

DAXOM / Naviels

Electric Boiler



Installation And Operating Manual

Comfort and Confidence Proper To Your Life

CE

Naviels



1. SAFETY WARNINGS

1. Device installation must be made by authorized personnel according to instructions that are determined inside this manual.
2. Start-up of device must be made by Authorized Service. Do not try to operate the device by yourself.
3. Connection of water and heating installation of the device must be made as safety.
4. Device can operate with the voltage determined inside this manual according to its model. Suitable system voltage must be provided.
5. 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.
6. Energy must be provided to device with suitable cable diameter determined inside this manual. Residual Current Device and grounding must definitely place.
7. Installation of the device must not be made to humidity places and places that can be wet from external factors.
8. Do not keep inflammable, explosive or easy flammable materials and objects near the device.
9. 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.
10. 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.
11. 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.
12. Safety valve outlet must be connected to suitable discharge and ventilation system. Company rejects liability in case of any damage that occurs because of any intervention to safety valve.
13. Remove all packing wastes carefully without giving damage to human and environment health.

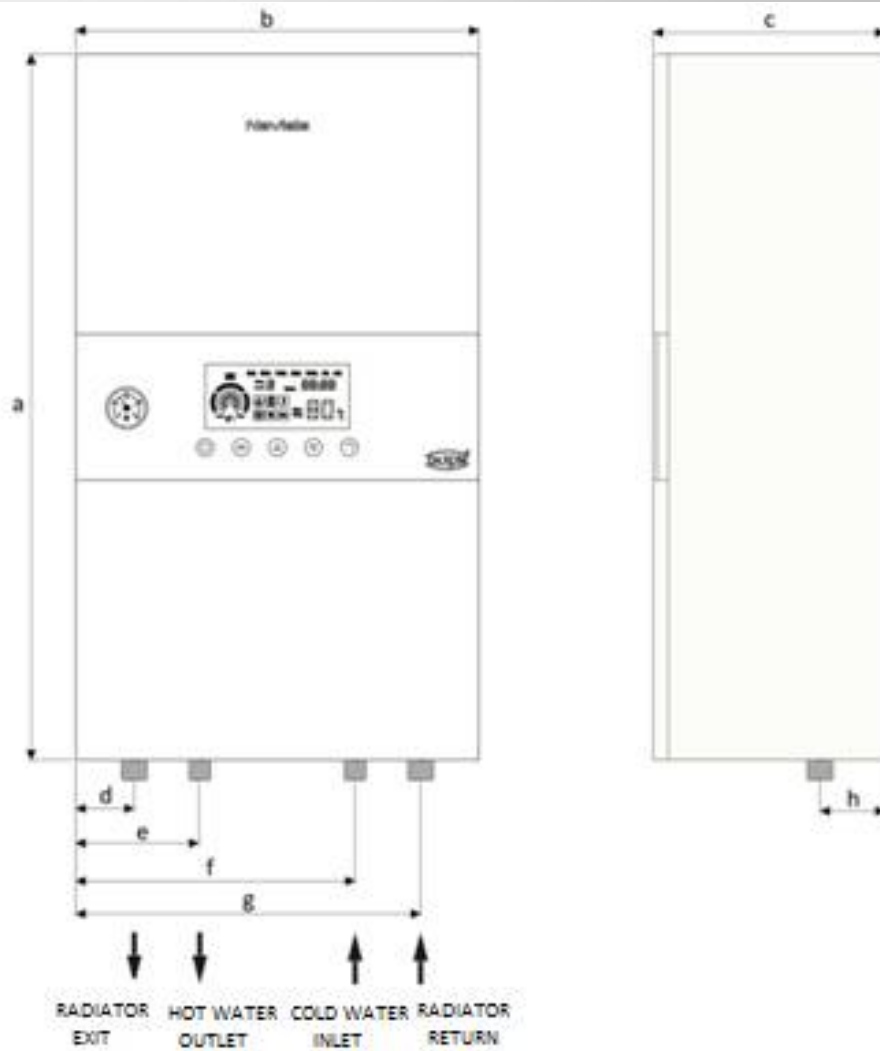
14. In case of water leakage happens, water feed must be close and authorized service agency must be immediately informed.
15. Hydraulic system operation pressure must be between 1 and 2 bars therefore it must not exceed 3 bars. In case of need, pressure can be reset as shown under the paragraph "FILLING THE SYSTEM".
16. If the device will not 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 and hot water network cycle for preventing freezing.
17. Device cannot be used by children or disabled people without helper.
18. In case of having smoked or burning smell originating from device, make switch of the "OFF" position and contact with authorized service agency.
19. Do not touch the device with wet hand or when outside of device is wet.
20. Do not use substances such as detergent and thinner for the cleaning of the device. Clean outside of the device with damp –dry fabric.
21. Superheated water can be flow when the hot water is firstly opened.
22. The lifetime of the device which is determined by Ministry of Custom and trade is 10 years.

