Daxom

Indoor Water Heater

New generation, Eco-friendly , low NOx emission

Operating And Installation Manual

Comfort and Confidence That Suits to Your Life

TS EN 26 CE

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 referance.

1. SAFETY WARNINGS

- The mounting of the water heater should be made by an authorized person. Please contact with our authorized sales agencies or companies which are authorized by the authorized gas administration (EGO, İGDAŞ, BOTAŞ, İZGAZ,etc). Do not attempt to operate the device by yourself.
- In case of you use LPG gas, do not mount your water heater in places below the ground level.
- Check whether your device conforms to the gas type you will use or not.
- Provide flexible connections in a safe way
- The pipe of heater should not be installed to the places inside building such as air well, closed balconies and etc. Please consult to our company or authorised services about this subject.
- The device operates with 220 V voltage. Ensure the network voltage is 220 V.
- With it's original pipe set, your heater is hermetic heater which has got combustion air from external environment and again discharges gases to external environment that are occurred as a result of combustion. Because of this, it has to be used with original pipe set which is given with the product. Do not definitely connect to building chimneys.
- The life time of the water heater which is determined by department of industry is 10 years.

2. THE FEATURES AND THE CHARATERISTICS OF WATER HEATER

With digital constant water setting function: The water temperature will remain constant in the degree you set.

The fuel efficiency: As your device can operate constant setting water

By the automatic water controlled on/off system: When the water tap is turn on, the water heater will automatically operate and the hot water flow will be provided. When the water valve is turn off, the water flow will stop and water heating will stop.

Function of operating with low pressure water: It does not affect by the low water pressure that occurs in the high apartment flats.

The temperature control adjustment buttons: Provide for users easy to obtain different water temperature that they desire

Function of high pressure safety system When water pressure system is higher than it is necessary, excess water will be discharged by activation of safety valve.

By the high temperature safety system: In case of the water getting hotter than it is needed, the gas will be cut off automatically and the damage of the water heater will be prevented. The flame instability is prevented and the water is cooled after the flame is off with the features of blowing inside the water heater before the ignition (air fan blows air for 2~4 seconds before ignition) and the blowing after service (air fan will go on blowing air for 10 seconds after the water stops and the flame is off).

Function Of Safe and Reliable Design of the Combustion System: Air is taken from outside by the fan for the purpose of providing combustion and discharged exhaust gas to outside again which is occurred after combustion.

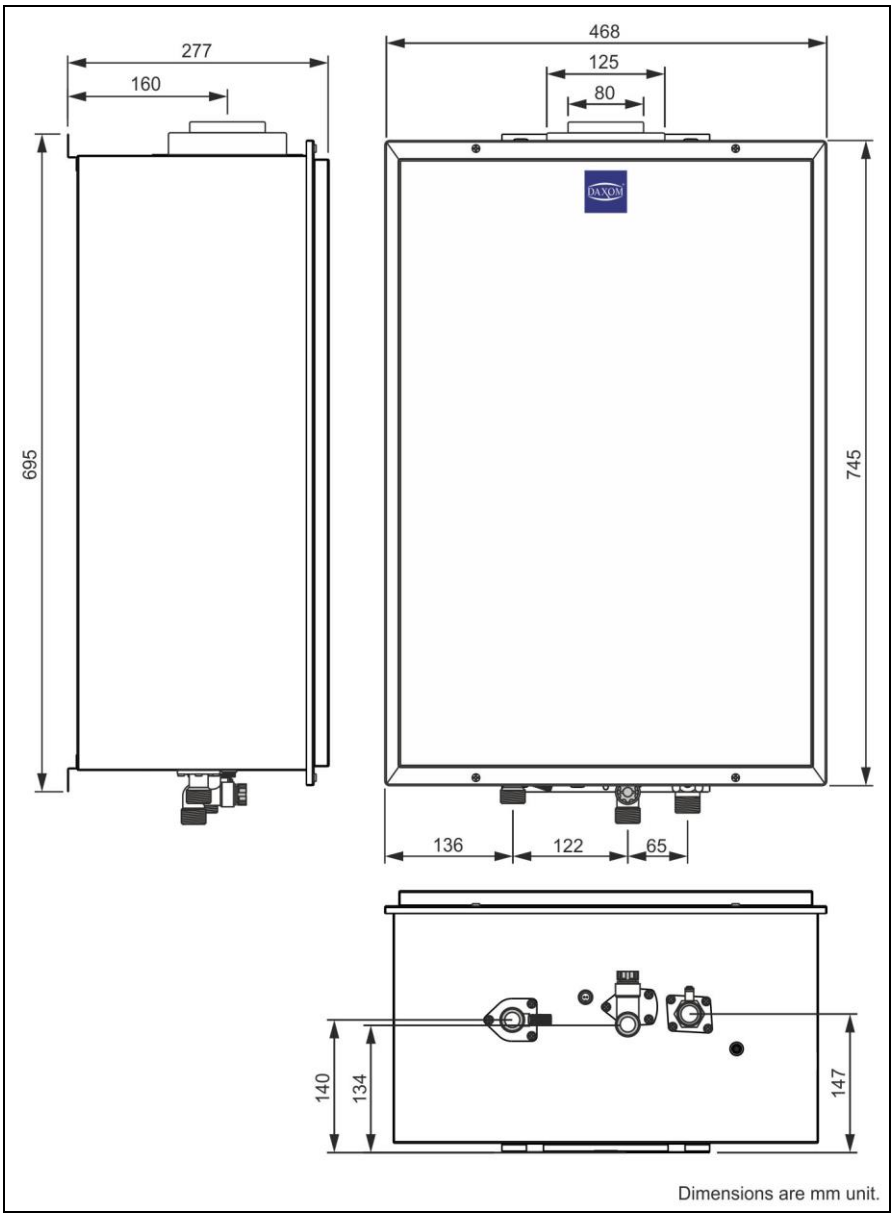
By the system of continuous electronic ignition: 100% success is achieved in ignition.

