



Electric Combi Boiler User Manual



ÜNLÜSOY

Isıtma Sistemleri Sanayi ve Ticaret A.Ş.

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ÜEK ASI ve ÜEK ISI

This booklet covers:
9-12-18-24-30-36-45

INTRODUCTION



Cihazınızın kurulum, bakım ve servis hizmetleri uzman teknik ekip gerektirmektedir.

We would like to thank you for your choice of UNMAK brand, electric hot water combination boilers (electric boilers).

Please read the user manual carefully before installing and operating your product and keep the user manual for the duration of the product use. Do not touch or mix any part of the product except where permitted in the user manual.

The installation, maintenance and service of your device requires a specialized technical team.

These operating instructions and regulations must be observed in order to install the device, to select the location for installation, and to install the appliance.

Produced in different capacities from 9 kW to 36 kW, the heating elements on the Electric Combi boilers are arranged in sequence and each of them is activated gradually. Our combi boiler is designed for room thermostat use in order to benefit from energy savings. It is useful to use room thermostat for the lowest electricity consumption. Our electric boiler is an environmentally friendly device with small volume and high efficiency.

In our boilers with instant water heater, hot water supply has been provided with the application of plate heat exchanger and three-way valve system for the need of domestic hot water.

A leakage current relay is used in the electric boiler package, electrical installation, against electrical leakage. In case of any water leakage on the boiler and in case of electric leakage for any reason to the body, the combi is automatically deactivated by the leakage current relay.

The electric boiler water temperature is set on the electronic board according to the maximum 85 ° C. If the temperature increases as a result of any card failure, the safety thermostat on the electric combi boiler will cut off the system and stop the system in the range of 93 ° C - 95 ° C. There is also a 3 bar pressure sensor on the boiler. The mechanical safety valve is used as the second additional safety measure. This valve will protect the system by pushing out the excess water in the system due to overheating in the boiler or due to an excessive pressure in the first filling. It is appropriate to connect the hose coming out of the safety valve to any drain line.

The water level circuit is used in the boiler body in order to prevent water resistance of the heating elements on the boiler body. Control of waterless operation is done by electronic card. If the water level in the installation falls below the level of the sensor (mechanical pressure error), the boiler will be automatically

deactivated. In this case, after the installation water temperature is reduced below 40 ° C, the boiler will start working again by adding 1.5 bar water to the installation.

During the first start-up and operation of the boiler, air may be generated at certain intervals. Automatic air separator is used at the top of the boiler in order to dispose of the generated air automatically.

With the closed expansion tank on the boiler, it is ensured that the installation works safely in a certain pressure range.

During the installation phase of the boiler you need to install electrical installations according to the recommended cable cross-sections. Cable sections and fuse amps are provided in the technical data sheet. On the main cable coming out from under the boiler body (Yellow-Green) the ground line is left. Be sure to connect the ground line.

The boiler is programmed to operate every 24 hours (Calcification, air etc.) even if the boiler is left in the combi-off position as long as there is a power supply.

UNMAK Electric combi boilers are hot water boilers with high efficiency and are designed to work only with electricity.

These devices are only used for heating of the heating system, not for use in direct water heating. The domestic hot water will only be as much as the amount of equipment supplied in the appliance. The energy required for domestic water will be taken from the energy of the device.

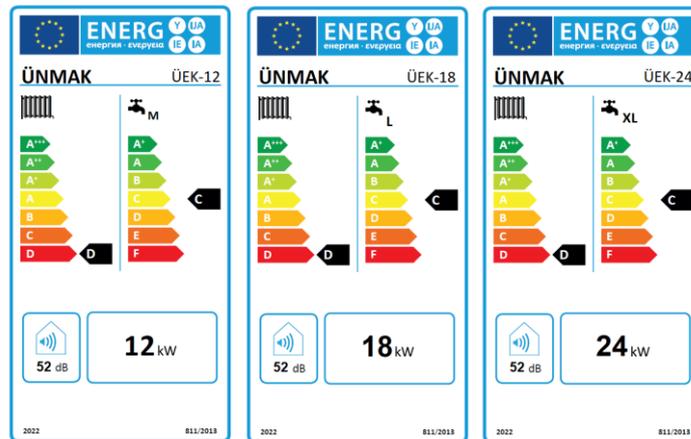
	This product is intended for domestic use only. It is not suitable for industrial use.
	This product must be connected to electricity via ground line and residual current circuit breaker!
	Your user manual should be read carefully and kept, together with the attached warranty certificate, for the lifetime of the device.