2. SUGGESTIONS FOR ECONOMICALLY USED

1. Adjust ambient temperature according to your need. Increasing 1 degree of ambient temperature increases your energy consumption about %6.
2. Having homogeneous heating at parts according to intended use that is placed at the heating place, increases saving.

3. Adjustable needed temperature value for every part by using thermostatic valve for radiators increases the saving but using of room thermostat and thermostatic valve at the same time can create problem.
4. While using of thermostatic valve and room thermostat, for sensing the temperature correctly, make suitable position of objects such as curtain and goods that influence ambient airstream.
5. Room thermostat must be far away from goods and devices which influences sense of ambient real temperature and must be placed to suitable height.
6. Ventilation of heated environment very long time increases 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 provides energy saving.
7. At night time or when you are not at home while turning device down provides keeping temperature at definite level also can save.
8. Adjustment of device operation temperature setting according to exterior temperature provides saving.
9. Adjustment of tap water temperature setting according to your need as not needed make lukewarm with cold water provides saving.
10. Use water as consciously. Consciously using water increases saving.

3. CONFIGURATION OF THE DEVICE



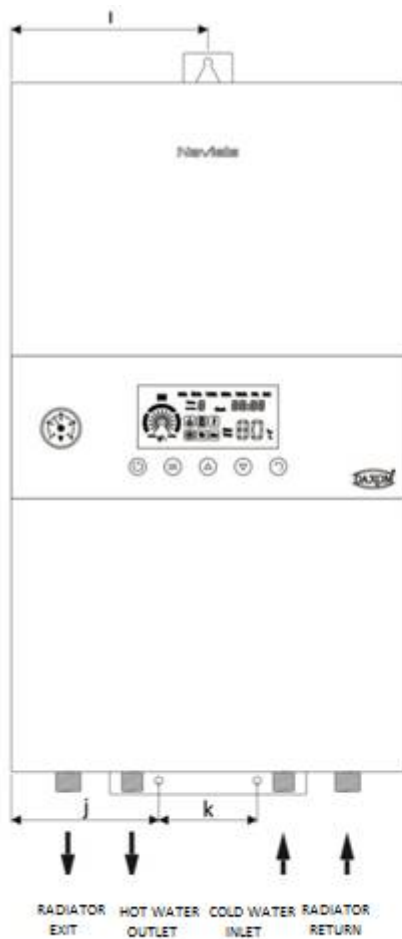
4. TECHNICAL SPECIFICATIONS

Technical Specifications					
Model	Power (kW)	Dimensions L*W*H (mm)	Weight (Kg)	Expansion Tank (l)	$\Delta t=25$ °C Hot Water Amount (l/min)
3~400 V.50 Hz Electrical Heating and Hot Water					
UKDAX-10EDT	10	700*400*250	26	7	5,8
UKDAX-12EDT	12	700*400*250	26	7	6,9
UKDAX-16EDT	16	700*400*250	26	7	9,2
UKDAX-18EDT	18	700*400*250	26	7	10,4
UKDAX-20EDT	20	700*400*250	26	7	11,5
UKDAX-24EDT	24	700*400*250	26	7	13,8
UKDAX-30EDT	30	700*450*320	34	10	17,2
UKDAX-36EDT	36	700*450*320	34	12	17,2
UKDAX-40EDT	40	700*450*320	34	12	17,2
UKDAX-48EDT	48	700*450*320	34	12	17,2
1~220 V.50 Hz Electrical Heating and Hot Water					
UKDAX-10EDM	10	700*400*250	26	7	5,8
UKDAX-12EDM	12	700*400*250	26	7	6,9
UKDAX-16EDM	16	700*400*250	26	7	9,2
UKDAX-18EDM	18	700*400*250	26	7	10,4
3~400 V.50 Hz Only Electrical Heating					
UKDAX-10ETT	10	700*400*250	23,8	7	-
UKDAX-12ETT	12	700*400*250	23,8	7	-
UKDAX-16ETT	16	700*400*250	23,8	7	-
UKDAX-18ETT	18	700*400*250	23,8	7	-
UKDAX-20ETT	20	700*400*250	23,8	7	-
UKDAX-24ETT	24	700*400*250	23,8	7	-
UKDAX-30ETT	30	700*450*320	31,8	7	-
UKDAX-36ETT	36	700*450*320	31,8	12	-
UKDAX-40ETT	40	700*450*320	31,8	12	-
UKDAX-48ETT	48	700*450*320	31,8	12	-
1~220 V.50 Hz Only Electrical Heating					
UKDAX-10ETM	10	700*400*250	23,8	7	-
UKDAX-12ETM	12	700*400*250	23,8	7	-
UKDAX-16ETM	16	700*400*250	23,8	7	-
UKDAX-18ETM	18	700*400*250	23,8	7	-
3~400 V.50 Hz Only Electrical Heating Without Pump and					
UKDAX-72ETP	72	800*450*320	37,8		-

