Daxom / Naviels

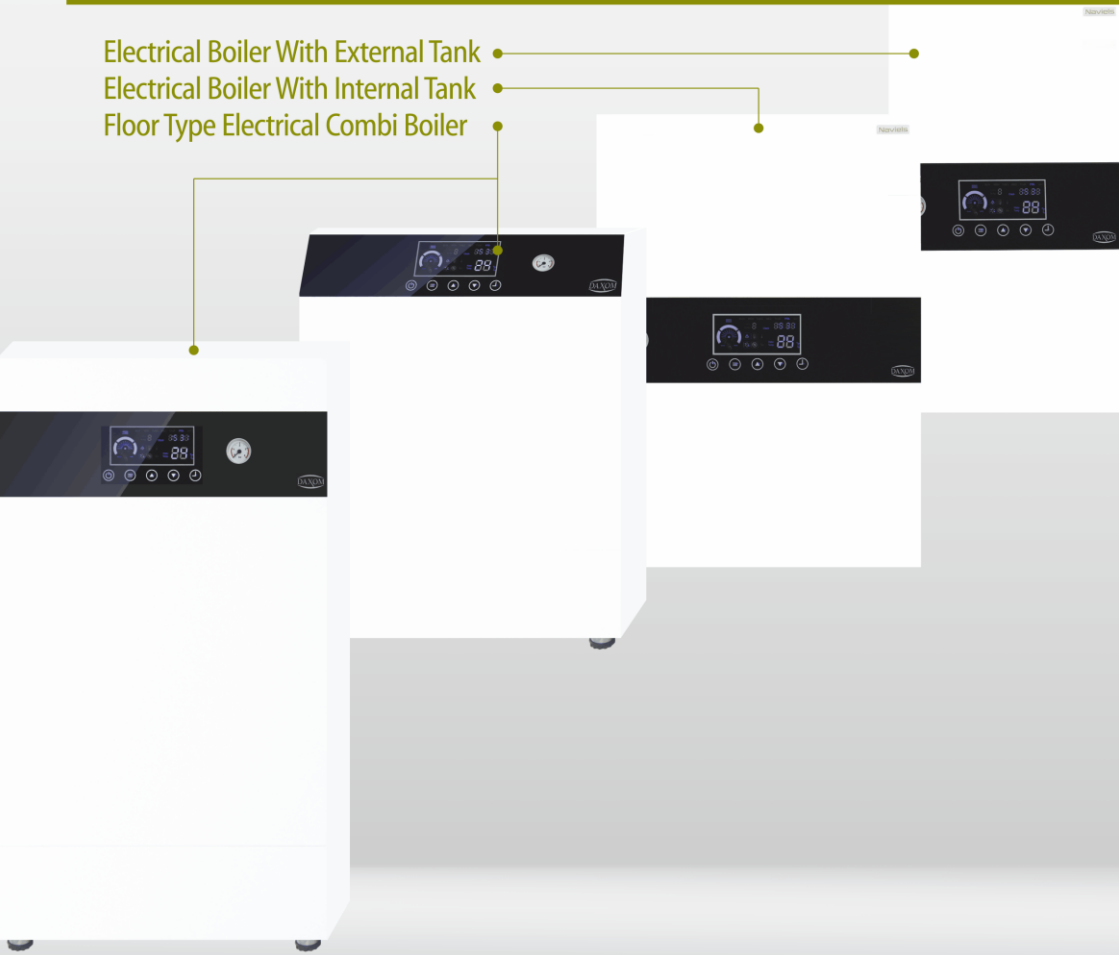
Elecrical Combi Boilers

Installation And Operating Manual

Comfort and confidence suits to your life

CE

Electrical Boiler With External Tank
Electrical Boiler With Internal Tank
Floor Type Electrical Combi Boiler



To Daxom User

In order to perform device's function properly and for your safety follow the instructions mentioned in the user manual of the device during the mounting and the usage of the device. In case of an unauthorized mounting and maintenance, the device will be void from warranty cover. In addition to that, our company will not be responsible from failure or an accident that may occur in the device. Please keep this user manual in good conditions for future reference.

1. SAFETY WARNINGS

- Device installation must be made by authorized personnel according to instructions that are determined inside this manual.
- Start-up of device must be made by Authorized Service. Do not try to operate the device by yourself.
- Connection of water and heating installment of the device must be made as safety.
- Device can operate with the voltage determined inside this manual according to its model. Suitable system voltage must be provided.
- When it is supplied electric distribution from any electric resource (like generator) except city electrical distribution network, must be sure that necessary conditions are provided for safety operation of the device.
- Energy must be provided to device with suitable cable section determined inside this manual. Residual Current Device and grounding must definitely place.
- Installation of the device must not be made to humidity places and places that can be wet from external factors.
- Do not keep inflammable, explosive or easy flammable materials or objects near or close the device.
- This "INSTALLATION AND USER MANNUAL" is supplemental part of the product. Please keep it for apply when it is necessary. Contact with authorized service agency for the new copy in case of lost or damage.
- This device must only be used as suitable as for its purpose. Producer reject all kinds of liabilities that places or not places in the agreement for damage property or injury indented to person and animals which cause because of consumer wrong using, installation, setting and maintenance.

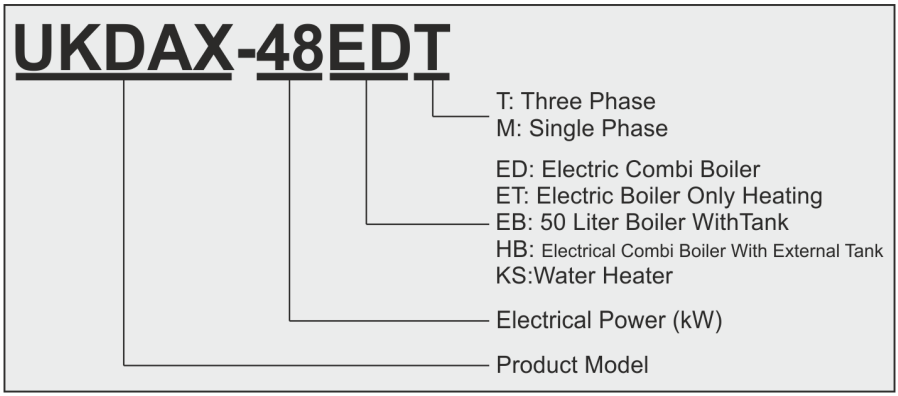
- After you unpack the device, be sure that content is in good position and complete otherwise contact with the sales agency that you have purchased the device.
- Safety valve outlet must be connected to suitable discharge system. All responsibilities are belong to user in case of any damage that occurs because of any intervention to safety valve.
- Remove all packing wastes carefully without giving damage to human and environment health.
- In case of water leakage happens, water feed must be close and authorized service agency must be immediately informed.
- Hydraulic system operation pressure must be between 1 and 2 bars therefore it must not exceed 3 bars. In case of need reduce water pressure of heater circuit from discharge valve of installment.
- If the device will not have used for a long time, perform following points are suggested.
  - Bring switch of the device OFF position.
  - Close taps both heating and hot water network.
  - Discharge heating installation and boiler cycle for preventing freezing.
- Device should not be used by children, people with insufficient physical, sensory or mental capabilities or people who are lack experience and knowledge about the usage of the device.
- In case of having smoked or burning smell originating from device, make switch of the device"OFF" position and contact with authorized service agency.
- Do not touch the device with wet hand or when outside of device is wet.
- Do not use substances such as detergent and thinner for the cleaning of the device. Clean outside of the device with damp –dry fabric after make switch of device OFF.
- Absolutely control temperature of hot water before using.
- The lifetime of the device which is determined by Ministry of Custom and trade is 10 years

2. SUGGESTIONS FOR ECONOMICALLY USED

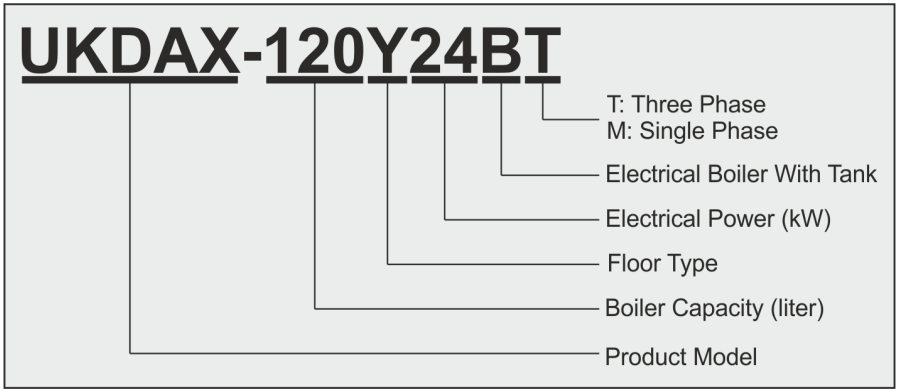
- Adjust ambient temperature according to your need. Increasing 1 degree of ambient temperature increases your energy consumption about %6.
- Having homogeneous heating at parts according to intended use that is placed at the heating place, increases saving.
- By using thermostatic valve for radiators, having adjustable required temperature value for every section increases saving but using room thermosatd and thermoatatic valve at the same time can cause problem
- For sensing thermostatic valves ambient temperature correctly, curtains or objects that affect air flow must be positioned properly.
- For sensing room thermostad ambient temperature correctly that it placed, it should be positioned far and proper height from window, object or heat source.
- Ventilation of heated environment very long time increase the energy lost. Short time ventilation must be made. If it is needed to make long time ventilation, closing valve of ambient radiator or turn the device down provide energy saving.
- At night time or when you are not at home for a short time, if device temperature is decreased, can be saved while providing keep the temperature at sufficient level.
- Adjustment of device operation temperature setting according to exterior temperature provides saving.
- Setting temperature of tap water according to your need without making lukewarm providesn saving.
- Use water as consciously. Consciously using water increase saving.

3. DEVICE CONFIGURATION

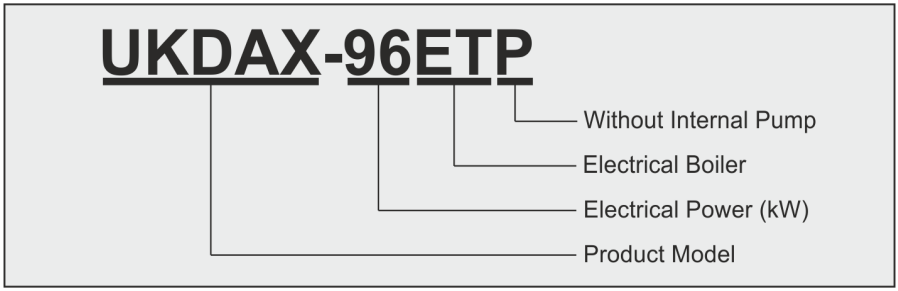
Wall Type products code explanations are as in the following.



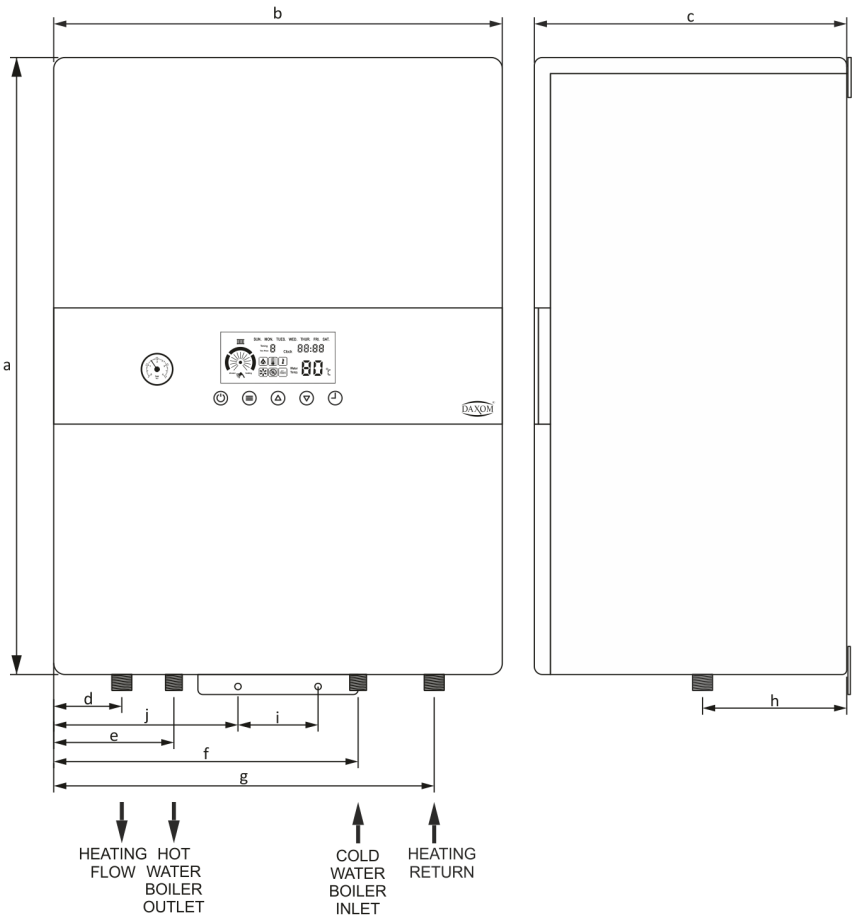
Ground type boiler product codes explanations are as in the following



Products codes explanations of boiler without pump are as in the following.