CONFORMITY DECLARATION

	
<h3>UYGUNLUK BEYANI</h3> <h3>DECLARATION of CONFORMITY</h3>	
Üretici/İthalatçı <i>Manufacturer/Importer</i>	ÜNLÜSOY ISITMA SİSTEMLERİ SANAYİ VE TİCARET A.Ş.
Adres <i>Address</i>	İzmir Pancar Organize Sanayi Bölgesi, 10. Cadde No:2 Torbalı, İzmir/TÜRKİYE
<p>Bu beyanın ilgili olduğu aşağıdaki ekipmanın temel sağlık ve güvenlik gerekliliklerini karşıladığını ve geçerli AT standartları ile diğer normatif belgelerin ilgili bölümlerine uygun olduğunu ve buna göre CE işaretini taşıdığını beyan ederiz.</p> <p>Bu uygunluk beyanı kapsamındaki üründe değişiklik yapılırsa, uygunluk beyanı geçerliliğini yitirir. Bu uygunluk beyanı, tamamen üreticinin sorumluluğunda yayınlanmıştır.</p>	
<p><i>We declare under sole responsibility that the following equipment, to which this declaration relates, meets the essential health and safety requirements, is in conformity with the relevant section of the applicable EC standards and other normative documents, and carries the CE marking accordingly. If changes are made to the product that is covered by this declaration of conformity, the declaration of conformity is no longer valid.</i></p> <p><i>This declaration of conformity is issued under the sole responsibility of the manufacturer.</i></p>	
Ürün Tanımı <i>Description of the Product</i>	Elektirikli Kombi Electric Combi Boiler
Ürün Adı <i>Product Name</i>	ÜNMAK ÜEK
Onaylanmış Kuruluş <i>Notified Body</i>	ECES Uluslararası Sertifikasyon Muayene Laboratuvar Eğt. Hiz. San. Ve Tic. Ltd. Şti. İmbatlı Mah. Anadolu Cad. No:340/38 Karşıyaka/İzmir/TÜRKİYE
Model Numarası <i>Model Number</i>	ÜEK-12, ÜEK-18 ve ÜEK-24
Direktif ve Düzenlemeler <i>Directive & Regulations</i>	<p>Bu uygunluk beyanı sayesinde, ürünün Avrupa Toplulukları Konseyi Direktifleri ve listelenen diğer yönetmeliklerin hükümlerine uygun olduğu kabul edilir.</p> <p><i>By virtue of this declaration of conformity, the product is deemed to comply with the provisions of the Council of European Communities Directives and other regulations listed.</i></p>
	<ol style="list-style-type: none"> Makina Emniyet Yönetmeliği (2006/42/AT) <i>Machinery Safety Directive 2006/42/EC</i> Belirli Gerilim Sınırları İçin Tasarlanan Elektrikli Ekipman İle İlgili Yönetmelik (2014/35/AB) <i>Low Voltage Directive (LVD) 2014/35/EU</i> Mahal Isıtıcıları, Kombine Isıtıcılar, Mahal Isıtıcısı, Sıcaklık Kontrolü ve Güneş Enerjisi Cihazı Paketleri ve Kombine Isıtıcı, Sıcaklık Kontrolü ve Güneş Enerjisi Cihazı Paketlerinin Enerji Etiketlemesine Dair Tebliğ (SGM:2018/1) <i>Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device</i> Mahal Isıtıcılar ve Kombine Isıtıcılar ile İlgili Çevreye Duyarlı Tasarım Gerekliliklerine Dair Tebliğ (SGM:2018/3) <i>Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters</i>
Standartlar <i>Standards</i>	EN 60204:2018, EN 12100:2010, EN IEC 60335-1:2023, EN IEC 60335-2-51:2023
Yer ve Zaman <i>Place and Date</i>	İzmir/TÜRKİYE, 11.04.2025
Üretici adına imzalamaya yetkili kişinin adı ve imzası <i>Name & Signature of the person empowered to sign on behalf of the manufacturer</i>	<p>Mahmut ÜNLÜSOY, C.F.O.</p> <p></p> <p>ÜNÜSOY ISITMA SİSTEMLERİ SANAYİ VE TİC. A.Ş. Organize Sanayi Bölgesi Mahallesi POBŞ 066 10. Cadde No:2 Torbalı/İZMİR Mersis No: 00700007500000000000 Davraz V.D. S. 06507476</p>
<p>Sayfa Page 1 / 1</p> <p>Doküman No\Document No: UB-09; Yayın Tarihi\Release Date: 11.01.2022, Rev. No/Tarihi\Rev. No/Date: 03/11.04.2025</p>	

PRODUCT DATA SHEET AND ENERGY LABELS**PRODUCT INFORMATION FORM**

UNMAK brand, ÜEK model			12	18	24
Condensing Boiler			No	No	No
Low Temperature Boiler			No	No	No
Combi Boiler			Yes	Yes	Yes
Nominal Boiler Power	P_{rated}	kW	12	18	24
Seasonal Place Heating	η_s	%	44,0	44,9	53,2
Energy Efficiency Class			D	D	D
Available Heating Capacity					
Nominal Heating Power	P_{rated}	kW	12	18	24
At Nominal Heating Power and Higher Temperature	P4	kW	11,8	17,9	23,8
30% At Nominal Heating Power and Higher Temperature	P1	kW	4,7	5,7	8,2
Auxiliary Energy Consumption					
Auxiliary Energy Consumption at Full load	e_{lmax}	kW	0	0	0
Auxiliary Energy Consumption at Partial Load	e_{lmin}	kW	0	0	0
Electricity Consumption: Stand-by Position	PSB	kW	0,002	0,003	0,003
Room Heating Efficiency					
Seasonal Space Heating Energy Efficiency Class			D	D	D
Seasonal Space Heating Energy Efficiency	η_s	%	44,0	44,9	53,2
Nominal Thermal Power and High Temperature Operation	η_4	%	98,7	99,7	99,5
30% of nominal thermal power and low temperature operation	η_1	%	37,9	38,7	48,6
Additional Information for Hot Water Heating Devices					
Hot Water Preparation: Determined Load Profile			M	L	XL
Hot Water Preparation: Energy Efficiency Class			C	C	C
Water Heating Energy Efficiency	η_{wh}	%	36,2	49,7	52,4
Daily Fuel Consumption	Q_{fuel}	kWh	0	0	0
Annual Fuel Consumption	AFC	Gj	1	2	3
Other Information					
Heat Loss: Ready State	P_{stby}	kWh	0,247	0,249	0,253
Ignition Burner Power Consumption	P_{ign}	kWh	0	0	0
Daily Energy Consumption	Q_{elec}	kWh	5,885	8,254	12,016
Annual Energy Consumption	AEC	kWh	1292	1813	2639
Sound Power Level	L_{WA}	dB(A)	52	52	52
Nitrogen Oxide Release	NOx	mg/kWh	0	0	0
Manufacturer: ÜNLÜSOY ISITMA SİSTEMLERİ SANAYİ VE TİCARET A.Ş.					
Manufacturing Address: Pancar Organize Sanayi Bölgesi, 10. Cadde No:2, Torbalı/İZMİR – TÜRKİYE					