Technical Specifications		Radiator	Bath Water
Min.Operation Pressure	bar	1	0,5
Max.Operation Pressure	bar	3	10
Min.Setting Temperature	°C	35	35
Max.Setting Temperature	°C	80	55
Connections	"	¾	½

5. INSTALLATION OF BOILER

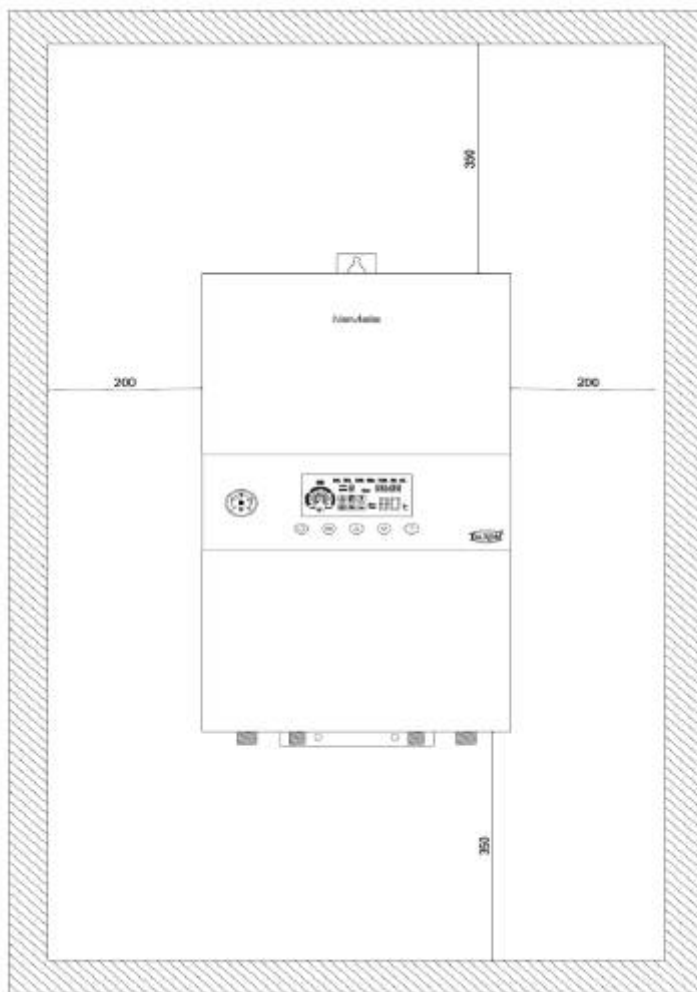
Boiler installation must be done by authorized personnel.



	10-24 KW	24-48 KW	72 KW
a	700	700	800
b	400	450	450
c	250	320	320
d	58	83	93
e	122	147	-----
f	277	302	-----
g	342	367	367
h	65	75	75
i	200	225	225
j	150	175	125
k	100	100	200

5. 1 INSTALLATION CONDITIONS AND SAFETY WARNINGS

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



For the right position of the device;

Do not place 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, wash the all system pipes carefully for removing any residual things that can give damage to operation of the device. In case of leakage cause from overpressure of heating system, place water collecting channel that has suitable discharge pipe under safety valve. There is no need to have safety valve for tap water cycle but be sure that waterworks is not exceed the 6 bar. If you suspect about this, you can have pressure reduce valve installed.

Device installation place must be far way from blockers, obstruction parts and bulges during repairing and maintenance.

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 INSTALLATION OF DEVICE

From under and upper part of the device ,drill min 2 pcs suitable diameter holes to the place which is chosen as suitable according to clauses determined above. Fasten suitable fixing plugs to holes. Screw the device to holes from up and down. Screw from more point when it is needed.