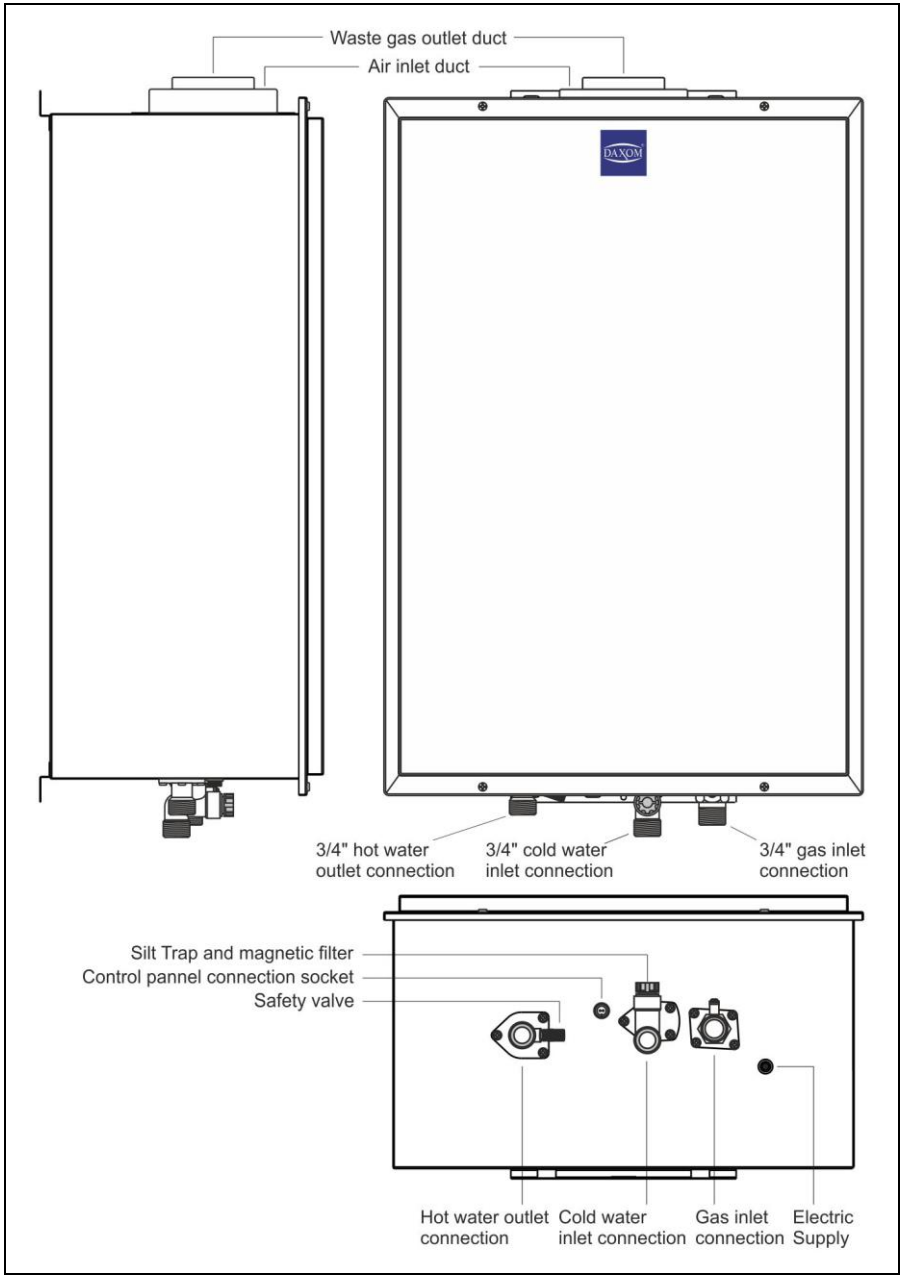
The device is equipped with the multi-purpose safety system. Even if the power is supplied to the water heater again in power failure, fan failure, the blocking of the waste gas pipe or strong reverse wind blowing the gas will be automatically cut and the automatic ignition system will be disabled. In this case the water heater will have to be restarted.

