER

10.4. USER LIST



11. CHIMNEY SWEEPER

11.1. CHIMNEY SWEEPER



This option allows the flue gas measurement at different boiler powers. When this option is turned on, counter will appear on display. Time will start counting when the boiler reaches selected power (Dx). Text of the counter is red. When the boiler reach the selected power (Dx) and is on selected power for set time and factory set temperature of the boiler is achieved counter turns green and flue gases can be measured.

Possible selection:

- Factory selected: OFF

- Possible selection: OFF, ON;

11.2. POWER

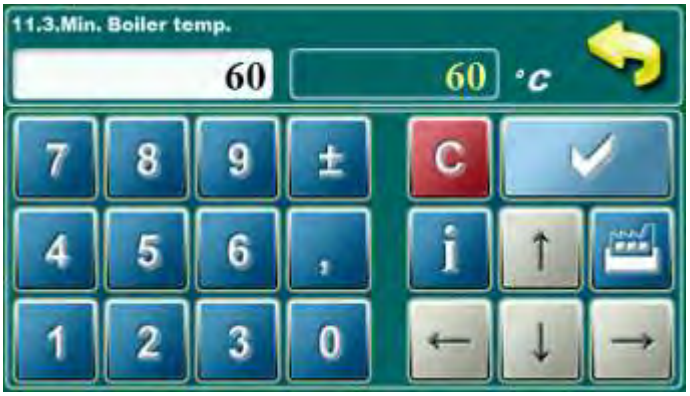
This option allows the boiler to work in different powers in order to measure the flue gases in the boiler modulation phases.

Possible selection:

- Factory selected: D5(max)

- Possible selection: D5(max), D2(min);

11.3. MINIMAL BOILER TEMPERATURE



Adjustment of minimal boiler temperature when is chimney sweeper mod activated.

Possible adjustment:

- Factory adjusted: 60°C

- Minimal adjustment value: 60˚C
- Maximal adjustment value: 60˚C

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