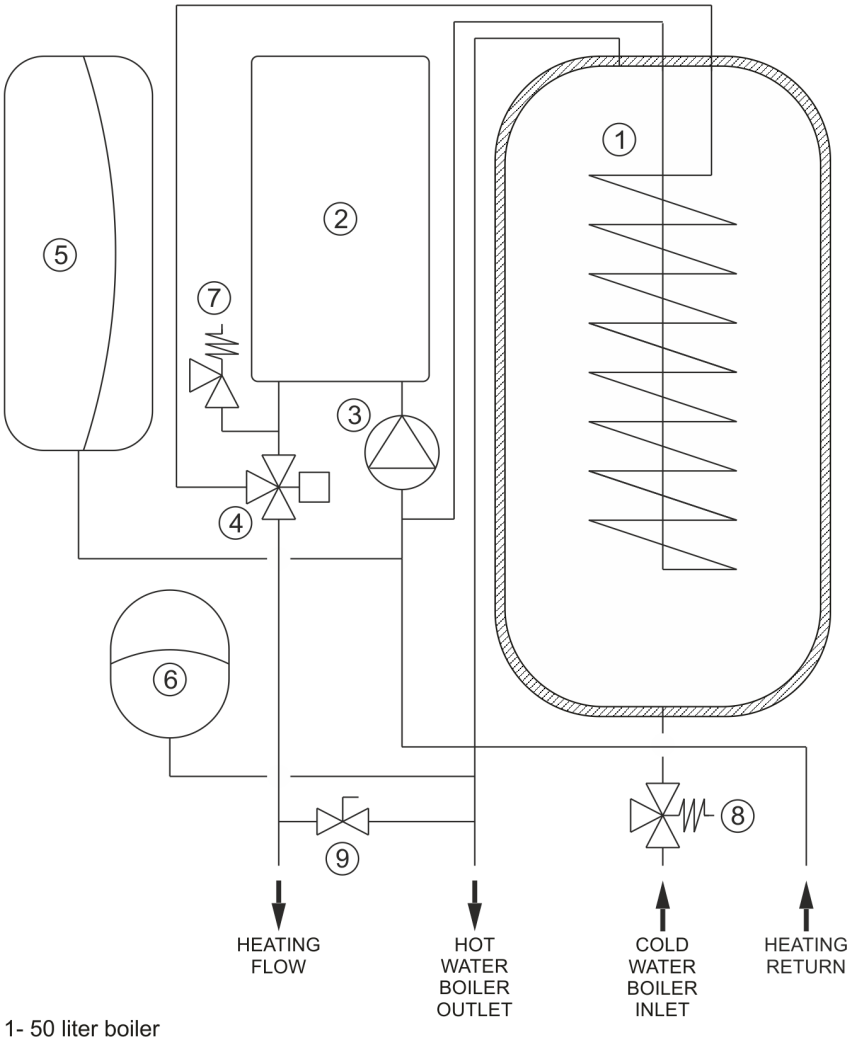


3.1. Wall Type Boiler With Tank



a	b	c	d	e	f	g	h	i	j
770	560	390	85	150	380	475	180	100	230

Unit of measurements are as "mm"

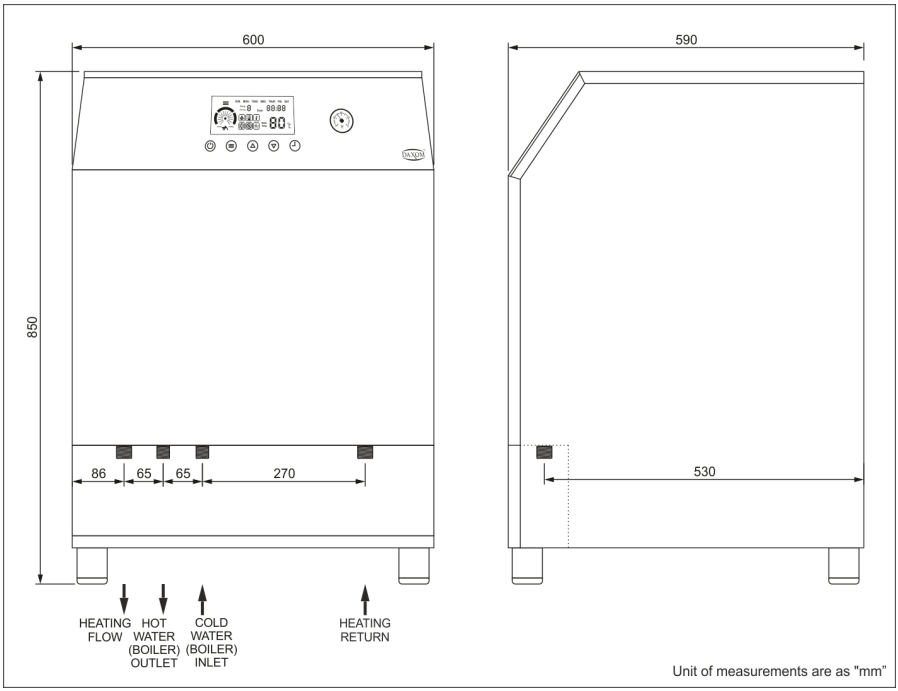


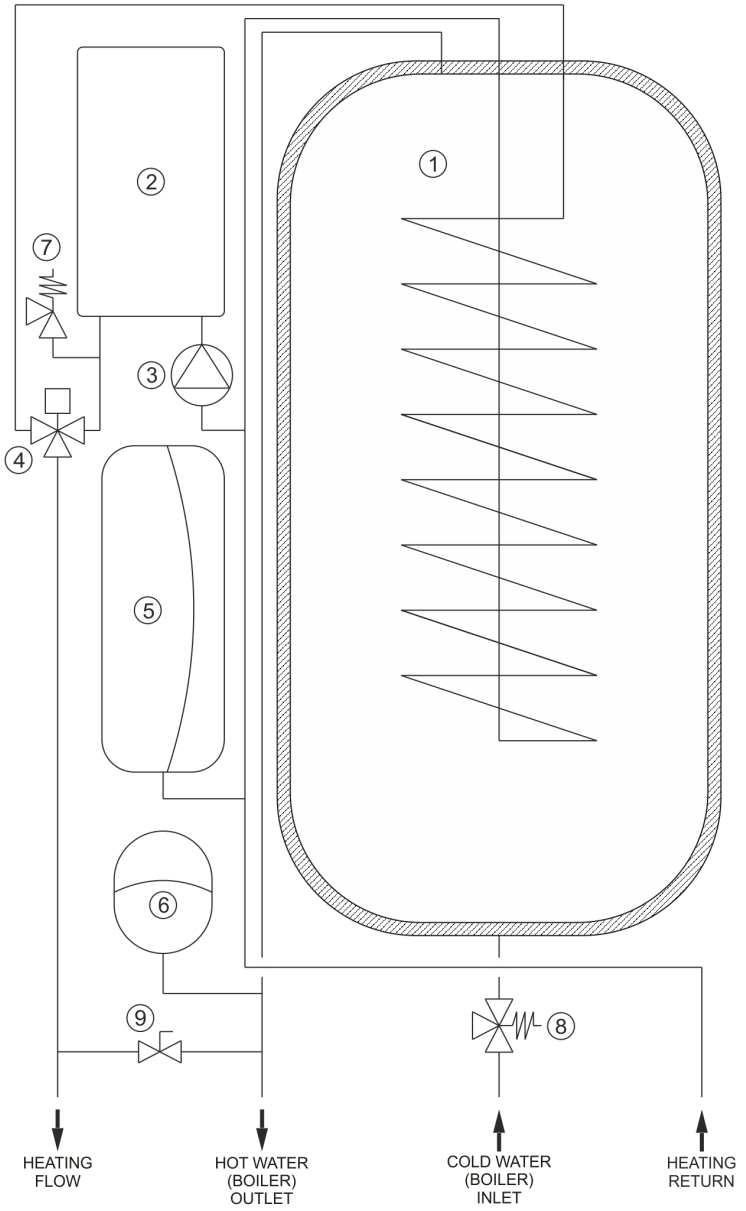
1- 50 liter boiler
2- Heating main unit
3- Cycle control circulation pump
4- Three way valves
5- Heating cycle expansion tank
6- Tap water (boiler) cycle expansion tank
7- Heating cyce safety valve
8- Tap water (boiler) cycle safety valve
9- Heating cycle filling valve

3.2. Floor Type Boiler With Tank



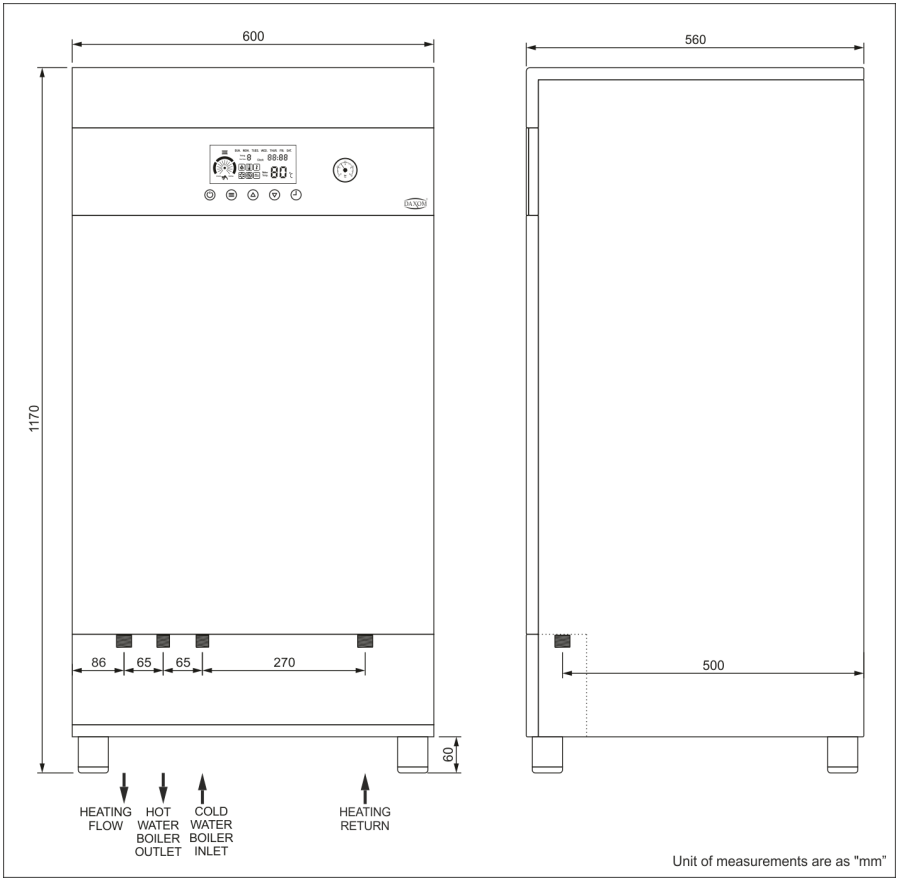
3.2.1. Floor Type 80 Liter Boiler With Tank