5. 2.1 Connection of Heating System and Plumbing

Heating system must be drawn with suitable diameter pipe for providing enough circulation of heating water. Choosing radiatorpipes smaller than it is

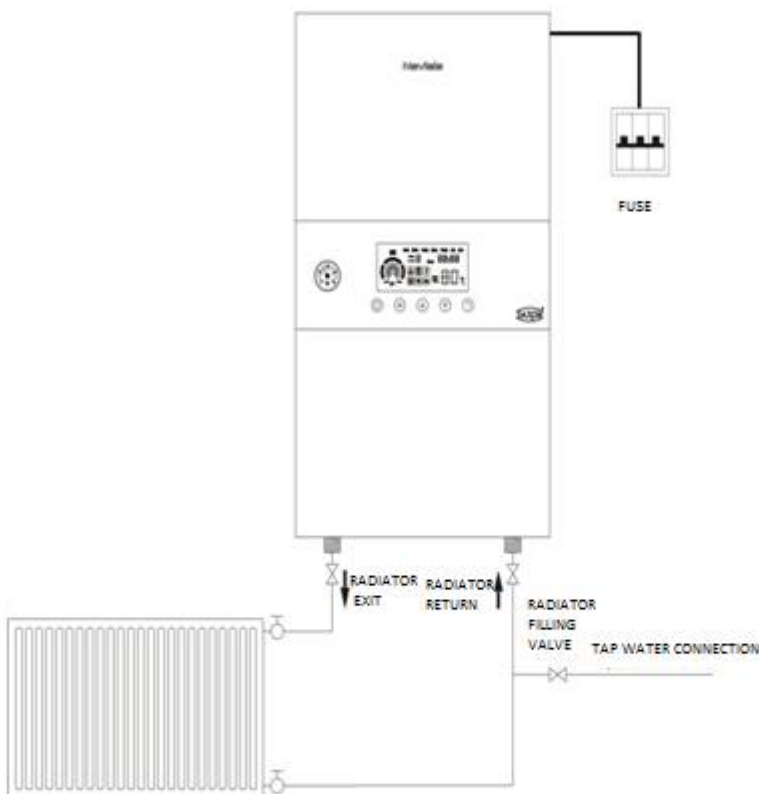
needed, fitting constriction or blockage can cause inability circulation of heating. Connections that are made to device must be easy removable when it is needed. Valve and silt trap must be used for water and radiator inlet pipe.

5.2.1.1 Filling Heating System for Models of EDT and EDM

After hydraulic connections are made, filling the heating system is necessary. For models of UKDAX –xxEDT and UKDAX –xxEDM this process is made with filling tap under the device. This process must be done by implementing following instructions.

- Be sure cold water inlet tap is open.
- Open filling tap until water pressure indicator comes between 1 and 1, 5 bar.
- Close the filling tap when filling is completed.
- When the air collected inside radiators is discharged, it can be reduce at radiator water pressure. Be sure by checking radiator water pressure is between 1 and 1, 5bar. If there is decrease, it must be completed by opening filling tap.
- It must be checked studiously if there is water leakage or not.

5.2.1.2 Filling Heating System for Models of ETT and ETM



After hydraulic connections are made, filling the heating system is necessary. For the model of UKDAX –xxET T and UKDAX –xxEDM this process is made with filling valve connected to heating system. For this, connection with valve must be made from cold water installation to heating system. This valve must be placed near place to device because of it will be used for filling the heating system and must be position as it can be seen pressure indicator when the

device is opened. Silt trap is needed after filling valve. Filling process must be done by implementing following instructions.

- Open filling tap until water pressure indicator comes between 1 and 1,5 bar.
- Close the filling tap when filling is completed.
- When the air collected inside radiators is discharged, it can be reduce at radiator water pressure. Be sure by checking radiator water pressure is between 1 and 1,5bar. If there is decrease, it must be completed by opening filling tap.
- It must be checked studiously if there is water leakage or not.

5.2.2 ELECTRICAL CONNECTIONS

Electrical installation must be done by authorized person according to device capacity and with suitable diameter cable which is determined according to cable length. Electrical installation must have suitable specification for cut off boiler power and residual current device that has ampere 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 device was installed, grounding must be made for device authorized person. Grounding must be controlled if it is operative or not by authorized personnel in determined period. Fuse must be located near the device; there must be cable after fuse which is enough as making connection to device. Connection of cables to device must be made by authorized personnel.