Led display: Provides information about usage. In case of operation, you can see the water flowing, operation of fan, flame formation, water temperature and

warnings. In case of fault condition, it gives information about fault reason with fault code.

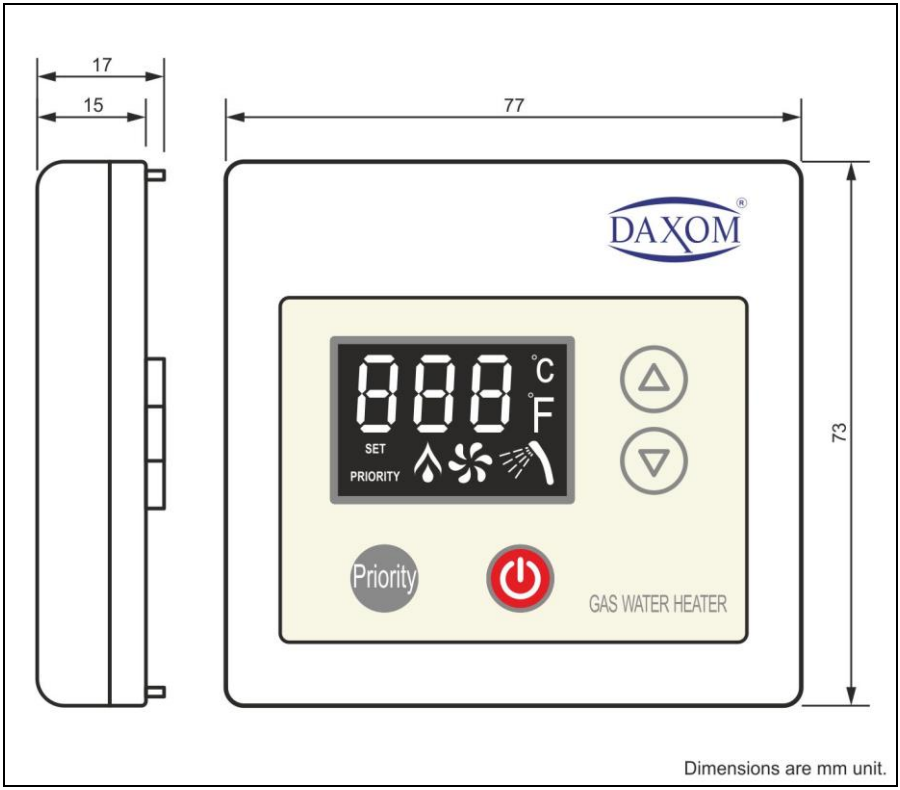
3. THE CONFIGURATION OF WATER HEATER




Waste gas outlet duct
Air inlet duct
3/4" hot water outlet connection
3/4" cold water inlet connection
3/4" gas inlet connection
Silt Trap and magnetic filter
Control pannel connection socket
Safety valve
Hot water outlet connection
Cold water inlet connection
Gas inlet connection
Electric Supply

3.1. Control Panel Configuration

The control panel is not integrated on the water heater and provides remote control opportunity. Maximum of three control panels can be used in the same water heater.



4. TECHNICAL INFORMATIONS

Model		UKDAX-20VT	UKDAX-26VT
Device Type		C13	
Installation Type		Building Indoor Wall	
Gas Category		II2H3 B/P	
Gaz Type		LPG (G30/G31) – NG (G20)	
Gas Pressure		LPG (30 mBar) – NG (20 mBar)	
Nominal Heat Load (Q)		39,65 kW	49,7 kW
Nominal Power (P)		34,88 kW	45,35 kW
Gas Consumption	LPG	3,10 Kg/h	3,89 Kg/h
	NG	4,13 m^3/h	5,18 m^3/h
Operation Pressure	Max.	10 Bar	
	Min.	0,2 Bar	
Water Temperature Setting	Max.	60 ^oC	
	Min.	35 ^oC	
Minimum Water Flow		3 l/min.	
Electric Connections		220 V / 50 Hz	
Power Consumption		50 W	
Gas Inlet		3/4”	
Water Inlet / Outlet		3/4”	
Fresh Air		Ø 125 mm	
Exhaust Gas		Ø 80 mm	
Dimensions (E*B*Y)		468*277*745 mm	
Weight		23,5 Kg	