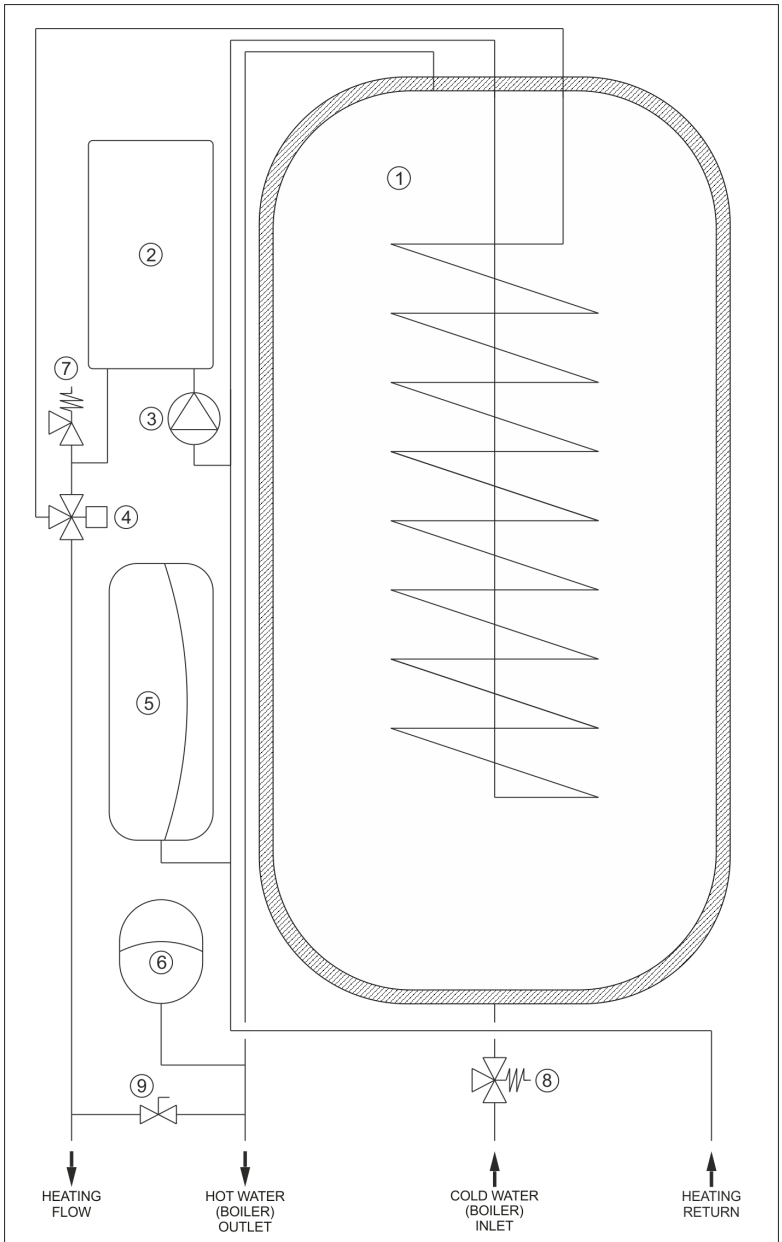




1- 80 liter boiler
2- Heating main unit
3- Cycle control circulation pump
4- Three way valves
5- Heating cycle expansion tank
6- Tap water (boiler) cycle expansion tank
7- Heating cyce safety valve
8- Tap water (boiler) cycle safety valve
9- Heating cycle filling valve

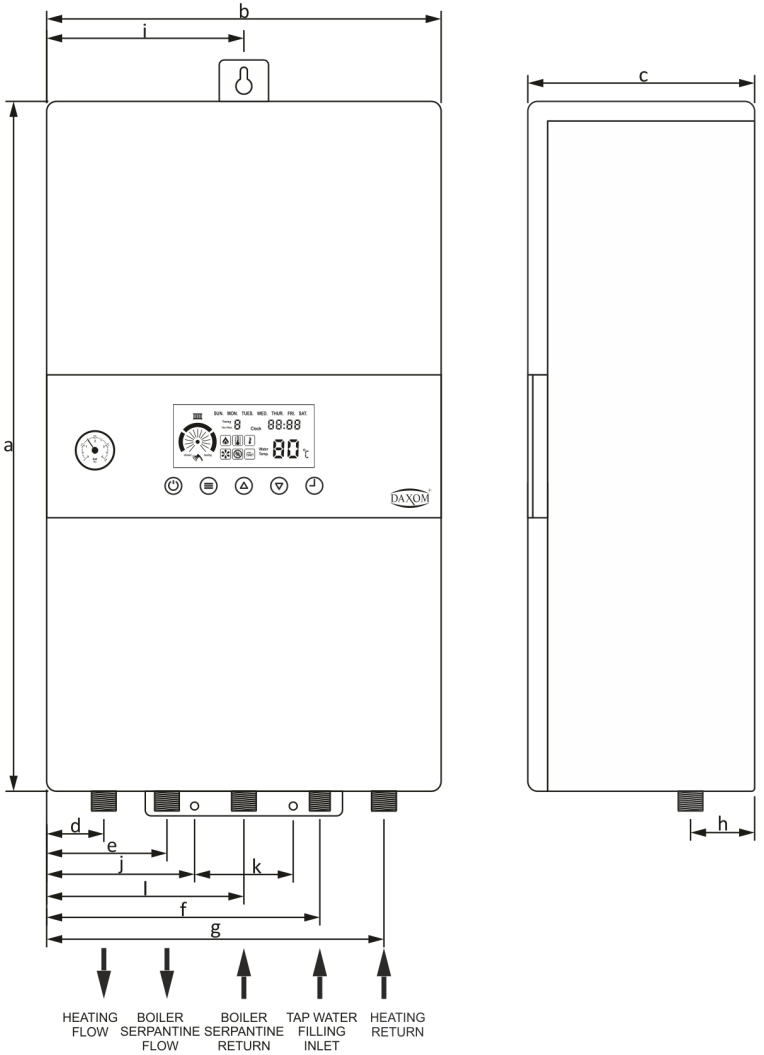
3.2.2. Floor Type 120 Liter Boiler With Tank





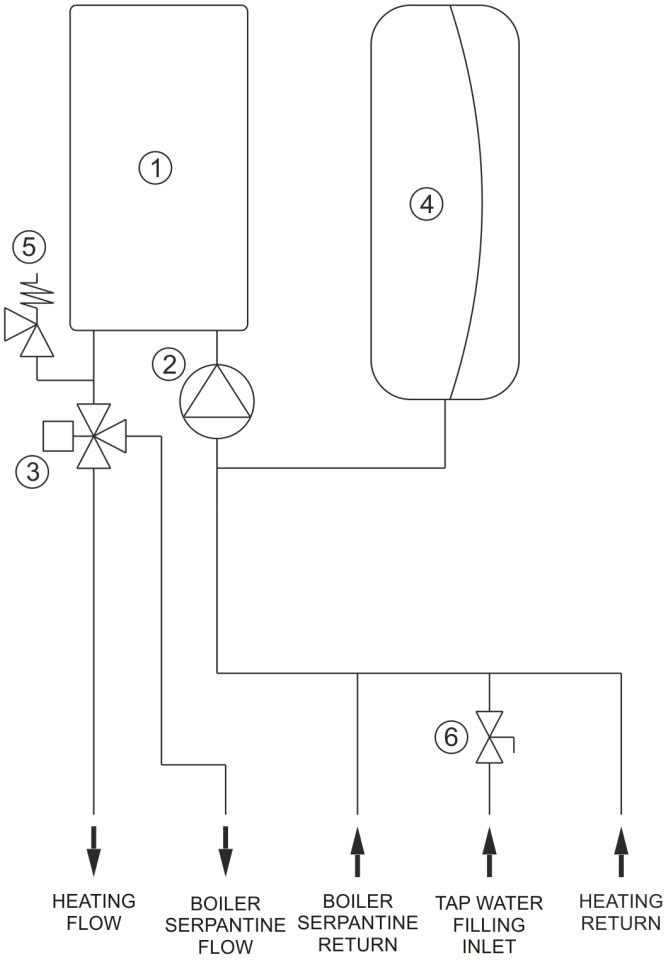
1- 120 liter boiler
2- Heating main unit
3- Cycle control circulation pump
4- Three way valves
5- Heating cycle expansion tank
6- Tap water (boiler) cycle expansion tank
7- Heating cyce safety valve
8- Tap water (boiler) cycle safety valve
9- Heating cycle filling valve

3.3. Wall Type Electric Boiler With External Tank



Capacity	a	b	c	d	e	f	g	h	i	j	k	l
6-24 kW	700	400	220	58	122	277	342	65	200	123	100	200
30-48 kW	700	450	320	83	147	302	367	75	225	148	100	225

Unit of measurements are as "mm”



1- Heating main unit
2- Cycle control circulation pump
3- Three way valves
4- Expansion tank
5- Tap water (boiler) cycle safety valve
6- Filling valve



4. TECHNICAL INFORMATIONS

4.1. Wall Type Boiler With Tank

Technical Specifications				
Model	Power (kW)	Boiler Capacity (l)	Weight Without Water (Kg)	Dimensions H*W*D (mm)
3~400 V 50 Hz Wall Type Electric Boiler With Tank				
UKDAX-10EBT	10	50	50	770*560*390
UKDAX-12EBT	12	50	50	770*560*390
UKDAX-16EBT	16	50	52	770*560*390
UKDAX-18EBT	18	50	52	770*560*390
UKDAX-20EBT	20	50	52	770*560*390
UKDAX-24EBT	24	50	52	770*560*390
1~220 V 50 Hz Wall Type Electric Boiler With Tank				
UKDAX-6EDM	6	50	50	770*560*390
UKDAX-10EDM	10	50	50	770*560*390
UKDAX-12EDM	12	50	52	770*560*390
UKDAX-16EDM	16	50	52	770*560*390
UKDAX-18EDM	18	50	52	770*560*390

Technical Specifications		Heating	DHW
Min. Operation Pressure	bar	1	0,5
Max. Operation Pressure	bar	3	8
Expansion Tank	l	7	2
Min. Setting Temperature	°C	10	35
Max. Setting Temperature	°C	80	65
Connections	inch	¾	½

4.2. Floor Type Boiler With Tank

Technical Specifications				
Model	Power (kW)	Boiler Capacity (l)	Weight Without Water (Kg)	Dimensions H*W*D (mm)
3~400 V 50 Hz Electric Boiler With Tank				
UKDAX-80Y10BT	10	80	55	836*600*590
UKDAX-80Y12BT	12	80	55	836*600*590
UKDAX-80Y16BT	16	80	55	836*600*590
UKDAX-80Y18BT	18	80	55	836*600*590
UKDAX-80Y20BT	20	80	55	836*600*590
UKDAX-80Y24BT	24	80	55	836*600*590
UKDAX-120Y10BT	10	120	65	1152*600*590
UKDAX-120Y12BT	12	120	65	1152*600*590
UKDAX-120Y16BT	16	120	65	1152*600*590
UKDAX-120Y18BT	18	120	65	1152*600*590
UKDAX-120Y20BT	20	120	65	1152*600*590
UKDAX-120Y24BT	24	120	65	1152*600*590
1~220 V 50 Hz Electric Boiler With Tank				
UKDAX-80Y10BM	10	80	55	836*600*590
UKDAX-80Y12BM	12	80	55	836*600*590
UKDAX-80Y16BM	16	80	55	836*600*590
UKDAX-80Y18BM	18	80	55	836*600*590
UKDAX-120Y10BM	10	120	65	1152*600*590
UKDAX-120Y12BM	12	120	65	1152*600*590
UKDAX-120Y16BM	16	120	65	1152*600*590
UKDAX-120Y18BM	18	120	65	1152*600*590

Technical Specifications		Heating	DHW
Min. Operation Pressure	bar	1	0,5
Max. Operation Pressure	bar	3	8
Expansion Tank	l	7	2
Min. Setting Temperature	°C	10	35
Max. Setting Temperature	°C	80	65
Connections	inch	¾	½

4.3. Wall Type Electric Boiler With External Tank

Technical Specifications				
Model	Power (kW)	Expansion Tank (l)	Weight Without Water (Kg)	Dimensions H*W*D (mm)
3~400 V 50 Hz Electric Boiler With Tank				
UKDAX-10HBT	10	7	23,5	700*400*220
UKDAX-12HBT	12	7	23,5	700*400*220
UKDAX-16HBT	16	7	25	700*400*220
UKDAX-18HBT	18	7	25	700*400*220
UKDAX-20HBT	20	7	25	700*400*220
UKDAX-24HBT	24	7	25	700*400*220
UKDAX-30HBT	30	12	32,2	700*450*320
UKDAX-36HBT	36	12	35,4	700*450*320
UKDAX-40HBT	40	12	35,4	700*450*320
UKDAX-48HBT	48	12	35,4	700*450*320
1~220 V 50 Hz Electric Boiler With Tank				
UKDAX-6HBM	6	7	23,5	700*400*220
UKDAX-10HBM	10	7	23,5	700*400*220
UKDAX-12HBM	12	7	23,5	700*400*220
UKDAX-16HBM	16	7	25	700*400*220
UKDAX-18HBM	18	7	25	700*400*220

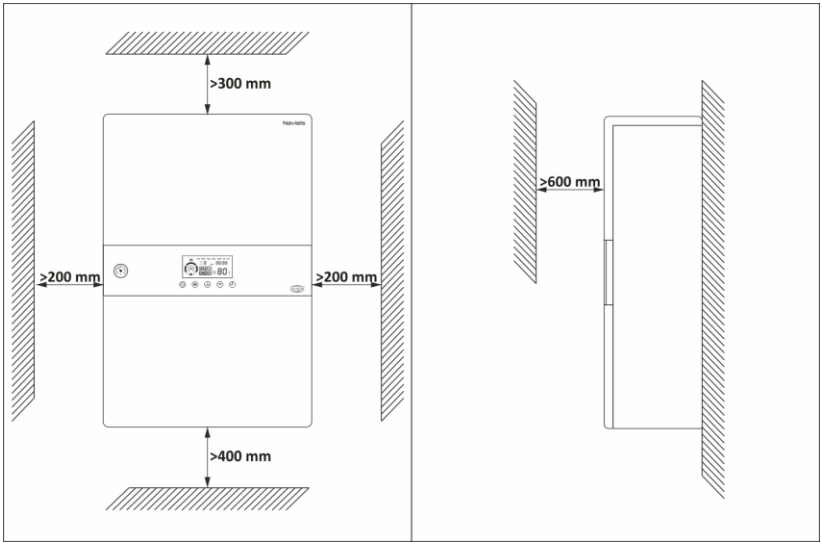
Technical Specifications		
Min. Operation Pressure	bar	1
Max. Operation Pressure	bar	3
Radiator Operation Setting Temperature	°C	10-80
Boiler Operation Setting Temperature	°C	35-65
Heating Connections	İnch	¾
DHW Connections	İnch	¾
Water Filling Connection	İnch	½

5. DEVICE INSTALLATION

⚠ Device installation must be done by authorised personnel.