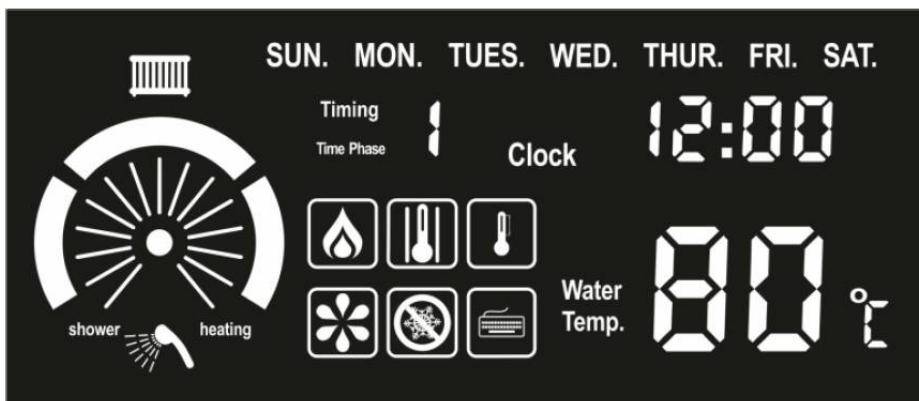
Cable diameter that is calculated according to device capacity and cable length, residual current device and fuse values can be seen at the following table.

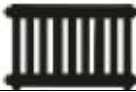

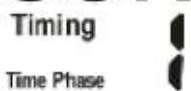



Model	Power(kW)	Draw Current (A)	Fuse and Residual Current Device (A)	Section	Model	Power(kW)	Draw Current	Fuse and Residual Current Device(A)	Section
3-400 V. 50 Hz Electrical Heating and Hot Water					3-400 V.50 Hz Electrical Only Heating				
UKDAX 10EDT	10	3*15,2	3*16	5*2,5	UKDAX 10ETT	10	3*15,2	3*16	5*2,5
UKDAX 12EDT	12	3*18,2	3*20	5*2,5	UKDAX 12ETT	12	3*18,2	3*20	5*2,5
UKDAX 16EDT	16	3*24,3	3*25	5*2,5	UKDAX 16ETT	16	3*24,3	3*25	5*2,5
UKDAX 18EDT	18	3*27,3	3*32	5*4	UKDAX 18ETT	18	3*27,3	3*32	5*4
UKDAX 20EDT	20	3*30,4	3*40	5*4	UKDAX 20ETT	20	3*30,4	3*40	5*4
UKDAX 24EDT	24	3*36,4	3*50	5*6	UKDAX 24ETT	24	3*36,4	3*40	5*6
UKDAX 30EDT	30	3*45,5	3*63	5*10	UKDAX 30ETT	30	3*45,5	3*50	5*10
UKDAX 36EDT	36	3*54,6	3*63	5*10	UKDAX 36ETT	36	3*54,6	3*63	5*10
UKDAX 40EDT	40	3*60,7	3*63	5*16	UKDAX 40ETT	40	3*60,7	3*63	5*16
UKDAX 48EDT	48	3*72,8	3*80	5*16	UKDAX 48ETT	48	3*72,8	3*80	5*16
1-220 V.50 Hz Electrical Heating and Hot Water					1-220 V.50 Hz Only Electrical Heating				
UKDAX 10EDM	10	1*45,5	1*50	3*6	UKDAX 10ETM	10	1*45,5	1*50	3*6
UKDAX 12EDM	12	1*54,6	1*63	3*10	UKDAX 12ETM	12	1*54,6	1*63	3*10
UKDAX 16EDM	16	1*72,8	1*80	3*16	UKDAX 16ETM	16	1*72,8	1*80	3*16
UKDAX 18EDM	18	1*81,9	1*100	3*16	UKDAX 18ETM	18	1*81,9	1*100	3*16









6. OPERATION AND USING OF THE DEVICE

6.1 LCD DISPLAY

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








	Radiator operation indicator
	Days of week
	Time programming. Can be made 3 pcs time programming
	Hour
	Capacity indicator
	Ready to Operation indicator

	Water heating indicator
	Radiator heating indicator
	Over Heating Indicator
	Over Heating Difference Value
	Pump operation indicator
	Freezing prevention indicator
	Room Thermostat Connection indicator
	Temperature indicator

6.2 FUNCTION KNOBS

Use knobs located under LCD display for boiler using.



	ON / OFF
	Menu Exit / changing
	Temperature increase / up
	Temperature decreasing /down
	Reset / Timer ON OFF

6.3 Operation of the Device



First operation of the device must absolutely made by Authorized Service.