TRANSPORT AND SHIPPING

ÜNMAK electric combi boilers are manufactured from thick, welded sheet metal. The devices are packaged as a single unit. The device is shipped in a cardboard box with mounting brackets and mounting hardware. The box also includes 1 panel power fuse, 1 residual current device, 2 ½" klingrit gaskets for domestic hot water supply and return lines, 2 ¾" klingrit gaskets for plumbing supply and return lines, and 3 8mm self-tapping screws and dowels.

Safe transportation of the product

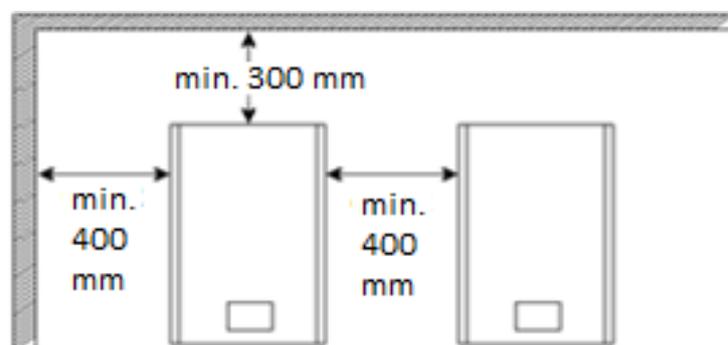
Care should be taken when transporting the electric boiler to the installation location. Therefore, it should be transported by two people or with a suitable transport vehicle.



INSTALLATION LOCATION SELECTION

Since electric combi boilers do not require a chimney for installation, they can be installed in electrically suitable locations. The minimum dimensions to be observed during installation are given in the adjacent diagram. If more than one combi boiler is connected, the room where the boiler is installed must have sufficient free space for installation and maintenance. There must be enough distance from the ceiling for the heating elements to be easily accessible for servicing. If only one combi boiler is used, it must be at least 40 cm from the wall and at least 30 cm from the ceiling. For the installation of two combi boilers side-by-side, the previous rule applies, and in addition, the distance between the two combi boilers must be at least 40 cm.

The floor or wall where the boiler will be installed must be flat and strong enough to support the appliance. It should be mounted on a solid and stable wall, avoiding any gaps in brickwork. The inlet and outlet pipes should be connected to the boiler's bottom fittings as shown in the boiler connection diagram, ensuring there are no water leaks. The electrical connection should be made as shown in the boiler connection diagram, connecting the phase and neutral inputs to the fuse and neutral terminal on the boiler. The phase and neutral inputs must be tightened very firmly; they should not be left loose. Boiler and electrical connections must be performed by qualified technicians. A safety fuse must be installed within 50 cm of the boiler.



There should be no faulty or unsafe electrical lines near the boiler.

SAFETY WARNINGS

The electrical installation of this product must be carried out by authorized personnel in accordance with the instructions in this manual and applicable local or national regulations.



THIS PRODUCT MUST BE CONNECTED TO ELECTRICITY VIA GROUNDING!



THIS PRODUCT MUST BE CONNECTED TO THE ELECTRICITY SUPPLY WITH A LEAKAGE CURRENT RELAY!

The combi boiler must be connected to an electrical installation that complies with the specifications stated in the user manual and relevant regulations.

The electrical source to which the combi boiler is connected must have sufficient capacity to power the boiler. To protect the appliance, a fuse independent of the appliance, proportional to the appliance's current (found in TABLE I below), must be connected to the electrical supply line. The appliance must be connected to its own independent electrical line; it should not be connected to lighting, doorbell, or oven lines.

The protective grounding line must be connected to the exposed metal parts of other devices at the installation site and to the grounding line on which the device is mounted, in accordance with local and national regulations. To obtain maximum efficiency from the device, the shortest possible cable distance should be used between the fuse box and the device. Cable length is also important in terms of circuit breaking time and temperature limitations. There is a maximum allowable cable length limit in a line combination created in terms of current requirement, voltage drop, and cable cross-section. If the cables are surrounded by thermal insulation, routed inside a wall, passed through an area with a temperature above 30°C, or twisted together, the amount of current flowing through the cable is reduced. To maintain the same current values, a larger cable cross-section must be selected.