5.1. Installation Conditions and Safety Warnings

Obey minimum distance that is anticipated for installation in order to reach the device for making maintenance and repair.



For Correct Device Installation;

- Installation must not be made on the cooker or similar cooking devices.
- Do not leave combustion products inside device installed room.
- Heating sensitive walls (for example wooden walls) must be protected with steady insulation.
- Before the installation, all system pipes must be washed carefully for removing any residual things that can give damage to operation of the device.
- When heating system increases over 3 bar, water disposal starts from safety valve.
- When boiler pressure increases over 8 bar, drainage starts from safety valve. (For Ukdax-xxEBM and Ukdax-xxEBT)Boiler max operating pressure is 6 bar. If you suspect that system pressure is over 6 bar, install pressure reducer to inlet of device or flat entrence.

- Device installation place must be far way from blockers, obstruction parts and bulges during repairing and maintenance. There must be sufficient space around the device for maintenance and repair.
- Electric connection of the device must be made with suitable cable, fuse and residual current device and grounding absolutely must be made.
- Installation wall of the device must be as durable as carrying the weight of the device.

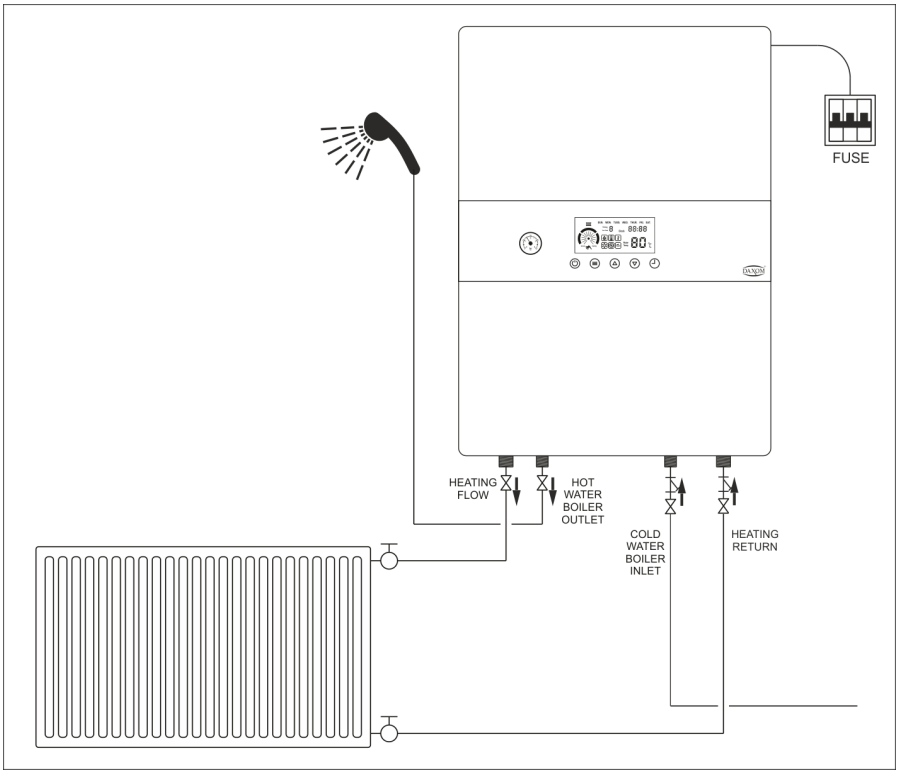
5.2. Wall Type Device Installation

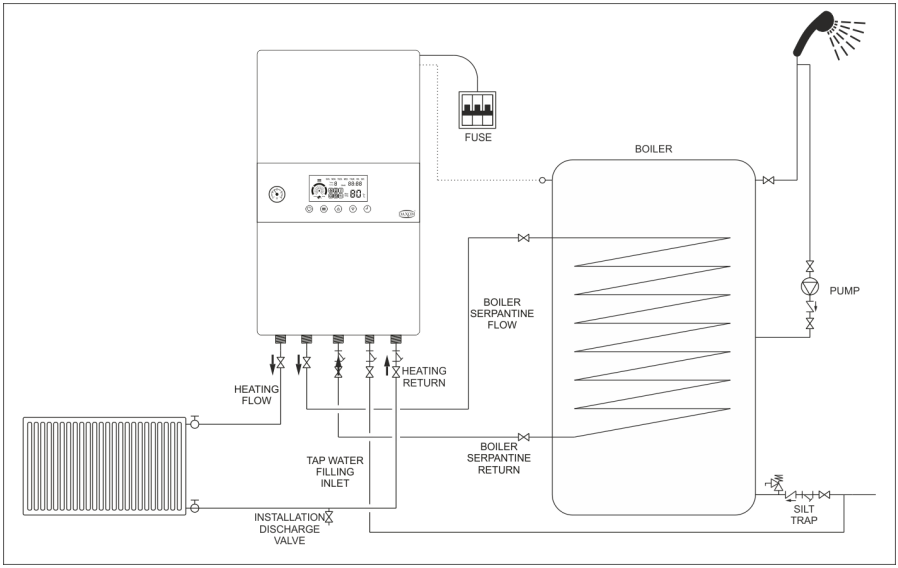
⚠ Installation wall of the device must be as durable as carrying the weight of the device.

For device installation in the place chosen in accordance with the conditions stated above;

- Mark the place of device installation holes on the installed surface
- Drill up and bottom installation holes with 8 mm drilling bit.
- Place M8 open hook steel dowelto to upper installation hole and tighten the nut until fixing plug tighten. The open side of hook must be up.
- Install the 8 mm fixing plug to bottom part installation holes.
- After control durability of hook, hold the device by two people opposite to each other, place it on the hanger upper plate fixed to the wall. Do not leave the device without being sure that it is fully fixed.
- Fix tightly from bottom installation holes with 5*45mm Chipboard Screws.
- After complete the wall installation of device, control the installation durability of device.

⚠ For Ukdax-xxHBT ve Ukdax-xxHBM models, 50 K NTC boiler sensor must be installed.

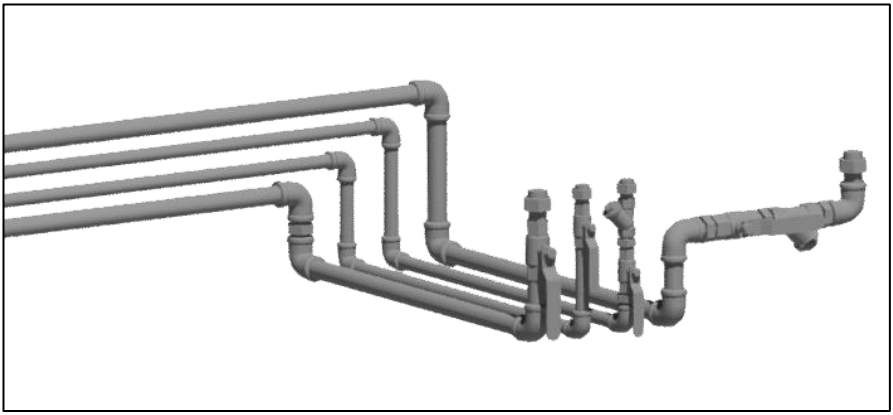

FUSE
HEATING FLOW
HOT WATER BOILER OUTLET
COLD WATER BOILER INLET
HEATING RETURN

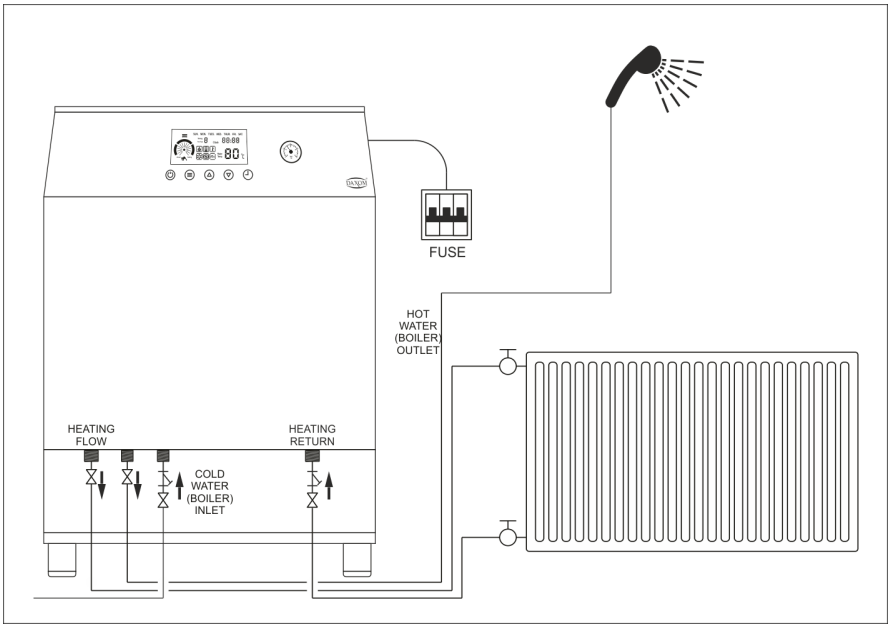

FUSE
BOILER
PUMP
BOILER SERPANTINE FLOW
HEATING FLOW
HEATING RETURN
BOILER SERPANTINE RETURN
TAP WATER FILLING INLET
INSTALLATION DISCHARGE VALVE
SILT TRAP

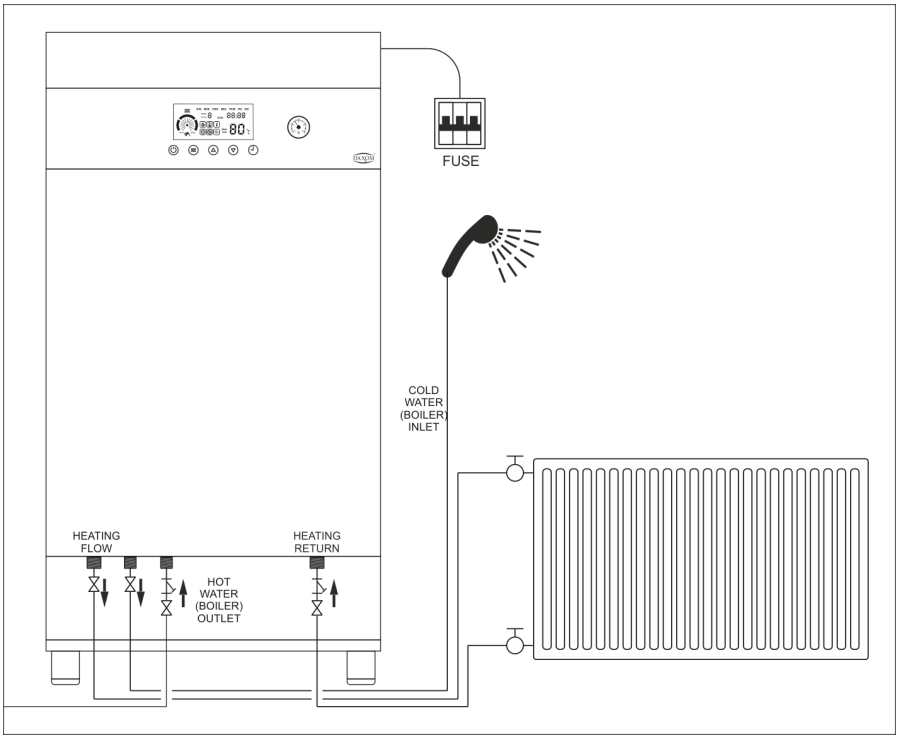
5.3. Floor Type Device Installation

⚠ Installation wall of the device must be as durable as carrying the full weight of the device.

Before the plumbing connections are made, it must be completely balanced and the space in the mounting feet must be taken.







5.4. Connection Of Heating Systen and Water Installation

Heating system must be drawn with suitable diameter pipe for providing enough circulation of heating water. Choosing Radiator pipes smaller than it is needed, fitting constriction or blockage can inability circulation of heating. Connections that are made to device must be easy removable when it is needed. There must be separate cut off valve at device radiator inlet and outlet. Also there must be silt trap at inlet part between valve and device. Valve and still trap must be used at boiler cold water inlet.

5.5. Filling Of Heating Installation

Filling process is done with blue colour filling tap under the device. This process must be done by implementing following instructions

- Be sure that cold inlet tap of boiler is open.
- Open the filling tap.
- When water pressure indicator reaches between 1-1,5 bar, close the filling tap.