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

Before operating the device, suitability of all connections of mechanics and electrical must be controlled. Heating system must have between 1 and 2 bar pressure flowage for device. Our company is not responsible from damages and accidents which can be occur because of wrong connection.

Follow following points for the operation of device.

Be sure device water and radiator valves are open. (Only radiator valve is open for ETT and ETM models.)

Be sure that fuse and residual current device are positioned as preventing electric transition.





After you open enough insulation from head of electrical cables, place whole conductive part of cable by loosening connection terminal occurred at device and tightens cable holder screw as not looseness. Be sure that cable fastens to its place as completely and solidly. Complete the connection by doing same process for other cables.

Be sure that cables were connected to correct places.



Loosen cable connections can be caused accidents. Open residual current device the fuse. After all indicating lights are seen within a few seconds, LCD display will be as in the following.















Keep press  2 seconds. If setting heating mode of the device was radiator mode before it is OFF, after pump is operated about 1 min, device start to radiator heat and  is seen inside display. If the setting of the device was water heating before it is OFF, it stays in standby mode for hot water using. Warning beep is heard after every pressing knob process. For long time pressing knobs (for example 2-3 seconds), before hearing warning beep, it does not mean pressing knob.

6.4.2 RADIATOR HEATING SETTING

6.4 OPERATION PARAMETER SETTINGS

6.4.1 DAY AND TIME SETTING











1. Bring the device "OFF" position.
2. Keep press  button 5-6 seconds, days start to blink, day setting makes with  or  buttons.
3. Press  button, hour blinks time setting between 0 and 23 is done by pressing  or  ns.
4. Press  button minute blinks, minute setting between 0 and 60 is done by pressing  or  ns.
5. By pressing  button or not pressing any button for a 10 second , exit from setting menu by saving settings.







While the device is operating for heating, can be set between 35 and 80 degree by pressing  or  buttons. While it was making

radiator temperature set, “WATER TEMPERATURE” expression fizzle out and setting temperature starts to blink. Two seconds later after setting is completed, device operation temperature is seen in LCD and “WATER TEMPERATURE” also seen in LCD. Reaching setting temperature of the device can take a time.

6.4.3 SETTING TAP WATER TEMPERATURE

Bath water temperature can be made in 3 ways. These are;

1. While tap water is flowing, setting can be made by   buttons.
2. If the device is only set for hot water (summer mode), setting can be made by  or  buttons while standby mode or operation mode.
3. After the device is only taken to hot water heating mode (summer mode), setting can be made. For this after it is pressed  2-3 seconds, after pressed  →  →  →  → 







“Shower” is chosen with  then  to  device is taken to summer mode. After that, temperature setting is made with  and  (after  process, device must be again taken to first operation mode).

During the setting time, heating temperature blinks. Two seconds later after setting is completed, device operation temperature is seen at the display and “WATER TEM” is seen at the display.

6.4.4 MAKING ΔT TEMPERATURE DIFFERENCE SETTING

While the device reaches to overheat temperature mode, it can be set temperature difference which is wanted to operate.

While the device is operating regularly,




1. Enter setting menu by pressing  button 2-3 seconds.
2. Press to  button  is seen, ΔT temperature difference starts to blink.
3. ΔT temperature difference value is set with  or  buttons.
4. Exit setting menu by pressing  button.




6.4.5 MAKING ROOM THERMOSTAD SETTING

It is possible to control device with room thermostat thus the device is operate according to ambient temperature which room thermostat occurs. While the device which will make room thermostat connection is starting-up by authorized service, room thermostat connection will be activated from inside of device. After room thermostat connection is done to the device, it is needed to room thermostat bring into use from setting menu. Although room thermostat is connected, if it is not brought into use from setting menu, it is not function. While the room thermostat is not connected, if it is brought into use, device is continuously stood by for heating and radiator does not operate. When the device room


thermostat function is set as ON,  seen.

While the device is operating regularly,







1. Enter setting menu by pressing  button 2-3 seconds.
2. Press  button 2 times.  is seen , room thermostat ON/OFF indicator blinks

3. With  or  buttons, it is set to “1” for room thermostat bring into use, it is set to “0” for putting hold on device.
4. Exit setting menu by pressing  button.