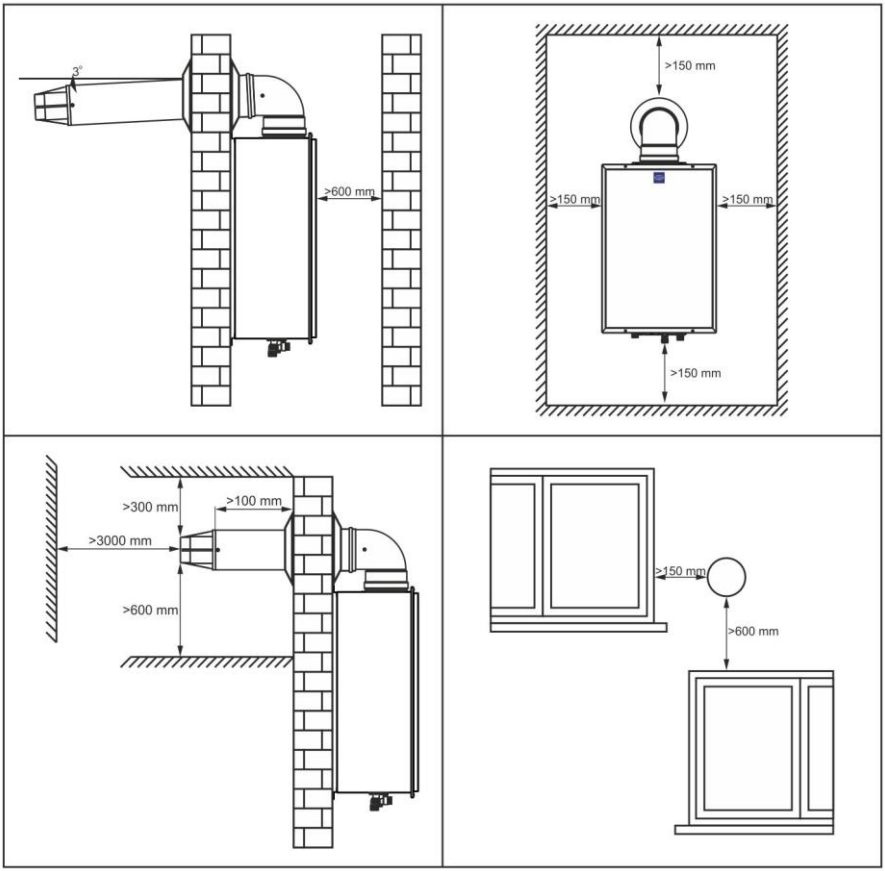
5. INSTALLATION OF WATER HEATER

⚠ The mounting of the water heater should be made by an authorized person. Please contact with our authorized sales agencies or companies which are authorized by the authorized gas administration (EGO, İGDAŞ, BOTAŞ, İZGAZ,etc). Do not attempt to operate the device by yourself.

5.1. Installation Conditions and Safety Warnings

- The waste gas pipe should not be installed in the general chimney or ventilation space of the building. The waste gas pipe should definitely go outside the building. Pipe exit should not be made to passages and corridors, narrow eaves, ventilation and light spaces of buildings, balconies (open or closed), elevator shafts and under protruding structure that prevent waste gas outlet, places that

provide fresh air to other units, and places that may be exposed to direct wind resistance. The open end of the air intake pipe should be at least 100 mm from the wall where it is installed.



- In order to prevent the backflow of the condensed water or the rain water to the heater, the part of the waste gas pipe remaining outside the environment should be placed as to make a horizontal angle of 3 degrees.
- Squall to waste gas pipe may cause device out of function.
- The environment where the water heater is mounted should be free from blocking, preventing parts and projections during the repair and maintenance; there should be sufficient space around the device for repair and maintenance.

- Flammable and explosive substances must definitely be kept away from the water heater, they must not be at the same place.
- After mounting, the hole opened for the waste gas pipe in the wall, should be filled with a substance resistant to burning and it should be isolated.
- Electric connection of the heater must be grounded and 6 amper fuse must have.
- The wall, which your water heater is mounted, should be strong as to carry the weight of the water heater.
- The installation of water heater should not be made on the power supplies

5.2. Wall Installation Of Water Heater

⚠ The wall, which your water heater is mounted, should be strong as to carry the weight of the water heater and installation metarial is fixed safetly.

⚠ Be careful to avoid any accident while installing the water heater.

For installation to suitable place according to above determined conditions;

- Drill at least two holes of appropriate diameter from the bottom and top of the device according to the measurements of the water heater mounting holes
- Fix the appropriate diameter fixing plug to the holes.
- Drill 135 mm waste gas pipe hole to the wall. . (Waste gas pipes are provided with water heater.)
- All drilling must be made before water heater install to wall. Precautions should be taken to prevent wastes entering the water heater that occur during drilling.
- After drilling pipe hole, Screw the water heater from up and down to holes that you drill before. Screw more than point that is necessary.
- Screw more than point when it is necessary**.**

5.2.1. Waste Gas Pipe Installation

⚠ Qualifiable pipe must be used for this device.