- Discharge the accumulated air inside radiators by opening air relief cock placed in side of radiators and close when water starts to flow.
- When the accumalted air inside radiators discharge it can be decrease at heating system water pressure. Make sure that heating system water pressure is between 1 and 1,5 bar. If decreases, complete by opening filling valve.

⚠ After heating system is filled, must be studiously controlled if there is water leakage or not.

⚠ If filling valve is forgot as open and heating system pressure exceeds 3 bar, drainage starts from safety valve inside device.

5.6. DHW Tank Filling

After installment is completed, boiler is needed to fill. This process must be done by implementing following instructions.

- Open device DHW Tank inlet valve.
- Open any tap connected to device hot water outlet (preferably nearest tap). Air inside boiler will be discharged from tap.
- Close the tap after air discharged from tap and continuous water flow start.

⚠ After boiler is filled, must be studiously controlled if there is water leakage or not.

5.7. Electrical Connections

Electrical installation must be done by authorized person according to device capacity and with suitable diameter cable. Electric of device must have suitable specification for for cut off device power and residual current device that has amper value and fuse separately. Fuse must be near to device. Grounding of device must absolutely be done. If there is not grounding at the place that the device is installed, grounding must be made for device by authorized person. Operative of grounding must be controlled in determined periods. Fuse must locate near the device and device cable must not be strained while connect to fuse. Connection of cables to fuse must be made by authorized person.

⚠ Make sure that cables are connected to correct places

⚠ Loose cable connections can be caused to accident

Cable diameter that is calculated according to device capacity and cable length, residual current device and fuse amper values can be seen at the following table.

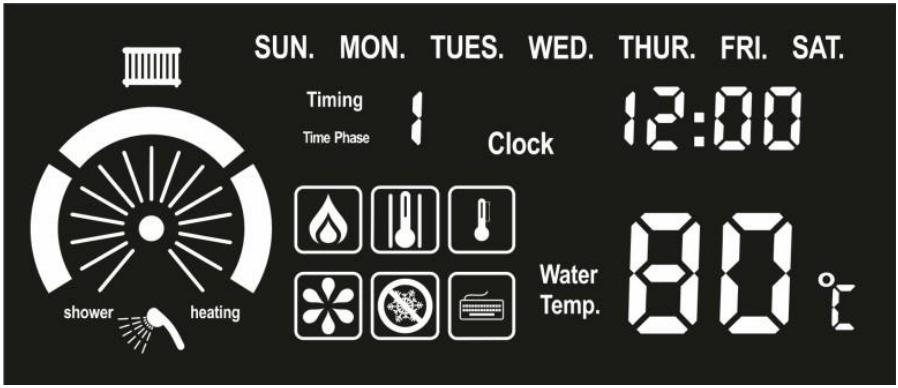
Power (kW)	Phase&Voltage (V)	Current Drawn (A)	Fuse&Residual Current Device (A)	Cable Sections (mm)
3~400 V 50 Hz Devices				
10	3~400	3*15,2	3*20	5*2,5
12	3~400	3*18,2	3*20	5*2,5
16	3~400	3*24,3	3*25	5*4
18	3~400	3*27,3	3*32	5*4
20	3~400	3*30,4	3*40	5*6
24	3~400	3*36,4	3*50	5*6
30	3~400	3*45,5	3*63	5*10
36	3~400	3*54,6	3*63	5*10
40	3~400	3*60,7	3*63	5*16
48	3~400	3*72,8	3*80	5*16
1~220 V 50 Hz Devices				
6	1~220	27,3	32	3*4
10	1~220	45,6	50	3*6
12	1~220	54,6	63	3*10
16	1~220	72,8	80	3*16
18	1~220	81,9	100	3*16

⚠ Cable sections at this table are calculated for maximum 10 m. Consult your authorised service for more than 10 m cable length.

6. DEVICE OPERATION AND USAGE

6.1. LED Display

Operating Condition and settings of the device can be follow from LED panel.



	Radiator / floor heating indicator
SUN.	Days Of Week
Timing Time Phase 1	Time Programming. Can be made 7 pcs time programming
12:00	Hour
	Capacity Indicator
	Ready to operation Indicator
	Hot Water Heating Indicator
	Radiator Heating Indicator
	Heating no need indicator
	Temperature Difference Indicator
	Pump Operation Indicator
	Freezing Prevention Indicator
Water Temp. 80 ℃	Temperature Indicator

6.2. Control Buttons

Control of the device is done with buttons placed under the LED Display.



	On / Off
	Menu exit / Changing
	Temperature increase / Hour and day setting
	Temperature decrease / Back
	Timer program On / Off

6.3. Device Operation

⚠ First operation of the device must be absolutely done by authorized service.

⚠ Our company is not responsible from damages and accidents which can be occured with intervention to device by unauthorized people.

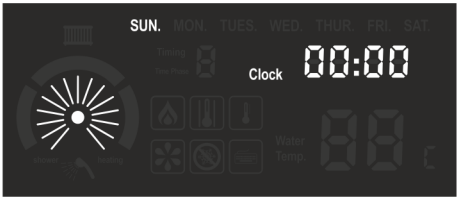
Before operating the device, suitability of all mechanic and electrical connections must be controlled. Heating system must be completely filled and radiator vent must be done. Our company is not responsible from damages and accidents which can be occur because of wrong connection.

Follow following points for operation of device.

- Make sure that device water and radiator valves are open.
- Open residual current device then fuse.
- After all symbols on the LED screen appear a few min, LED screen will be as in the following



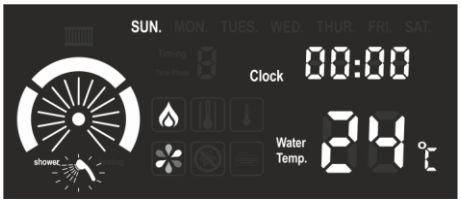
- Hold 2-3 min to ⏻ button for device ON





Device keeps last settings in its memory before OFF. When it is ON again, starts to operate with same settings.

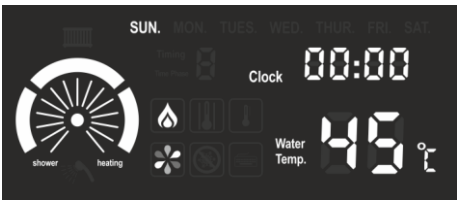
- When operation of the device is set as boiler heating before OFF position if boiler temperature is lower than set temperature, device operates for boiler heating and symbols are seen with "***shower***", expressions symbol blinks. If boiler temperature is equal or more than the set temperature, device passes to standby position.



- When operation off device is set as boiler and radiator heating before OFF position if boiler temperature is lower than set temperature, device operates for boiler heating. and symbols are seen with "***heating***" and "***shower***", symbol blinks.



If boiler temperature is equal or over the set temperature , device operates for radiator heating. and symbols are seen with *"**heating**"* and *"**shower**"*, expression.



- When operation of the device is radiator heating before OFF, device operates for radiator heating. is seen with "heating" expression after pump operates about 1 min, device starts to radiator heating. is seen.



Warning beep is heard after process of pressing knob. For long time pressing knobs (forexample 2-3 seconds), before hearing warning warning beep, it does not mean pressing knob.

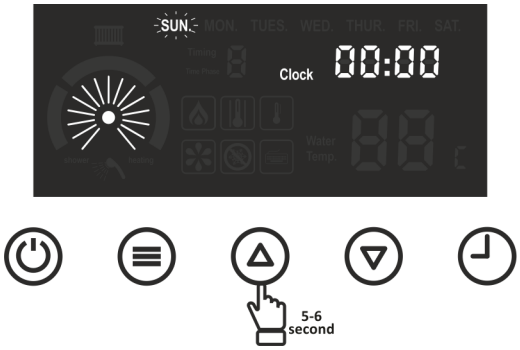
6.4. Operation Parameter Settings

6.4.1. Day and Hour Setting

- Switch off the device



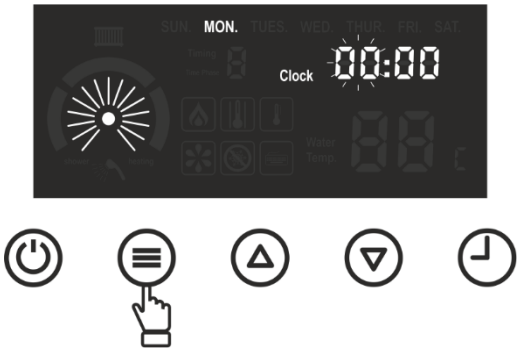
➢ Hold △ button 5-6 seconds. Days start to blink.



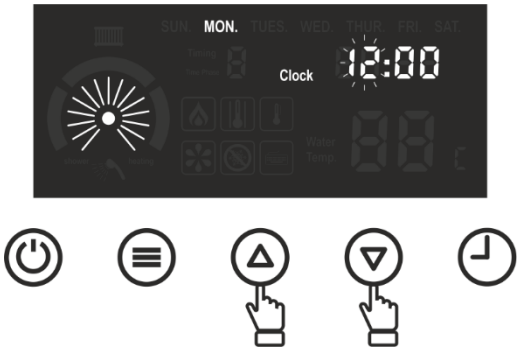
➢ Days are set by pressing with one second intervals to △ or ▽ buttons.



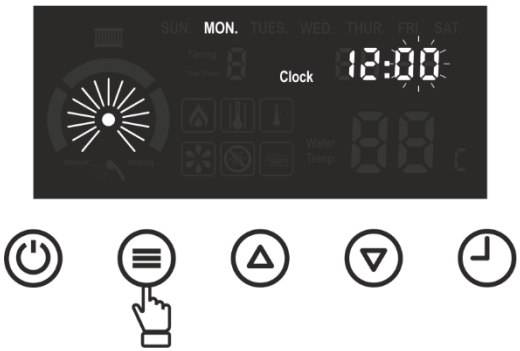
➢ Press ≡ button hour blinks.



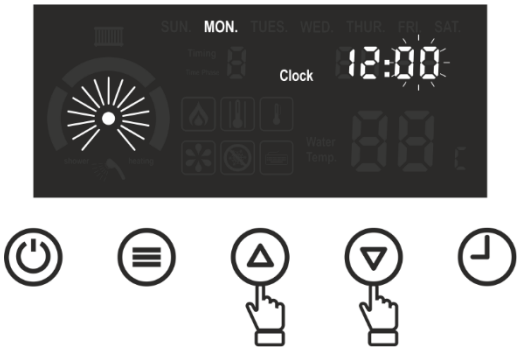
➢ By pressing ⏶ or ⏷ one second interval hour is set between 0 and 23



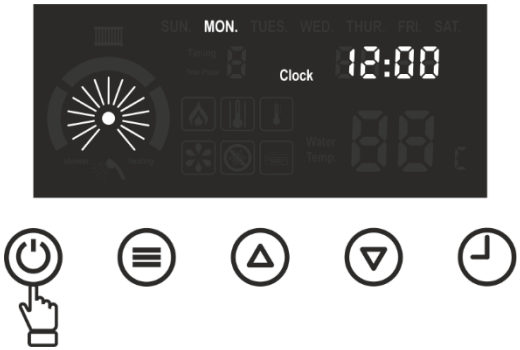
➢ Press ☰ button, minute blinks.



➢ By pressing ⏶ or ⏷ button one second interval min set between 0 and 60.



- By pressing button or if not pressing any button for a 10 sec, exit from setting menu by saving settings.



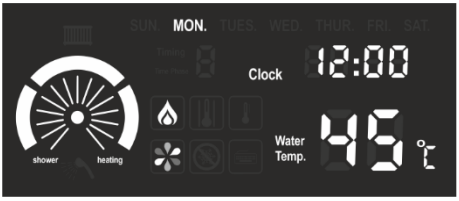
6.4.2. Radiator Temperature Setting

While or symbols are seen at LED Display, (when device is operating for radiato system) radiator heating setting can be made between 35 ºC and 80 ºC by pressing or buttons. While radiator heating setting is made, "***Water Temp***" expression fizzle out, While the device is operating for tap water heating, hot water flow must be stopped for setting radiator temperature. In case the operation mode is set to tap water heating, it is necessary to switch the operation mode to radiator heating for setting radiator temperature. At the end of the process, the device should be taken back to its previous operating position. (See 6.4.8)



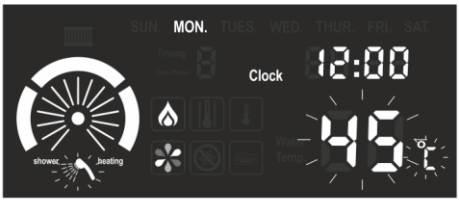
After 2 sec later setting completed, device operation temperature and "***Water Temp***" expression are seen at the LED. Reaching setting temperature of device may take time. After boiler water heating is completed, radiator heating does not start

immediately, radiator heating starts after pump operates for a while for temperature balance.