6.4.6 MAKING SETTING OF HEATING MODE

Device can be set according to floor heating (low temperature) and radiator heating system. Thus over heating is prevented especially for floor heating systems. While the device is operating at floor heating mode, it is set maximum 55°C. While floor heating system connected heaters is starting-up by authorized service, it will be set floor heating mode inside the device. In this case, it will be impossible to change heating mode by user by consciously or by mistake. For radiator heating modes, if users want, they can persuade operating of device maximum 55°C by changing into heating mode to ground heating mode. While the device is set for radiator heating, it is seen 







While the device is operating regularly,

1. Enter setting menu by pressing  button 2-3 seconds.
2. Press  button 3 times,  seen, heating mode choosing indicator blinks.
3. With  or  buttons it is set to 0 for heating mode bring into use floor heating, it is set to 1 bring into use for radiator heating. For floor heating systems, because of heating mode is set from inside device by authorized service, in this menu “0” set cannot be changed.
4. Exit setting menu by pressing  button.

6.4.7 MAKING SETTING OF THE CAPACITY

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: 8Kw, P2: 16Kw, P3:24Kw.

While the device is operating regularly,






1. Enter setting menu by pressing  button 2-3 seconds.
2. Press  4 times  is seen, capacity indicator blinks.
3. With  or  buttons, heating capacity is set as P1, P2 or P3.
4. Exit setting menu by pressing  button.

6.4.8 MAKING SETTING OF THE OPERATION MODE


Device can operate with 3 different operation modes.






1. Only Radiator Heating Mode: Device only makes heating. Although tap water is wanted to heat, heating tap water cannot be occurred while heating mode is active.
2. Only Tap Water Heating Mode: Device only heats the tap water. This mode can be named also as "Heater" mode or "Summer" mode.
3. Radiator and Tap Water Heating Mode: Device makes both radiator heating and tap water heating. Priority is for tap water heating. When the device heats, if it is needed tap water, device operates for heating tap water by shut down radiator heating.

























While the device is operating regularly,

1. Enter setting menu by pressing  button 2-3 seconds.
2. Press  5 times according to setting that it was made before, "heating", "shower" or both of them blinks.
3. With  or  buttons, preferred mode is chosen.
4. Exit setting menu by pressing  button.

6.5 MAKING SETTING OF TIMER


Device can be programmed as daily or weekly for radiator heating. Daily 3, weekly 21 programs can be made. While programming, settings of program start and finish time, operation temperature of device during program time and ΔT temperature difference can be made. If the program is made or the program is active position, device stays in heating mode for period of times that are not programmed. With  button programmer can be activated or passivated. While the program is active, inside present program is seen such as 1, 2 or 3.

1. Enter setting menu by pressing  button 2-3 seconds.
2. By pressing  or  buttons, enter timer set menu and days of week blinks.
3. With  or  buttons, preferred week day or days can be set. Days of week can be grouped as in the following.
 - All days can be chosen. (SUN. MON. TUES. WED. THUR. FRI. SAT.)
 - Weekdays can be chosen (MON. TUES. WED. THUR. FRI.)

- Weekends can be chosen (SUN. SAT.)
 - Days can be chosen one by one.
4. Press to  button. With  or  buttons preferred setting program 1, 2 or 3 is chosen.
 5. Press to  button, program start time blinks. With  or  program start hour is determined.
 6. Press to  button, program start minute blinks. With  or  program start minute is determined.
 7. Press to  button, program finish hour blinks. With  or  program finish hour is determined.
 8. Press to  button, program finish minute blinks. With  or  program finish minute is determined.
 9. Press to  button, temperature indicator blinks. With  or  chosen program operation temperature is determined.
 10. Press  button,  is seen. Temperature setting indicator blinks. With  or  chosen program preferred DT temperature difference is determined.
 11. Press  button after choosing preferred time program, time programs adjust by starting 3rd clause.
 12. There is no obligation for adjusting all time programs. One or two of them can adjust from time programs.
 13. After programming is finished, when it is pressed to  button or waiting 10 sec without pressing any button, it is existed from setting menu by recording committed adjustments.

6.6 MAKING DEVICE OFF

6.6.1 TEMPORARILY OFF


For short time absence periods, provide the device OFF by pressing  button 2 or 3 seconds. In this way, (by activating electric and fuel supply) device will be protected by following steps.

Freezing Prevention Function: If temperature of water inside device reduces under 5°C , pump and heating will operate for bringing the water temperature to security level (35°C).