⚠ The gas flue pipe should be placed at an angle of 3 degrees with the horizontal, with its end inclined downwards.

- Place the fresh air / discharge gas pipe as open side will be outside to hole which is drilled before for the exhaust.
- Install the bracket part as installing one edge is to heater pipe another edge is to discharge pipe.

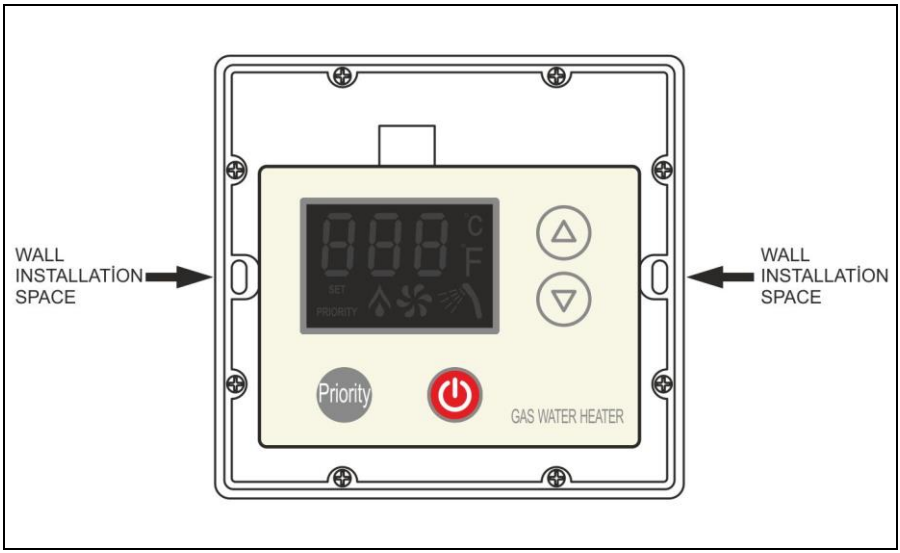
5.3. Installation Of Control Pannel and Connection Of Heater

⚠ Do not supply electric to water heater before connecton of control pannel.

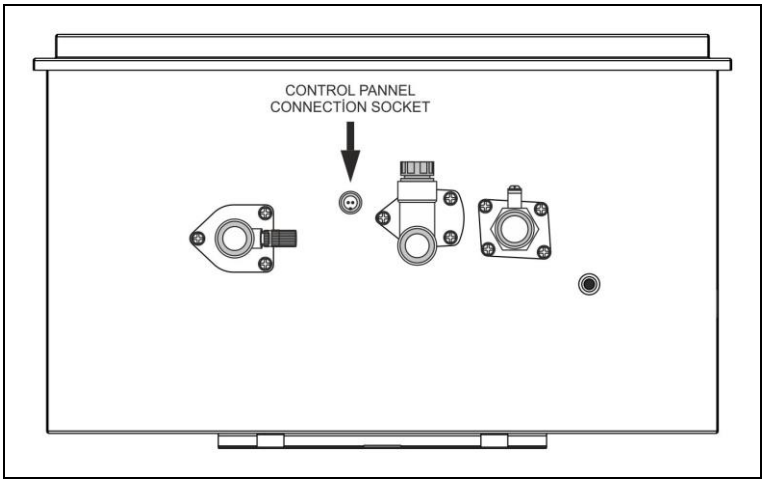
⚠ Children's access to the remote control should be prevented.

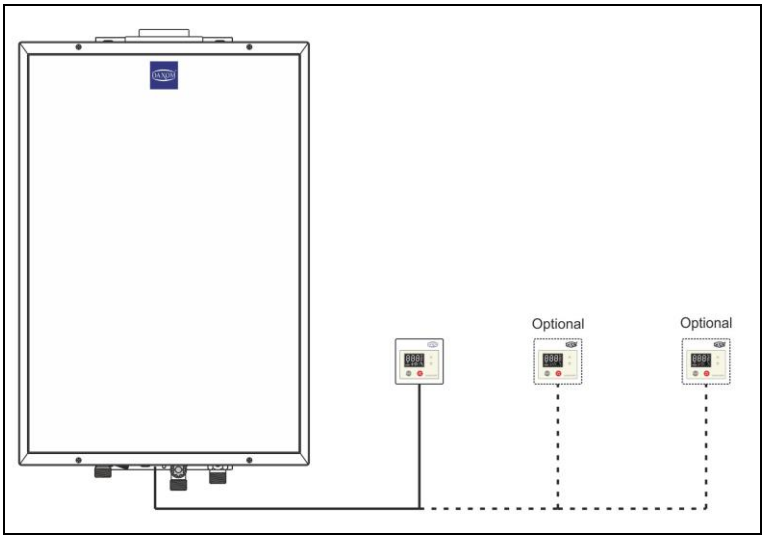
⚠ The installation of control pannel must not be done near heat sources and humid places.