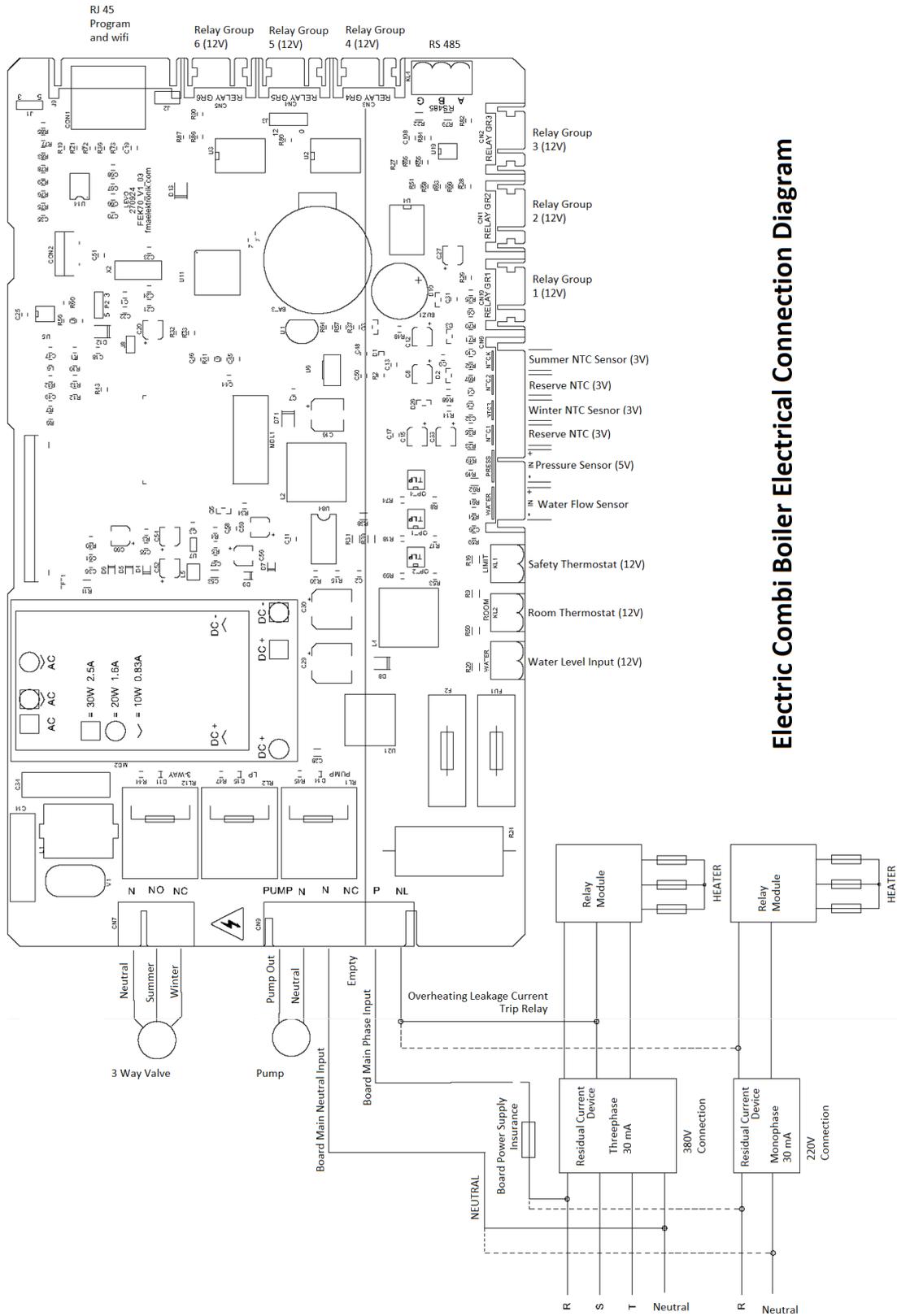


THIS PRODUCT MUST BE PROPERLY CONNECTED TO A SECURE GROUND LINE!



The device should not be installed in enclosed or living areas.

ELECTRICAL INSTALLATION INSTRUCTIONS



Electric Combi Boiler Electrical Connection Diagram

COMBI BOILER SPECIFICATIONS

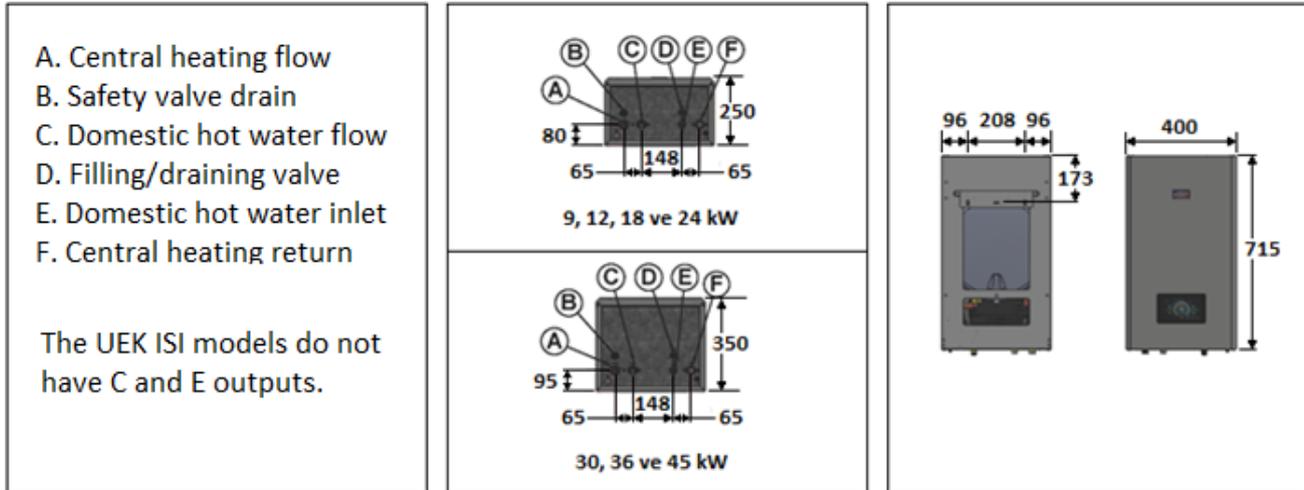


TABLE I: Table of copper cable cross-section and fuse rating according to boiler power.