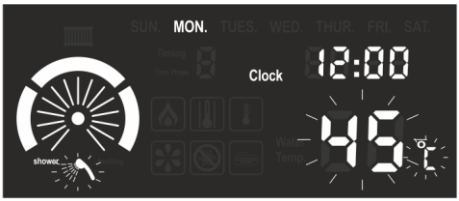
6.4.3. DHW Temperature Setting

Boiler temperature setting ; and symbols are seen at LED Display. When symbol blinks (when device operates for boiler heating) setting can be made between 30 ºC ile 65 ºC by pressing or .





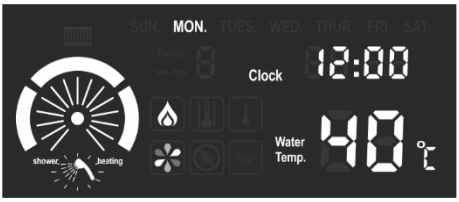
If operation mode is set as tap water heating, it is possible to change boiler temperature at standby mode.





While radiator heating is operating, for setting temperature of tap water,it is needed to change operation mode of the device as tap water heating. At the end of this process, device must be taken to previous operation mode.(Check 6.4.8)

After 2 sec later setting completed, device operation temperature and ***"Water Temp"*** expression are seen at the LED.



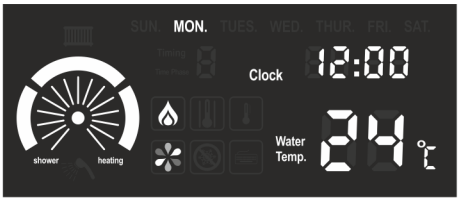
⚠ Boiler heating is always priority.

After device heats the boiler, it operates for radiator heating. Boiler heating starts again when decreases 7 ºC from set temperature.

6.4.4. Temperature Difference Setting

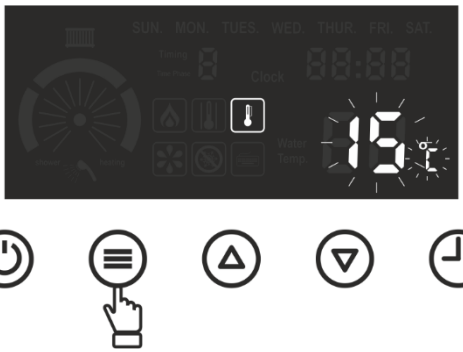
Tempereature difference between Heating exit and Heating return of device can be set. While the device is in normal operation mode;

- Enter setting menu by pressing ☰ 2-3 seconds.

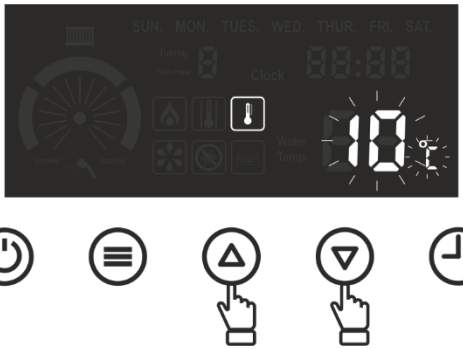




- Press the button one second interval until is seen. Temperature difference start to blink.



- ΔT temperature difference is set with or buttons



- Exit setting menu by pressing



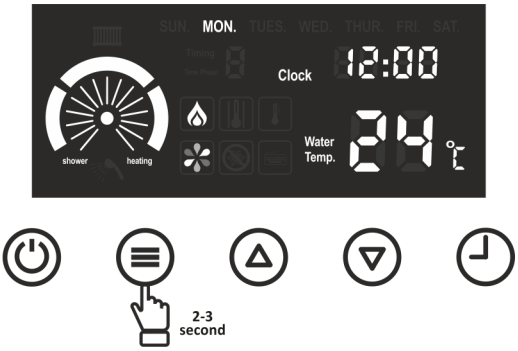
6.4.5. Room Thermostad Setting

It is possible to command device with room thermostad. In this way, device operates according to temperature of environment of room thermostad place. Room thermostad connection must be done by authorized service while the device is activated.

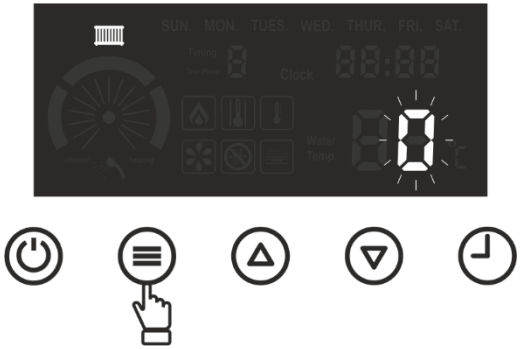
6.4.6. Setting The Heating Mode

Device can be set according to floor heating (low temperature) or radiator heating system. In this way, overheating is prevented especially for floor heating systems. While the device is operating at floor heating mode max 55 ^{o}C, it can be set max 80 ^{o}C at radiator heating mode. Devices connected to floor heating systems will be taken to floor heating mode by authorized services at the time of first activated of device. In this way, in this case, it will be impossible to change heating mode for users by consciously or by mistake. For radiator heating modes, if users want, they can provide operation of device max 55 ^{o}C by changing into heating mode to ground heating mode. While symbol is seen at radiator mode, it is not seen at floor heating mode;

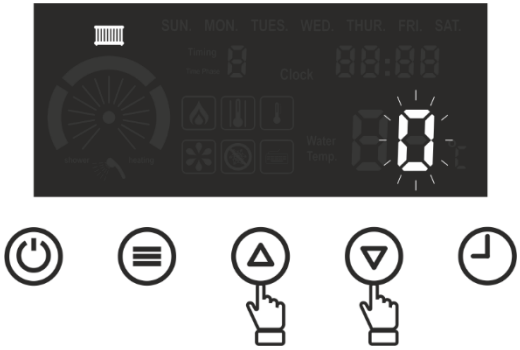
- Enter the setting menu by pressing 2-3 seconds



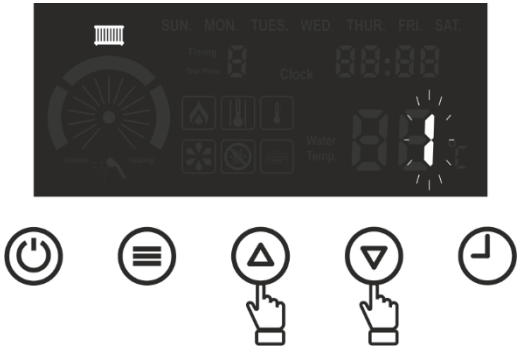
- Press button one second interval until is seen. Heating mode choosing indicator blinks.



- "0" is chosen with or symbols for floor heating mode.

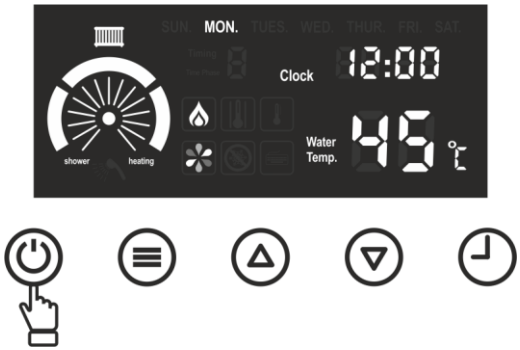


"1" is chosen for radiator heating.



For floor heating systems because of heating mode is set from inside device by authorized service, in this menu “0” set can not be changed.

- Exit setting menu by pressing ⏻ button.

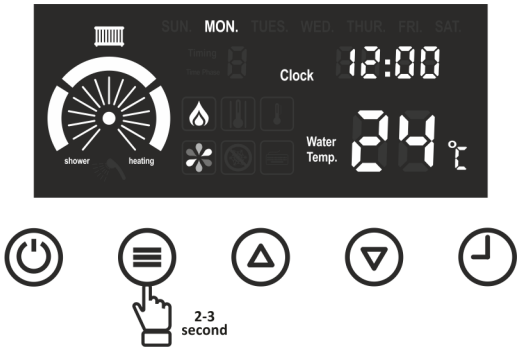


⚠ Definitely temperature must not set over 55 ºC for floor heating systems. In case of setting our companies is not responsible from damages or accidents that may occur.

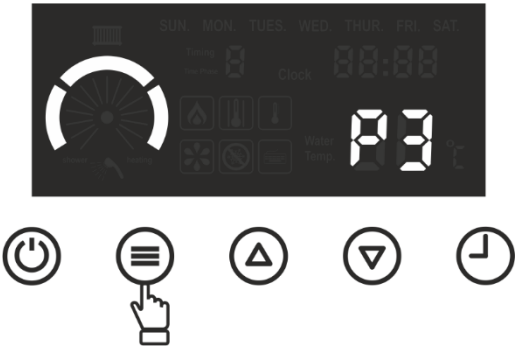
6.4.7. Capacity Setting

Device can operate with 3 different capacities. P1 mean is 1/3 capacity, P2 mean is 2/3 capacity, P3 mean is full capacity. For example if the device is 24kw, P1: 8 KW, P2:16 KW, P3:24 KW. While device operates regularly;

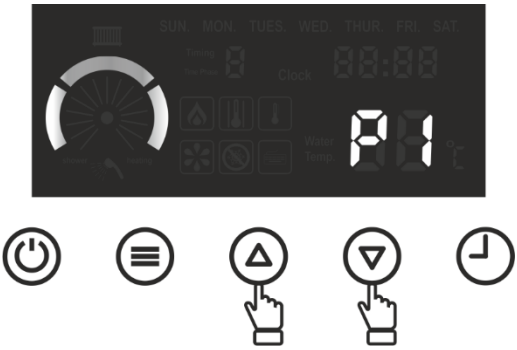
- Enter setting menu by pressing ≡ button 2-3 seconds.

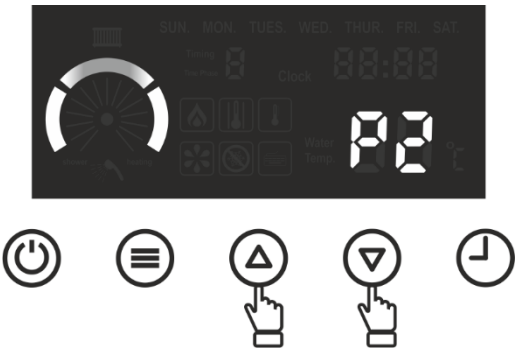


- Press ☰ one second interval until ◠ is seen.



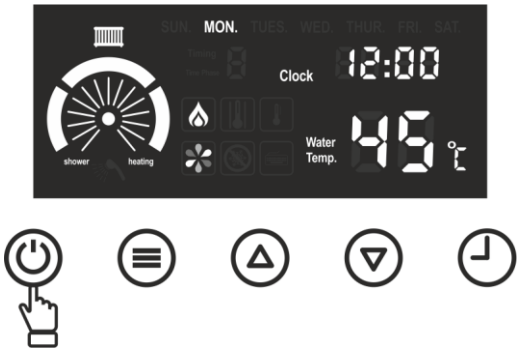
- With △ or ▽ buttons, device capacity can be set as P1, P2 or P3. Indicator lights change according to chosen capacity.







- Exit menu by pressing button.



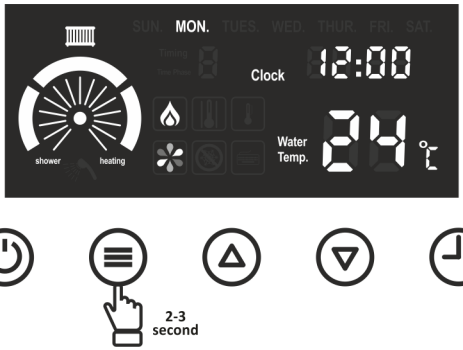
6.4.8. Setting Operation Mode

Device can operate as 3 different operation modes.

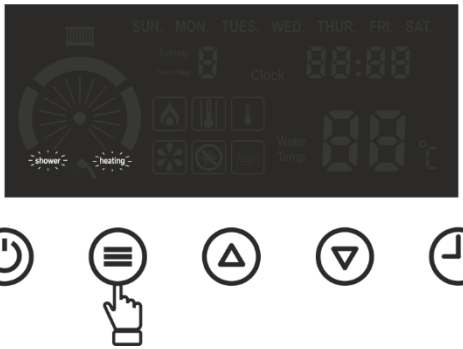
- Radiator Operation Mode: Device only heats radiators. Tap water heat does not occur.
- Boyler Çalışma Modu: Cihaz sadece boyleri ısıtır. Şofben ya da yaz konumu olarak da adlandırılabilir.
- Radiator and Boiler Operation Mode: Device heats both radiator and tap water. Priority is always boiler heating. While radiator heating is being done, if it is needed boiler heating, device operates for boiler heating by stopping radiator heating.