- After separating the top cover of the remote control from the control base with a screwdriver, fix the control base with screws from the mounting holes on the wall in the desired area.



- Connect the connector to the cable that will provide the connection between the water heater and the control panel and place it in its place on the control panel.
- Complete the connection by fixing the other edge of the cable to the connection point under the water heater.
- Maximum 3 control panels can be connected to the water heater. Control panels must be connected parallel to each other.





5.4. Installation Of Water And Gas Connections

- There must be valve at the watersupply which will be connected to water inlet of the water heater.
- Installation of silt trap after valve is recommended for water installations which has probability of entering dirt inside of water heater from watersupply.

- Connect the cold water inlet of water heater the cold water mains line, and the hot water outlet to the hot water line with a 3/4" flexible pipe. For preventing water leakage of connections, seals must be used.
- Do not never use liquid seal for water line connections.
- Valve with TSE and flexible pipe must be used for the gas connection.
- Definitely teflon and liquid seal must not be used for gas line connections.

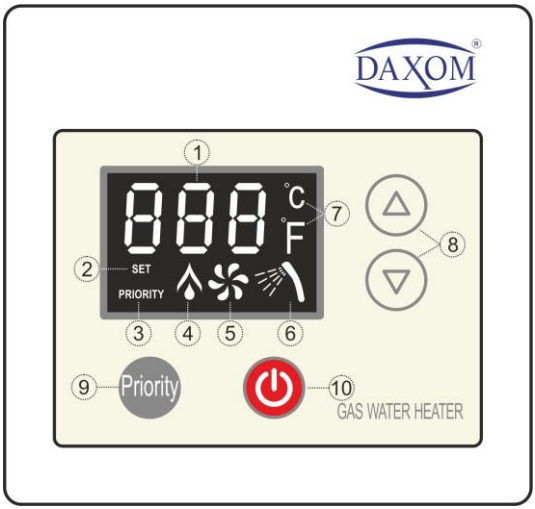
5.5. Electric Connection

- The electrical installation must be done by qualified personnel with suitable cable section.
- There must be a fuse with a suitable specification and6 amperes value that can completely cut off the electricity of the device.
- The fuse should be close to the device and at a distance where the cable coming out of the device can be connected without tight.
- The fuse must be at least 10 cm above from the bottom level of the device.
- The grounding of device must definetely be done.
- Kabloların sigortalara bağlantısı Yetkili Servis tarafından yapılmalıdır.

⚠ Connection of cables to fuses must be done by Authorized Service.

⚠ Loose cable connections can cause accidents.

6. WATER HEATER USAGE



1	Water temperature and failure codes can be seen at LED display
2	Target (set) water temperature value
3	Control pannel priority indicator
4	Burner operation (combustion) indicator
5	Fan operation indicator
6	Water Flow Indicator
7	Temperature Unit Indicator
8	Temperature Setting Buttons
9	Priority assignment button.
10	On / Off Button

6.1. Water Heater Operation And Setting

⚠ The activation of the water heater should be done by the Authorized Service. For this, please contact the authorized service in your region.

⚠ Conrol if the gas, electricity and water properties are same values specified in this manual and on the label on the device.

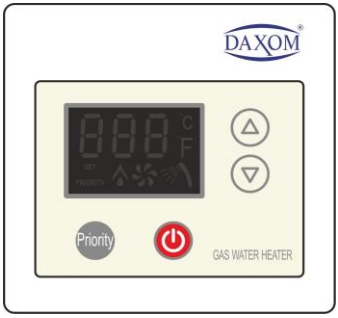
⚠ Do not supply electric to water heater before connecton of control pannel.

⚠ Make sure that all connections of the device are correct and complete.

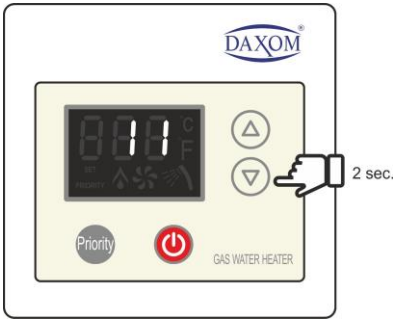
6.1.1. Control Pannel Matching

Control pannel must be match with water heater. For this;

- Open the fuse which water heater is connected.



➢ Keep press ▽ button 2 sec “11” code will be seen at the display..



➢ By pressing ⏻ button, it can be exit by confirming matching.



➢ Even not pressed ⏻ button, matching will automatically confirmed after a while. Repeat the above steps for more remote control panel matchings. "12" and "13" codes will be given for other control panels.