MODEL	POWER		A	C	D	E	F	CABLE CROSS-SECTION AREA	FUSE CONNECTION (A)	CONNECTION VOLTAGE (V)
	kW	kcal/h								
ÜEK ISI 9	9	7.740	¾"	½"	½"	½"	¾"	3x10	63	230V Mono phase
ÜEK ASI 12 ÜEK ISI 12	12	10.320	¾"	½"	½"	½"	¾"	3x10 5x6	63 25	230V Mono phase 400V Three phase
ÜEK ASI 18 ÜEK ISI 18	18	15.480	¾"	½"	½"	½"	¾"	5x6	40	400V Three phase
ÜEK ASI 24 ÜEK ISI 24	24	20.640	¾"	½"	½"	½"	¾"	5x6	40	400V Three phase
ÜEK ASI 30 ÜEK ISI 30	30	25.800	¾"	½"	½"	½"	¾"	5x10	63	400V Three phase
ÜEK ASI 36 ÜEK ISI 36	36	30.960	¾"	½"	½"	½"	¾"	5x10	63	400V Three phase
ÜEK ASI 45 ÜEK ISI 45	45	38.700	¾"	½"	½"	½"	¾"	5x16	80	400V Three phase

* We reserve the right to make changes to the dimensions.

* Cable cross-sections are calculated based on copper cable up to 15 meters.

* Since ISI models only have heating modules, dimensions C and E should not be considered.

WARNINGS

Warning Against Corrosion in the Heating System:

UNMAK electric combi boilers are extremely resistant to rust and therefore corrosion. However, all iron-based components in the heating system (including pipes and radiators) must be protected against corrosion. Oxygen in the system water causes oxidation on iron surfaces, leading to rust and consequently material loss. During the initial filling of the system, accumulated air must be removed. Generally, if the necessary precautions are taken after the initial filling, damage caused by oxygen in the water does not occur. Oxidation occurs mostly due to oxygen mixing with the heating water during operation.

Leaks in the system cause the addition of oxygen to the heating water. Therefore, in a closed expansion tank system, the minimum water pressure must be higher than atmospheric pressure, and the operating pressure must be checked periodically.

Frost Protection Warning:

The heating system must be completely insulated. The parts of the system exposed to the outside environment should be more insulated than the inside parts.

Points to Consider in New Installations:

The system design and sizing must be done correctly to minimize fresh water addition. None of the materials used in the system should be gas permeable. A synthetic or metal porous filter with a maximum of 50 microns should be placed on the fresh water addition line. In closed expansion tank systems, the pressure throughout the system must be above atmospheric pressure. Soft water must be used, especially in areas with high lime content in the water, to extend the efficiency and lifespan of the boiler.

Points to Consider for Radiators Connected to Old Installations:

In a heating system that has been used for a long time, a protective layer (black magnetite) forms on the metal surfaces in contact with water, protecting against corrosion. When a new device is installed in an old system, the clean surfaces of the device will be the first place where corrosion will begin. Therefore, when a new appliance is connected to an old heating system, in addition to the precautions required for new systems, the following points should also be considered:

1. The old system must be thoroughly cleaned of dirt and sediment before connecting the device.
2. A manually operated air separator should be installed at the highest point of the system.



Before installing new appliances in an old heating system, the system needs to be flushed with water several times.

TOUCHSCREEN AND USER INTERFACE



Buttons and Descriptions

ON/OFF button		It is used to turn the device on and off.
Timer On/Off		It is used to activate the device's timer or to remove it from the stream.
Summer On/Off		This is used to operate the device in summer mode. When the button is pressed, it switches the three-way valve to the summer position. When the tap is opened, it starts heating by gradually activating the heaters. During operation, heating is done according to the "summer mode temperature set value".
Winter On/Off		This is used to operate the device in winter mode. When the button is pressed, it switches the three-way valve to the winter position. It starts heating by gradually activating the heaters. During operation, heating is done according to the "winter mode temperature set value".
DHW Water Temperature Setting		The desired heating temperature for hot water is entered using these buttons. Use the up/down buttons to enter the desired temperature. (The device will automatically confirm the set temperature).
CH Water Temperature Setting		The desired heating temperature for radiators is entered using these buttons. Use the up/down buttons to enter the desired temperature. (The device will automatically confirm the set value).
Wifi Mode		This indicates that Wi-Fi mode is active.

