ENERWA & ENERWA PLUS

CONDENSING COMBI BOILERS USER MANUAL



EnerwaPlus



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	GENERAL WARRANTY CONDITIONS BOILER GAS CATEGORIES & DESTINATIONS GAS LEAKAGES USER'S SECTION



DEAR WARMHAUS CUSTOMER

We congratulate you for preferring the Warmhaus Combi Boiler to maintain your heating and hot use water comfort for long years and thank for your trust. Warmhaus Combi Boiler, manufactured in accordance with EU standards and advanced technology, are also being imported to many countries. You can benefit from our Authorized Technical Service network having occupational competency certificate for all kinds of ordinary maintenance requirements for this product manufactured with rigorous studies. Our Authorized Services guarantee protection of your device performance as they always provide original spare parts service. Read this guide carefully in order to use the Combi Boiler in an economic, comfortable and efficient way and keep as a source of application.

In order to ensure efficient use, we initially recommend you to have the installation performed by a certified dealer experienced and competent in installation by the local gas authority.

1.1. GENERAL WARNINGS

Guide Book is an inseparable and integral part of the product and should be delivered to the new user when the device is transferred. This book should be carefully protected and referred to when necessary, as it contains important information regarding installation and operation of the product.



Radiator and DHW installations should be performed by a competent and certified engineering company in accordance with measurements defined based on laws by considering legal regulations in force.



Installation and Maintenance operations should be performed by the expert personnel having adequate technical knowledge in installations sector and occupational competency certificate in accordance with legal regulations in force. As the result of a false

installation, dangers may occur which the manufacturer company cannot be held responsible for and may damage people, other live beings (animals, plants) or commodities.



Natural Gas Installation Project; One of the dealers authorized by a gas company located at your city should be preferred for performing project and etude studies.



In order to enable use of the Combi Boiler with LPG tubes or LPG tanks, conversation of the Combi Boiler should be performed by our authorized Warmhaus service. Project design and application for LPG use should be performed by the company supplying the

tank in accordance with local and legal rules.

1.2. GENERAL WARRANTY CONDITIONS

The Manufacturer company shall not have any responsibilities within or out of the agreement scope due to failures arising from failing to follow legal regulations in force and standards and information given in this guide book (and information and instructions provided by the manufacturer under any circumstances) during installation, use or maintenance operations and device warranty shall also be void.



Only the authorized Warmhaus Service is authorized to make the electrical connection of Combi Boiler and supplying electricity to the Combi Boiler.

The maintenance and repairs as the result of failure of the product within the warranty period due to material, production and installation errors shall be performed as free of charge without claiming any workmanship costs and spare part payments.

(Also See: 3.5. ISSUES REQUIRED TO BE TAKEN INTO CONSIDERATION BY USERS FOR WARRANTY CONDITIONS)



This device should only be used for its designed intended purposes (to be used in closed-circuit heater installation and production of open circuit domestic hot water production). All kinds of other uses are not suitable and may create a potential danger.

Manufacturer shall not be responsible for damages occurring due to interventions, false installation and initial starting performed by unauthorized persons and warranty scope shall be void. As the Combi Boiler is a device having heating system, domestic hot water, natural gas/LPG and electrical

connections, do not make and have any interventions made without the



authorized service.

Any interference with a sealed component is forbidden.



Device maintenance operations should be performed by the authorized and expert technical personnel.



It is strictly forbidden to try to detect the gas leakage with the help of flame.



This device has been manufactured to be installed in the country given on the technical registry label. Performing the installation in countries other than the country written on the table may damage individuals, animals and commodities.

Combi Boilers bear CE mark in accordance with below given directives:

- Gas Appliance Regulation EU/2016/426
- Boiler Efficiency Directive 92/42/EEC
- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU

Please visit the below given web site of Warmhaus for acquiring more detailed information regarding legal regulations on installation of gas fired heating devices: www.warmhaus.com

Manufacturer: WARMHAUS Isıtma ve Soğutma Sistemleri Tic. A.Ş. Bursa Organize Sanayi Bölgesi Park Cad. No:10 16140 Nilüfer-Bursa / Türkiye

WARMHAUS

Warmhaus Authorized Technical Service Centres maintain an assurance regarding quality and professionalism. WARMHAUS is not responsible for damages arising from repairs, part replacements and maintenances performed by third persons and companies and product remains out of the warranty scope under such conditions.