6.1.2. Operation Of Water Heater

Follow following steps for operate of your heater.

- Turn On the water inlet valve of water heater
- Open fuse of water heater
- Open gas inlet valve of water heater.
- Activate the heater by pressing button. Display lights will be ON and previous setting temperature will be seen.
- Open the hot water tap. At the display of the heater it is respectively seen water flow sign, fan operation sign and in a few min water heating start sign will be seen and your water heater starts to heat water. Hot water flow time show a change according to distance between water heater and tap.

6.1.3. Water Temperature Changing

While water heater is operating or while at standby mode, water temperature can be change with and buttons between 35 ºC and 65 ºC. According to temperature valueeach pressing incerasing value will show dfferences.

Temperature Range	Increasing / Decreasing	Setting Situation
35-48°C	1°C	With or buttons while operation or stanby mode it can be set.
48-50°C	2°C	With veya only while standby mode can be set
50-60°C	5°C	With veya only while standby mode can be set

6.1.4. Control Panel Priority Assignment

The water heater can work with more than one control panel. Because of this, it provides the opportunity to use it from different places according to the need. When more than one control panel is connected to the water heater, which panel will control the water heater must be determined by

priority assignment. The control panel that has not been assigned a priority cannot change the settings of the water heater. To assign the priority, the 

button on the control panel is pressed. “PRIORITY” warning appears on the screen.

6.2. Turn Off Heater

6.2.1. Temporary Off

Shor term OFF of the device can be provided by pressing  button. By leaving the electricity supply active, you can ensure that freezing prevention function continues to protect the water heater. If the water temperature in the device decrease uneder 5°C, the freezing prevention system will activate and prevent the water heater from freezing.

⚠ In order for the frost protection system to activate, the electricity supply must be ON

6.2.2. Long Term Turn Off

If the device will not be operated for along time, turn off the device fuse and gas inlet valve after pressing the  button. In this case, completely empty the water inside the water heater against the risk of freezing, as the frost protection will not work. To operate the water heater again, follow the steps in 6.1.2.

6.3. The Precautions to be Taken

- Make sure the used gas type is the same with the one stated in the brand plate. The use of inappropriate type of gas may lead to accident.
- Repairing or having the water heater repaired without authorization is dangerous and may cause accidents. Our company does not accept any responsibility for the interventions made by unauthorized persons.
- Be sure that there is sufficient space around heater.
- Always take precautions against possible gas leakage and when the gas smell is encountered, shut the gas valves off urgently. Ventilate the environment by opening the door and the windows. Never make a phone call inside the room, do not turn the lights on and off, do not plug anything to the electric plugs or unplug

anything before the gas leaves out completely. Do not forget that any flame or a spark that may occur in such a case, will lead to fire or explosion.

- Pipe and connection pipes must be controlled regularly. If it is suspected that there is gas leakage because of pipes apply to necessary gas distributor
- If it is suspected that there is leakage except from pipe and connection pipes, must be consulted to our service department.
- Old or cracked pipes must be changed urgently by controlling gas pipes regularly.
- If it is heard abnormal combustion voice from water heater, stop using water heater then consult to service department.
- In the first contact with hot water, check the temperature of the water before touching the body.

6.4. For The Safe Use

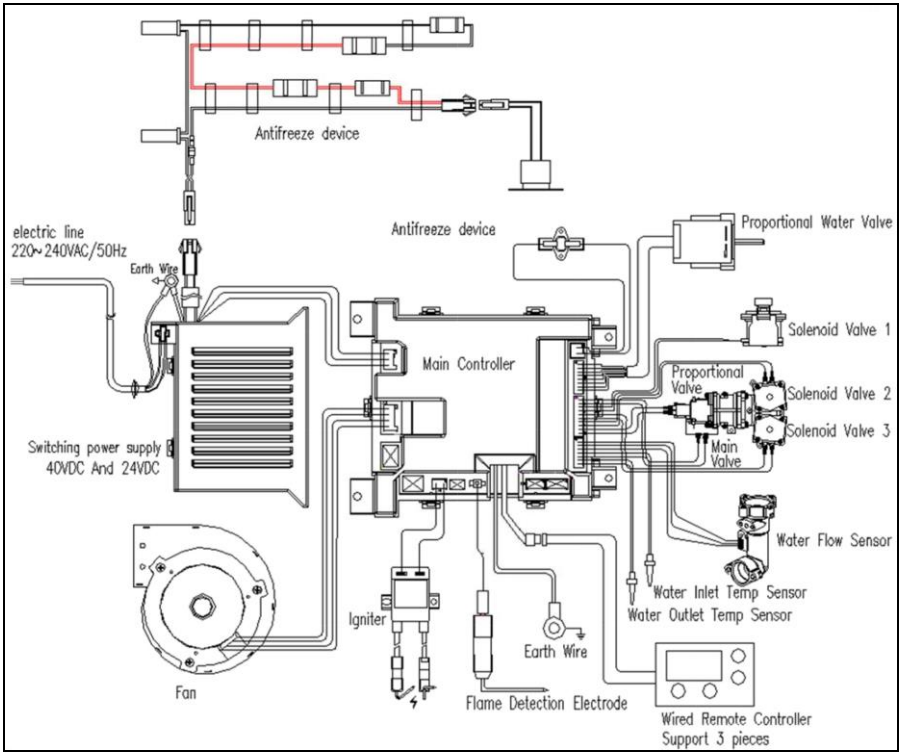
- Check the newly mounted water heater carefully and make sure that it operates correctly before using.
- Do not drink the water passing inside the water heater
- Take precautions for not blocking of heat exchanger because of specification of water such as (hard water). Blocking of water heater exchanger is out of warranty.
- If your pressure of installation is high, because of water quantity passing from water heater will be more, noise can occur at device and your installation can be damage. In such cases, absolutely you need to install pressure reduce valve to device inlet.
- If necessary precautions are not taken, situations which ambient temperature deduct under the 0 degree, water inside heater can give damage to your heater by freezing. It is possible to prevent this situation by doing following information.
  - With freezing prevention of your water even device inside temperature reduce under “0” degree, it can be prevented freezing of water which is inside the device. When ambient temperature decreases specific value, your water heater will heat water by automatically operating in short period and will prevent freezing. In the meantime, “AF” warning will be seen. For the operation of this system, gas and electricity must not be cut off and the light of