DHW: Domestic hot water; CH: Central heating

FIRST START-UP



- | | | |
|-----------------------|--------------------|--------------------------|
| 1- WiFi mode | 6- On/off | 11- DHW set temp. |
| 2- Heating set temp. | 7- Boiler pressure | 12- Room thermostat mode |
| 3- Level selection | 8- Winter mode | 13- Pump is running |
| 4- Operating levels | 9- Summer mode | 14- Time |
| 5- Boiler water temp. | 10- Timer mode | 15- Combi power |

Before starting the boiler for the first time, check the electrical connections. Check that the cable cross-sections and fuse are correct for the boiler (See Table I).

Check the water level and pressure of the boiler, and check all connections and pipes for leaks. If it is low, add water while the boiler is cold.

To operate in winter;



Tap the button with the Winter symbol on the screen. The symbol will light up when it's active.



In the part where the radiator symbol is located  use the up and down keys to adjust the desired temperature. The temperature you set will be automatically saved.



You can start the device by touching the on/off switch. When the boiler starts working, the green light on the on/off switch will illuminate. 



In the section where the potable water symbol is located  Adjust the desired temperature using the up and down keys. Even when the device is in winter mode, you can obtain hot water when the tap is turned on.

To operate during the summer;

Tap the button with the Text symbol on the screen. The symbol will light up when it's active.



In the section where the potable water symbol is located  Use the up and down keys to adjust the desired temperature. The temperature you set will be automatically saved.



You can start the device by touching the on/off switch. When the boiler starts working, the green light on the on/off switch will illuminate. 

The combi boiler pump will not operate when in summer mode. The device and pump will only activate if there is a need for domestic hot water.

Room Thermostat Input

The device has a room thermostat input for control from the heated room of the building. If a room thermostat is connected to this input, the device will automatically switch on and off according to the temperature value set by the thermostat.

If a room thermostat is not used, this input of the device must be bridged.

Wi-Fi MODE SETTING**Setup and Account Creation**

The first step to using the Tuya Smart app is to install it on your smartphone. It's available for Android and iOS devices. Therefore, scan the QR code on the side with your smartphone to download the app.



Once the download is complete, open the app. If you don't already have a Tuya account, follow these steps:

1. Open the app and scroll through the pages, then tap "Try It Now".
2. On the User Agreement and Privacy Policy pop-up screen, tap "Accept".
3. On the next screen, tap "Register".
4. After selecting your country, enter your email address. After accepting the privacy policy, tap "Get verification code".
5. Enter the verification code sent to your email address.
6. Create your password, paying attention to the password creation criteria.
7. On the next screen, tap "Go to App".
8. Continue by clicking "Allow" for the Tuya Smart app to send you notifications.

Home Screen

Now that you've logged into the app, you'll see the main screen. The layout is quite clean and simple. The main part of the screen is dedicated to listing your smart devices. The name of your home screen will be displayed in the upper left corner. In the upper right corner, there's a button ("plus" symbol) to add devices. At the bottom of the screen, you'll find the home page ("Home") tab in the bottom left and the "Profile" tab in the bottom right.

Creating Your Home Profile

The next step in setting up Tuya Smart is to create your home profile in the app.

1. Tap the "Profile" icon. It's in the bottom right corner of the main screen.
2. Now tap "Home Management" from the menu.
3. On the next screen, tap "Create Home".
4. The "Home Created" screen appears. From here you can set various options for your home:
 - a. Home Name.
 - b. Home Location.
 - c. Rooms.

Setting your home name:

- The first step is to enter your home name. This is the name you will see in the upper left corner of the Tuya Smart home screen. This information is mandatory to proceed. The maximum length of the home name is 25 characters.

Setting your home location:

1. Next, tap "Home Location". While not mandatory, this allows the app to provide you with various information based on your home's location. This includes weather information, air pollution levels, and more.
2. Now you should see a map where you can select your home's location. If you have enabled the "Location" option on your smartphone and are currently at home, simply tap the "target" icon at the bottom of the screen. This will focus the map on your location and make it easier to pinpoint the correct spot.
3. When you're finished, tap "OK" in the upper right corner to return to the "Create Home" menu.
4. Once you're done in the "Create Home" menu, tap "Save" in the upper right corner of the screen.
5. On the home successfully created screen, tap "Done".

Now that you're back on the Tuya Smart home screen, you'll see that the screen has changed slightly and displays information based on your home settings:

- In the upper left corner, you'll see the name of your home.
- Below that, the app will now show the current weather conditions (if you've set them) for your location, such as Sunny/Cloudy/Rain/Night, current outside temperature, humidity, and atmospheric pressure.
- On the right side, you'll see "All devices," which lists all the smart devices you've added to Tuya Smart. Of course, if you don't have any devices showing right now, that's what you'll do next.

Adding Members to the Homepage

1. Tap the “Profile” icon. It’s in the bottom right corner of the main screen.
2. Now tap “Home Management” from the menu.
3. Tap the name of the home you created.
4. Tap “Add member” at the bottom.
5. Choose the method you want to share the member addition link with.
6. The person you want to add will receive a verification code and a link to download the app.