While the device is in normal operating position;

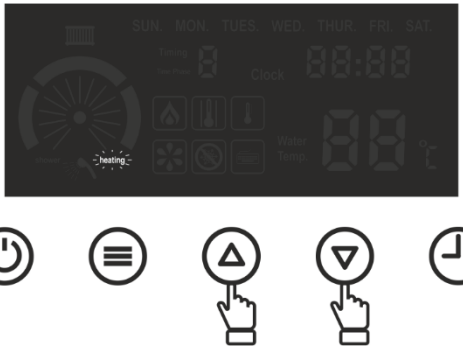
- Enter setting menu by pressing button 2-3 seconds



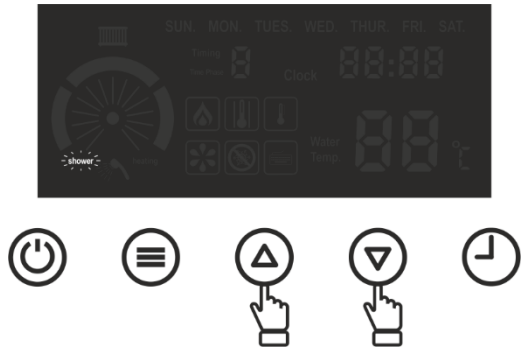
➢ Press ☰ button one second interval until *"**heating**"* and / or *"**shower**"* blink.



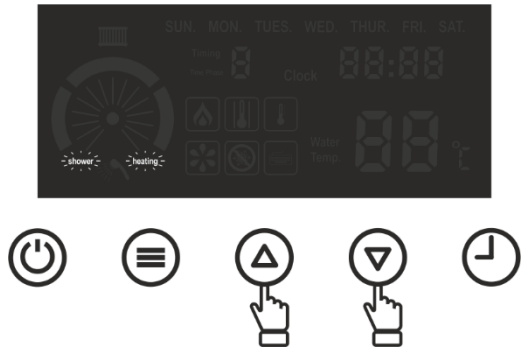
➢ With △ or ▽ button preferred mode is chosen. If *"**heating**"* is chosen device only operates for radiator heating.



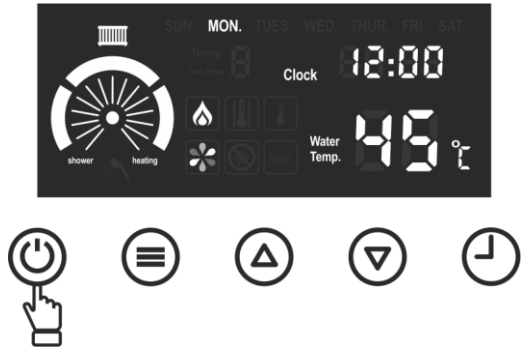
If “***shower***” is chosen device operates for boiler heating.



If “***heating***” and “***shower***” are chosen at the same time device operate for both radiator and boiler heating.



➢ Exit menu by pressing ⏻ button.

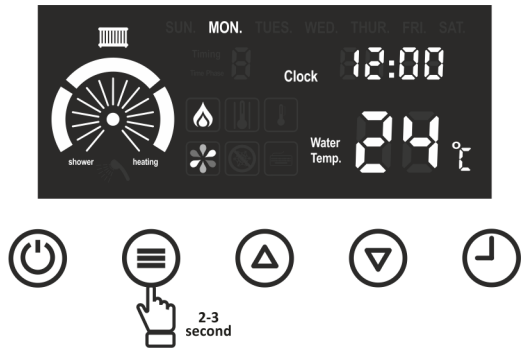


6.4.9. Time Program Setting

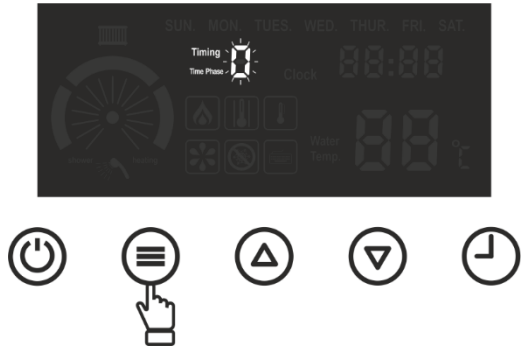
The device can be programmed daily and weekly for radiator heating. With 7 different time programs, the start and end times of the program, the operating temperature of the device during program and the ΔT temperature difference can be adjusted. If the programming has been made and activated, the device will not be heated during periods of time that are not programmed. Device waits at standby position for heating.

Time program can be active or inactive with button. When the time program is active, the current program number is displayed. While the device is in normal operating position;

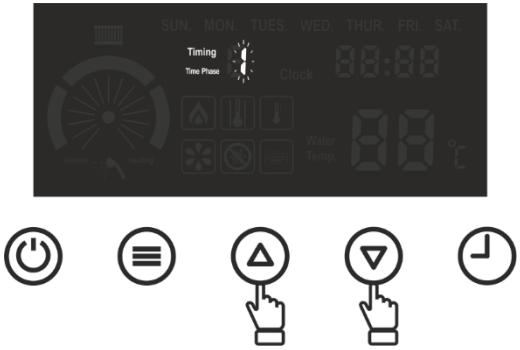
- Enter setting menu by pressing button 2-3 seconds



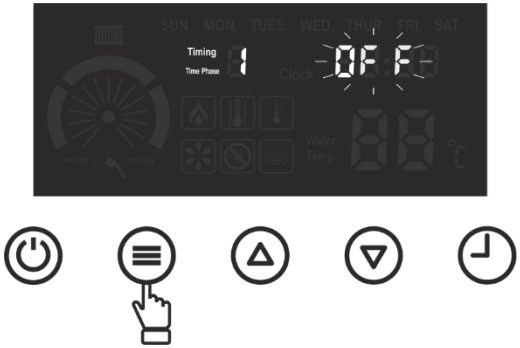
- Press button one second interval until "***Timing Time Phase***" is seen. Timing program blink.



➢ By pressing ⏶ or ⏷ buttons timing program is chosen between 1 and 7.



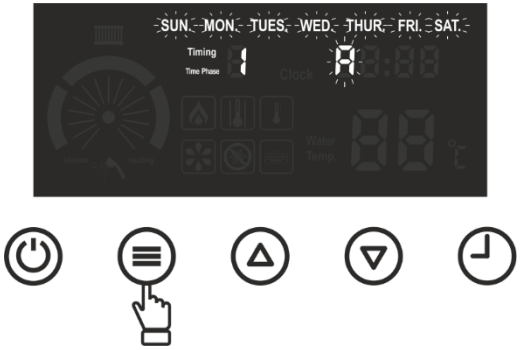
➢ Press ☰ button.



➢ With ⏶ or ⏷ buttons timing program is "***ON***" position. If it stays at "***OFF***" position, can not be entered to timing program.

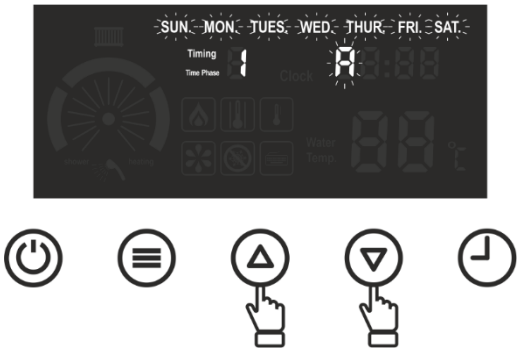


➢ By pressing button week day / days are chosen.



With or buttons, intended week day or days can be chosen. Week days are group as in the following.

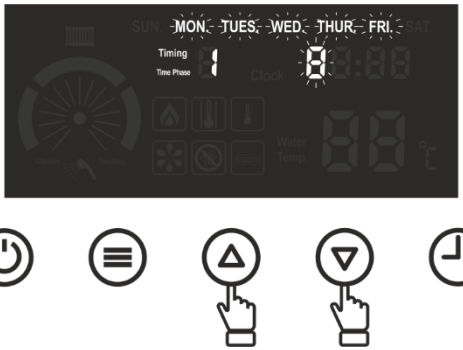
- All days can be chosen (***SUN. MON. TUES. WED. THUR. FRİ. SAT.***)



- Weekends (***SUN. SAT.***)



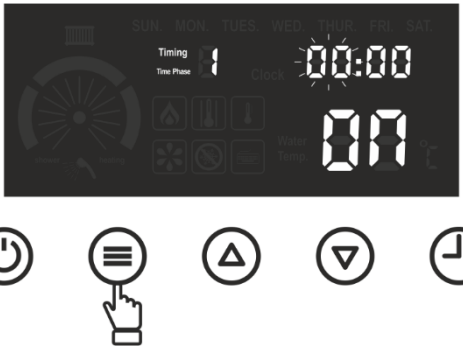
- Weekdays (***MON. TUES. WED. THUR. FRI.***)



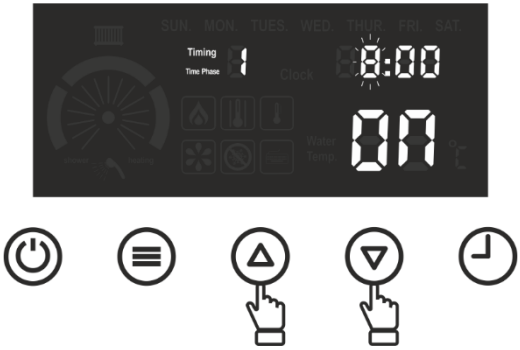
- Days can be chosen one by one



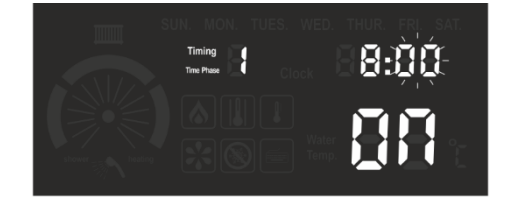
➢ Press ☰ button, program start hour blinks.



➢ With ⓐ or ⓑ buttons, program start hour is determined.

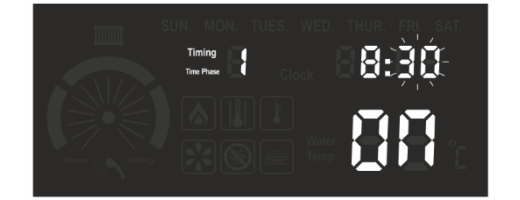


➢ Press ⓒ button. Program start minute blink.



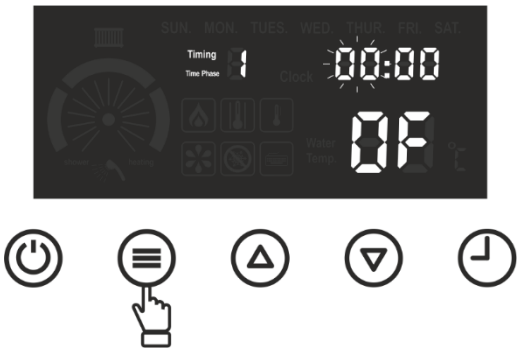


➢ Program minute is determined with ⓐ or ⓑ.

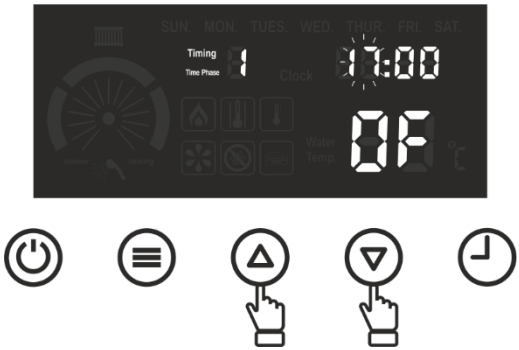




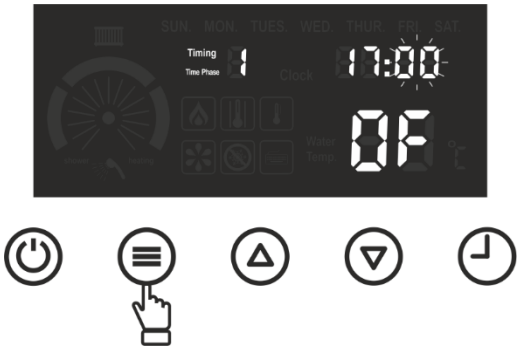
➢ Press button. Program finish hour blink.



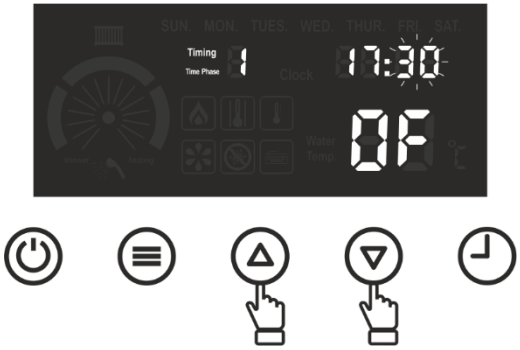
➢ With or buttons program finish hour is determined



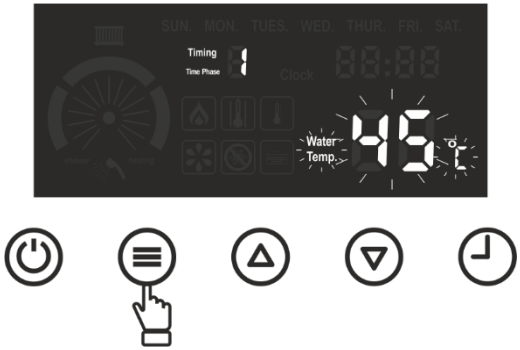
➢ Press button. Program finish min blink.