LED display must be ON. In other words, be sure that the device is at operating state.

- Although the device has a freezing prevention system, the freezing prevention system will not operate in case of short period electric or gas cut off time in very cold and windy weather. The water inside the device should be discharged as a precaution.

- Never touch the waste gas pipe during using and after a short time of using (against skin burns)
- In case of failure of your water heater, do not panic and stop using the heater. Disconnect the gas and the electricity. Consult the service department or an authorized technician. Dirty water passing inside the water heater may negatively affect your device. To prevent this, a water filter must be absolutely installed to water inlet.
- Never leave electric supply and gas of water heater “ON” position when you leave the home.
- Never keep inflammable, explosive materials and objects near water heater.

7. ELECTRICAL DIAGRAM



8. REPAIR AND SERVICE

We have been providing service free of charge during the warranty period of the device for relevant parts and manufacturing defect. When you have a problem during using please contact our after sales service department. The unauthorized repair and the maintenance of the device will void its warranty cover. Our company will not be liable for the failures and the accidents that might occur later.

9. TROUBLE SHOOTING

⚠ Removing fault warning by resetting water heater must be pressed to  button.

Error Code	Cause	Solution
01	➢ Inlet Water NTC Error	➢ Call authorised service
10	➢ Ignition Error ➢ No Flame	➢ Control if device has got gas or not ➢ Control Ignition electrode ➢ Control sensing electrode
11		
12		
13	➢ Water Temperature is over 95 °C	➢ Control Water Flow
32	➢ Blocking of pipe duct	➢ Remove blocking and dirts at pipe duct
40	➢ Fan operation error	➢ Call authorised service
50	➢ Outlet water is 85 °C and over 85 °C	➢ Control inlet and outlet temperatures
51		➢ Call Authorised Service
60	➢ Outlet Water Temperature Error	➢ Call Authorised Service
70	➢ Wrong Setting Protection	➢ Control the device capacity, the type of gas used and the water heater settings.

PROBLEM / CAUSE	No Light on control pannel	No ignition at the device aft valve is opened	Ignition with explosion	Smell	Abnormal ignition sound	Cold Water at Low Temperature	Flame does not go out although water valve is of	No constant hot water	SOLUTION WAYS
No energy	●								Check the electricity fuse
Gas valve is not ON		●							Open gas valve or make gas loading
Gaz valve semi ON		●	●						Open gas valve completely
Ait at gas pipe		●							Turn on / Turn off until combustion occurs
Water temperature is not constant								●	Contact with installation company
Abnormal pressure		●	●		●				Call Authorised Services
Water valve is not turn on enough		●							Turn On water valve completely
Insufficient fresh air			●		●				Control device pipe
Windy weather			●		●				Do not use it until the wind passes
Freezing water		●							Use again after melting
In sufficient water pressure		●							Control water pressure
Power supply or device is not turn on		●							Turn On power supply
Burner Blockage					●				Call Authorised Services
Heatexchanger block		●						●	Call Authorised Services
Gas Valve Error							●		Call Authorised Services
Led Error	●								Call Authorised Services
Water Control Valve Error						●	●	●	Call Authorised Services
Ignition pin not proper Position					●				Call authorized service
Leakage in gas pipe or original pipe				●					Turn off main valve call the authorized service
Too many elbow installed			●		●				Choose appropriate mounting area

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