To better understand the process new members go through, here are the steps required to start using the application:

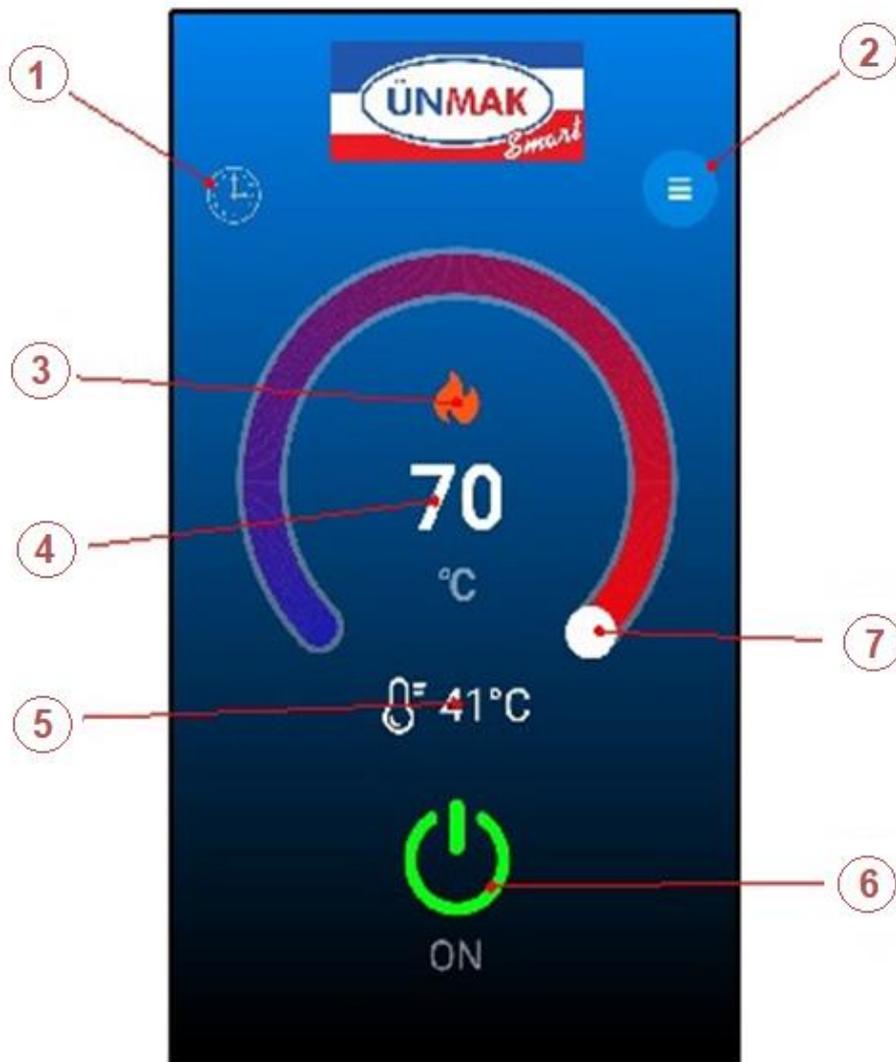
1. First, you need to complete the steps in the Setup and Account Creation section we described at the beginning.
2. Tap the “Profile” tab located in the bottom left of the application.
3. Tap “Home Management”.
4. On the screen that opens, tap the “Join Home” tab.
5. Enter the invitation code you receive and tap the confirmation code.
6. You are now joined Home and can control your device remotely.

Automatically Add Devices

The Automatic Scan mode lets the app search for all your devices, allowing you to automatically connect several smart devices at once. This includes standard Wi-Fi and Bluetooth smart devices, dedicated gateways, Bluetooth network devices, Zigbee gateways and devices, and much more. When you enable this option, Tuya Smart will automatically detect a new smart device when it's turned on and set to pairing mode, and offer to add it to the app.

1. Tap the “plus” icon in the upper right corner of the app. Tap the Add Device tab.
2. Wi-Fi and Bluetooth permissions must be granted to the app to automatically add devices.
3. The app will now automatically search for all available smart devices in your home.
4. When Tuya Smart finds your devices, you will see a pop-up window showing how many devices it has detected.
5. Tap the name of the device you want to add.
6. On the next screen, you will see a list of available Wi-Fi networks near you. In the middle of the screen, you will also see a suggestion to switch your home Wi-Fi network to 2.4 GHz if you are using a 5 GHz network. This is done through the settings of your Wi-Fi router.
7. When you see the name of your home Wi-Fi in the list, tap it and enter the password.
8. Tap “Next”.
9. Now return to the main screen of the app and you will see all the devices that Tuya Smart has successfully connected to.
10. You can start using your device by tapping its name on the home screen.

Mobile phone application view



1. Timer on or off
2. Menu (to turn the timer on or off)
3. Heaters active
4. Boiler set temperature
5. Boiler temperature setting
6. Boiler on/off
7. Boiler temperature adjustment knob

TIMER AND CLOCK SETTING

To set the time, tap the clock icon at the top of the screen once. On the screen that appears, enter



1234 as the password and confirm. Time setting



once completed, confirm by

tapping the arrow in the upper left corner.

To set the time;

 <p>Tap the clock icon at the top of the screen once.</p>
 <p>Enter 1234 on the password screen to confirm.</p>
 <p>Set the time and confirm by tapping the arrow in the upper left corner.</p>

To enter the timer;

 <p>Tap the Timer symbol on the screen.</p>
 <p>The Timer menu will appear on the screen. Select the desired timer interval, operating temperature, and days of the week (up to 5 timer intervals can be entered). Tap TIMER OFF to turn TIMER ON, then tap the arrow in the upper left corner to confirm.</p>

Sample settings:

TIMER 1	
AÇ	OFF
17:30	23:00
TEMP.: 60	

TIMER 2	
ON	OFF
23:01	05:00
TEMP: 40	

TIMER 3	
ON	OFF
05:01	06:30
TEMP.: 70	

In the diagram, the boiler will start at 17:30 and operate at 60 °C, then at 23:01 it will switch to 40 °C, reach 70 °C at 05:01, and switch off at 06:30.