➢ With ⏶ or ⏷ buttons program finish minute is determined.



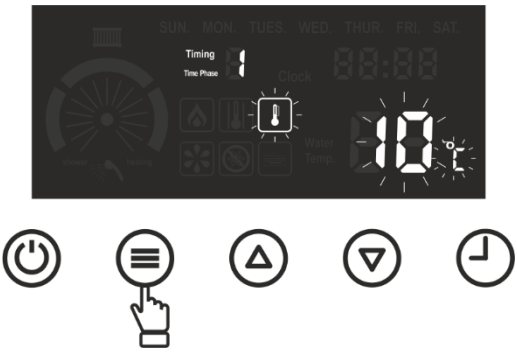
➢ Press ☰ button. Temperature indicator blink.



➢ Operation temperature of intendent program is chosen with ⏶ or ⏷ buttons.



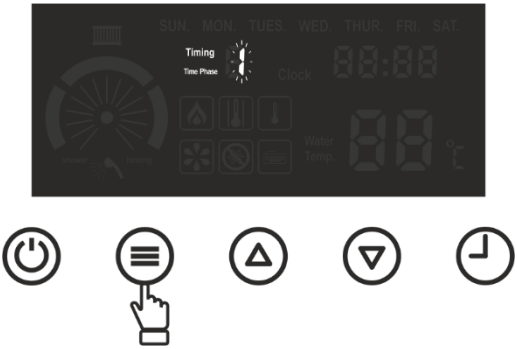
- Press button. symbol and exit / return temperature difference adjustment indicator blink.

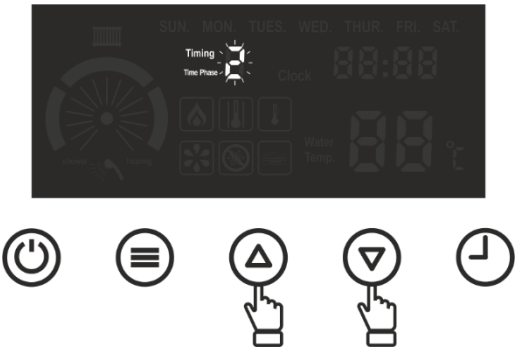


- Intendent ΔT (exit /return temperature difference) at selected program is chosen with or buttons.

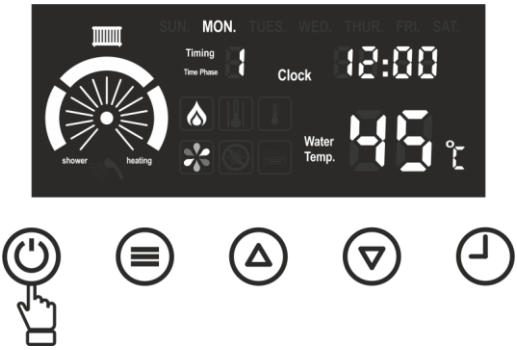


- Press . Other intetendent time program is chosen and repeat starting from 3rd step.





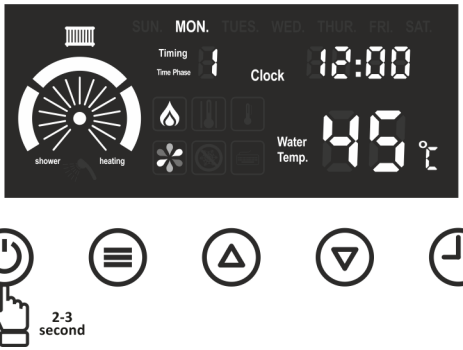
- Setting all time programs are not necessary. You can set time programs between 1 and 7 as much as you want. Because of unadjusted programs remain "***OFF***" position, they will not be active.
- After programming is finished, when it is pressed to ⏻ button or not pressing any button with 10 seconds can exit from setting menu by saving settings.



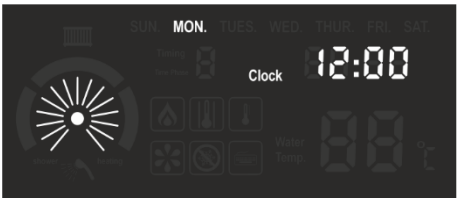
6.5. Make The Device OFF

6.5.1. Temporary OFF

For short time OFF periods, provide the device OFF by pressin ⏻ button 2 or 3 seconds.



By activating electric supply, device will be protected by following steps



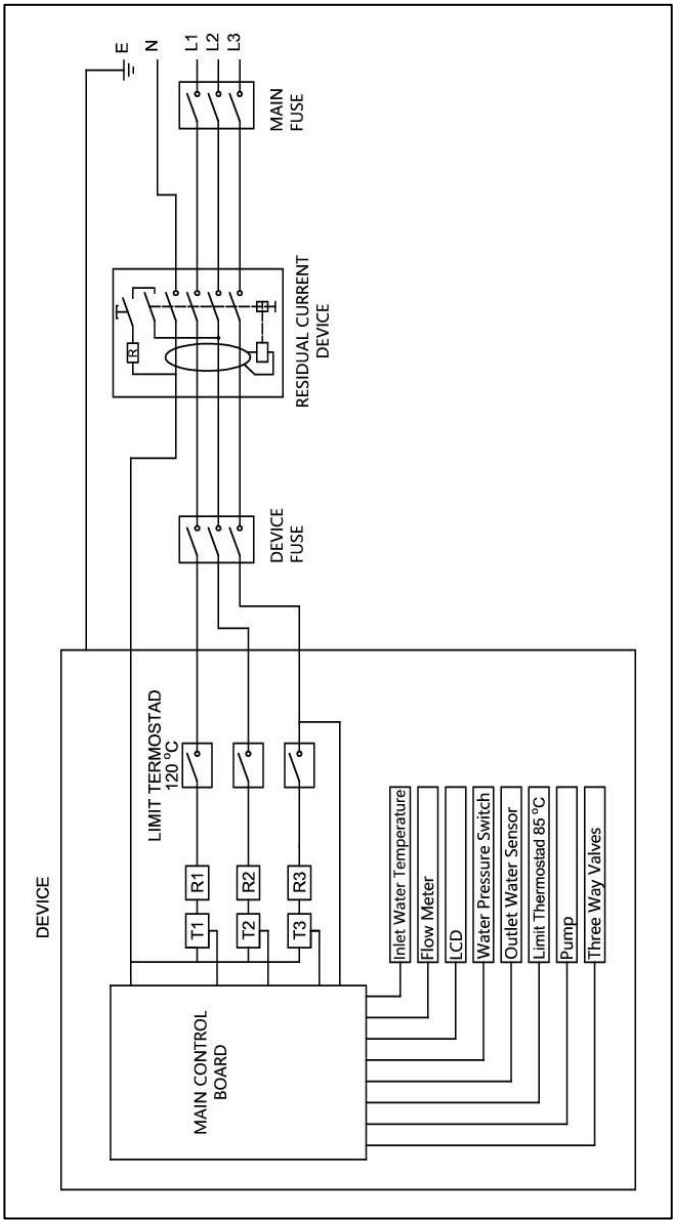
- Freezing Prevention Function: If temperature of water inside device reduces under 5 °C, device operates fpr a while by getting involved pump an heating. Buring antifrost time is seen at LED display.
- Anti-Blockade Function: Pump and 3 way valve inside the device start to operate for a short time once every 18 hrs.

6.5.2. Long Term Off

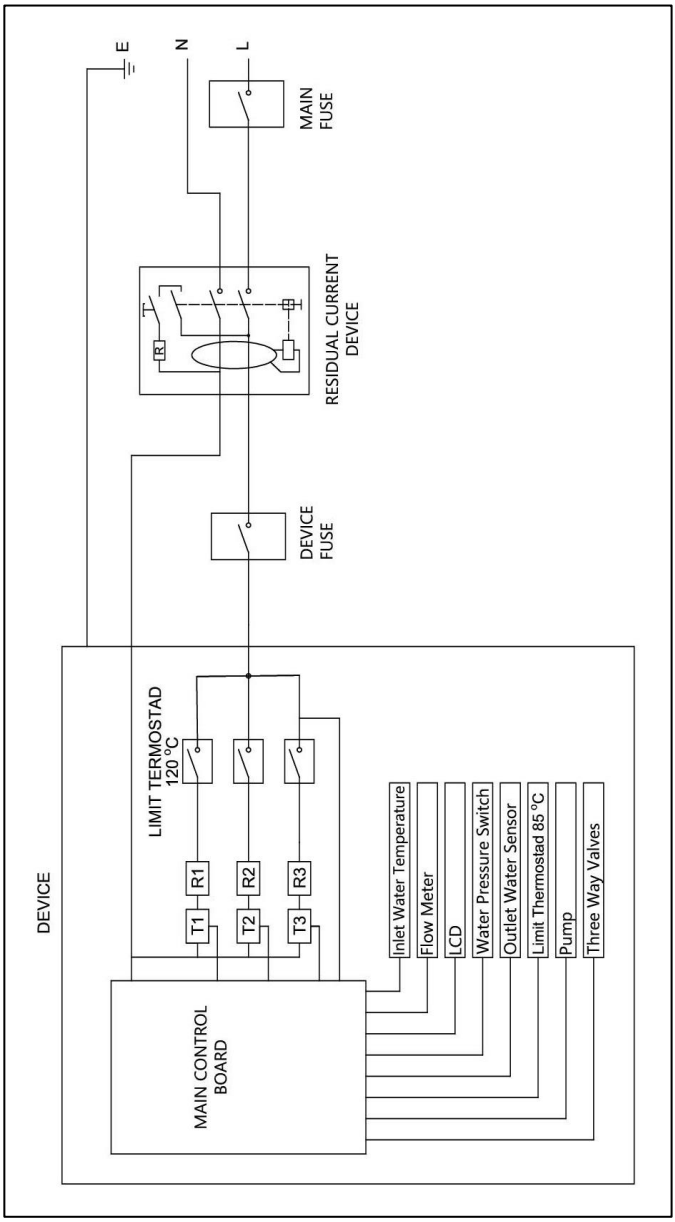
If you do not operate the device for a long time, make the circuit breaker OFF after pressing button 2 or 3 seconds. In this case, because of freezing prevention of the device will not operate discharge the water inside device in case of freezing risk.

7. ELECTRICAL DIAGRAM

7.1. Three Ohase Devices



7.2. Single Phase Devices



8. REPAIR AND SERVICE

During guarantee time of product we provide Free of Charge Service to users against defect of related materials and production about device. When you meet with problem while using, please contact with our after sales service department. Repairing and maintenance of the device by unauthorizedperson will make the device out of warranty. Afterwards our company will not responsible from damages and accidents.

9. TROUBLE SHOOTING

Error Code	Error	Solution
E0	➢ Water pressure is not enough ➢ Water pressure switch damage	➢ Set the water pressure between 1 and 2 bars ➢ Call authorized service
E1	➢ Heating sensor damage	➢ Although you wait for a while if you still have seen the same code, call the authorized service
E3	➢ Warning of water temperature is over 85 ºC	➢ Device will start to operate a few min later
E4	➢ Warning of limit thermostad is in circuit	➢ When the temperature is below 85 ºC, it is going to start to operate ➢ Although you wait for a while if you still have seen the same code, call the authorized service
E5	➢ Pipe is blocked or valve is closed ➢ Pump damage ➢ Flowmeter damage	➢ Control if tis closed valve or not at heating installation and clean silt trap ➢ Call the authorized service

PROBLEM / REASON	No Light At Control Pannel	Buttons Not Operate	Burning Smell	Heating Temperature Is Not	Boiler Not Heat	Water Leakage At Connections	Water Decrease	Water Flow From Safety Valve	SOLUTION WAYS
➢ No electric ➢ Residual current device or Fuse is off ➢ Connection problem of power card with control pannel card ➢ LED card damage	●	●							➢ Control if there is electric or not ➢ Control residual current device and fuse ➢ Call authorised service
➢ Not proper connections ➢ Sealing gasket is damaged						●			➢ Connections must be made again ➢ Renew the sealing gasket
➢ Keyboard damage ➢ PCB damage		●							➢ Call authorised service
➢ Unproper cable using ➢ Loose connection			●						➢ Turn Off the device, call authorised service
➢ High pressure								●	➢ Discharge excess water from discharge valve
➢ Walter valve not opened enough ➢ Device is set as radiator operation mode ➢ Flow sensor damage					●				➢ Open water valve completely ➢ Control device setting ➢ Call authorised service
➢ Resistance damage ➢ Limit thermostad cut off current ➢ Triac damage ➢ Control card damage				●	●				➢ Call authorised service
➢ Not enough water pressure					●				➢ Control water pressure
➢ Installation pipe water leakage							●		➢ Remove the leagage of heating system installation

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