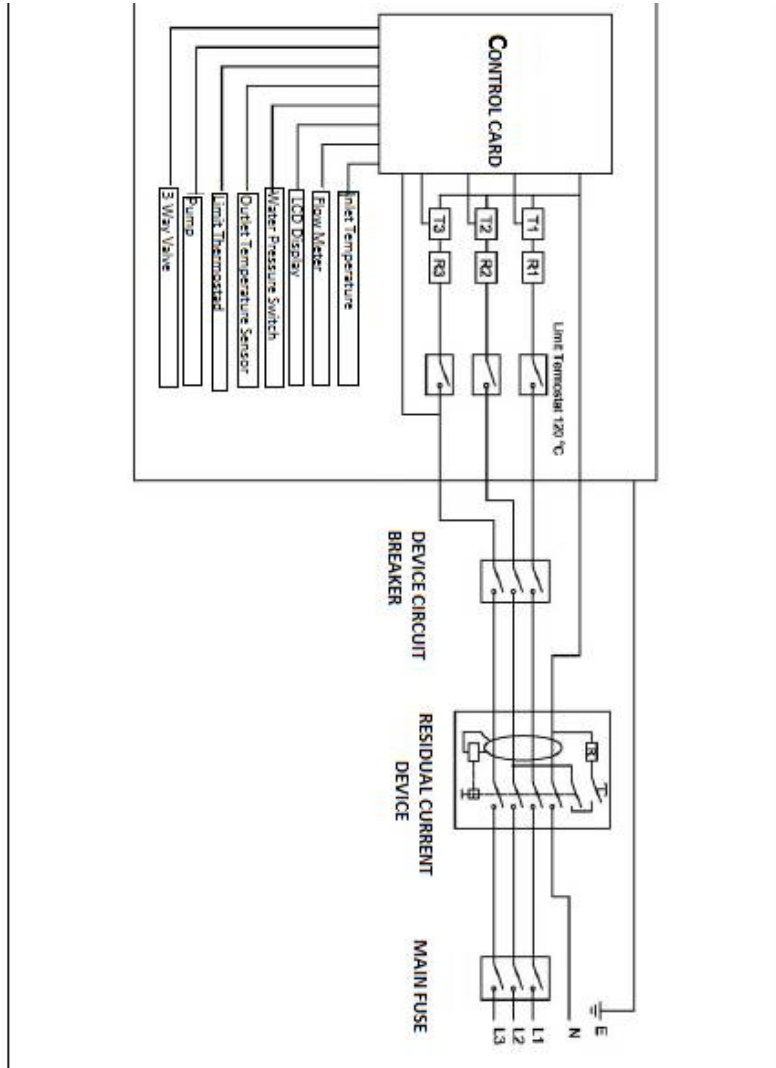
During Anti –frost cycle  is seen at LCD.

Anti – Blockade Function: Pump and 3 way valve inside the device start to operate once every 18 hrs.

6.6.2 LONG PERIOD OFF

If you do not operate the device for a long time, make the circuit breaker OFF after pressing  on 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



8. MAINTENANCE AND SERVICE

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

9. TROUBLESHOOTING DIAGRAM

Damage Code	Damage	Solution
E0	1-Water pressure is not enough 2-Water pressure switch damage	1-Set the water pressure between 1-2 bars. 2- Call authorized service
E1	Heating sensor damage	Although you wait for a while, if you have still seen the same code, call the authorized service.
E3	Warning of water temperature is over 85 °C	1 min later device will start to operate.
E4	Warning of limit thermostat is in circuit	1-When the temperature is down under 85 °C, it is going to start operate. 2- Although you wait for a while, if you have still seen the same code, call the authorized service.
E5	1-Pipe is blocked or valve is closed 2-Pump damage 3-Flowmeter damage	1-Control if it is closed valve or not at heating installation and clean silt trap. 2-Call the authorized service

PROBLEM	No light at control panel	Buttons not operate	Burning smell	Heating Temperature is not enough	Tap Water Not Heat	Water leakage at connections	Reduced water pressure	Water leakage from safety valve	<u>SOLUTION WAYS</u>
REASON									
1-No Electric 2-Residual Current Device or fuse is off 3-Connection Problem of power card and control panel card. 4-LCD card damage	x	x							1-Control if there is electric or not 2-Control residual current device and fuse 3-Call authorized service
1-Not proper connections 2-.Sealing gasket is damaged						x			1-Connections must be made again 2-Sealing gasket must be renew.
Keypad or PCB damage		x							Call the authorized service
1-Unproper cable using 2-Loose connection			x						Turn off the device, call the authorized person
High pressure							x		Discharge excess water from discharge valve
1-Not enough open water valve 2-Flow sensor damage					x				1-Open water valve completely 2- Call the authorized service
1-Heating Element damage 2Limit Thermostat cut off current 3-Triac damage 4- Control card damage				x	x				Call the authorized service
Water Leakage at installation pipe						x			Remove the leakage from heating system installation.
Not enough water pressure					x				Control the water pressure