MAINTENANCE AND DEVICE CLEANING

For your system to operate efficiently, regular maintenance by expert teams is required according to the manufacturer's key instructions.

Regular checks:

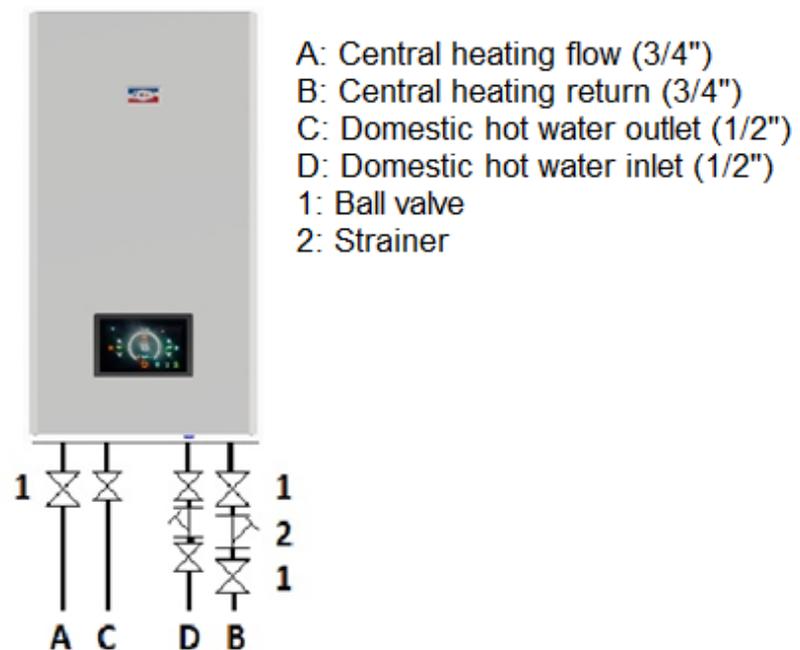
- Check the electrical cables for wear, tear, or any problems due to external factors. Cleaning the device:
- The outer casing of the device can be cleaned as needed.

Maintenance:

Before each operating season, we strongly recommend that you contact our authorized service center to have the device, installation, and electrical connections checked. Absolutely do not attempt maintenance work without the assistance of an expert. It is necessary to have the system checked and maintained by an authorized service center at least once a year. Over time, loosening of connection points can occur in electrical devices. To avoid any problems, it is advisable to perform the checks listed below.

ASSEMBLY

The boiler should be placed in a location where it will not freeze. Especially with cold systems, precautions must be taken to prevent the water from freezing if it is not used for a long time. If the mains water pressure is higher than 2 bar, the pressure of the domestic hot water must be stored. If the domestic hot water pressure is lower than 0.8 bar, sufficient pressure will not be reached. Increasing the temperature at the inlet from the radiators to the boiler, i.e., at the return line to the system, is essential. A dirt filter and protective cover will extend the life of the boiler by preventing any permanent buildup inside the boiler components.



This product is intended for household use. It is not suitable for industrial use.

INFORMATION REGARDING USAGE ERRORS

PROBLEM	CAUSE	SOLUTION
Insufficient heating	<ul style="list-style-type: none"> • One of the electrical resistors may be burned out or disconnected. • The pump may not be working. • Insufficient insulation. 	<ul style="list-style-type: none"> • Call a service technician to check the heating element and its connections. • Call a service technician and check if the device's fuse has blown. Ensure there is electricity in the system. • Improve the thermal insulation of the room where the device is installed.
Partial heating of the radiators.	<ul style="list-style-type: none"> • Air inside the radiator 	<ul style="list-style-type: none"> • Release air from the radiator air vent valves. • Make sure the automatic air purger plug is not tightened.
Temperature sensor error (Heating system)	<ul style="list-style-type: none"> • The temperature sensor may be faulty or have a problem with its connections. 	<ul style="list-style-type: none"> • Disconnect the power to the device and check if the cable lugs are attached. • Call for service.
Temperature sensor error (domestic water)	<ul style="list-style-type: none"> • The temperature sensor may be faulty or have a problem with its connections. 	<ul style="list-style-type: none"> • Disconnect the power to the device and check if the cable lugs are attached. • Call for service.
Release the air from the boiler.	<ul style="list-style-type: none"> • There is air inside the boiler. 	<ul style="list-style-type: none"> • Check the air purger. Loosen the plug if it is closed. • Call for service.
Overheating fault	<ul style="list-style-type: none"> • The water temperature in the device may have risen to 85°C or above. 	<ul style="list-style-type: none"> • Wait for the temperature to drop. Never turn off the power to the device.
High pressure error	<ul style="list-style-type: none"> • The water pressure inside the device is too high. 	<ul style="list-style-type: none"> • Drain the appropriate amount of water through the fill/drain valve, observing the pressure on the manometer.
Low pressure error	<ul style="list-style-type: none"> • The water pressure inside the device is too low. • The pressure sensor may be faulty or have a problem with its connections. 	<ul style="list-style-type: none"> • Add the appropriate amount of water through the fill/drain valve, observing the pressure on the manometer. • Disconnect the appliance from the power and check that the cable sockets are properly connected. • Call for service.

Manufacturing Company:

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