24 kW, 28 & 33 kW



WARMHAUS A.Ş. reserves the right to make all kinds of technical and commercial amendments without giving information and rejects all responsibilities depending on misspelling.



1.3. BOILER GAS CATEGORIES & DESTINATIONS

Designation: Used gas types & Countries		
Object Manufacturer	Type-model / Technical data	Mark (s) of conformity
Boiler gas categoires & destinations	Warmhaus all wall-hung boilers	granted

- Gas categories for Warmhaus boilers applied on CE certification on SZU Test / BRNO are given bellow;
 the appliance category(ies) in relation to the direct countries of destination has been spesified EN 15502-1; GAR Certificate E-30-00300-18 product ID Nr. CE-1015CT0615
- the country(-ies) of destination, in accordance with EN ISO 3166-1;
- the gas supply pressure in millibars, if several normal pressures can be used for the same gas group. They are indicated by their numerical value and the unit "mbar"

Document for conformity approved by SZU test	Appliance Categories	Gas Type	Gas Inlet Supply Pressures	Used Gas	Enerwa 24/28/33 Enerwa Plus 24/28/33, Enerwa ErP version H and R, Enerwa Plus ErP version H and R	Countries of Destination**
YES	I 2H	Natural Gas	20 mbar	G20	Available	AT, BG, CH, CZ, DK, EE, ES, FI, GB, GR, HR, IE, IT, LT, LU, LV, NO, PT, RO, SE, SI, SK, TR
YES	I 2H	Natural Gas	25 mbar	G20	Available	HU
YES	I 2E	Natural Gas	20 mbar	G20	Available	DE, LU, PL, RO
YES	I 2E+	Natural Gas	20 mbar	G20	Available	BE, FR
YES	12E(S)	Natural Gas	20 mbar	G20	Available	BE
YES	I 2ELL	Natural Gas	20 mbar	G20	Available	DE
YES	II 2H3P	Natural Gas	20 mbar	G20	Available	CH, CZ, ES, GB, GR, HR, IE, IT, LT, PT, RO, SI, SK
YES	II 2H3+	Natural Gas	20 mbar	G20	Available	CH, CY, CZ, ES, GB, GR, IE, IT, LT, PT, SI, SK, TR
YES	II 2E+3+	Natural Gas	20 mbar 25 mbar	G20	Available	BE, FR
YES	II 2E+3P	Natural Gas	20 mbar 25 mbar	G20	Available	BE, FR
YES	II 2H3B/P	Natural Gas	20 mbar	G20	Available	AT, CH, CY, CZ, DK, EE, FI, GR, IT, LT, NO, RO, SE, SI, SK
YES	II 2E3B/P	Natural Gas	20 mbar	G20	Available	DE
YES	II 2ELL3B/P	Natural Gas	20 mbar	G20	Available	DE
YES	I 2L	Natural Gas	25 mbar	G25	Available	NL
YES	I 2E+	Natural Gas	25 mbar	G25	Available	BE, FR
YES	I 2ELL	Natural Gas	20 mbar	G25	Available	DE
YES	II 2L3P	Natural Gas	25 mbar	G25	Available	NL
YES	II 2L3B/P	Natural Gas	25 mbar	G25	Available	NL
YES	II 2ELL3B/P	Natural Gas	20 mbar	G25	Available	DE
YES	I 3+	Buthane Gas	28-30 mbar 37 mbar	G30	Available	BE, CH, CY, CZ, ES, FR, GB, GR, IE, IT, LT, PT, SI, SK
YES	I 3B/P	Buthane Gas	30 mbar	G30	Available	BE, CY, CZ, DK, EE, FI, GB, GR, HU, HR, IT, LT, NL, NO, RO, SE, SI, SK, TR
YES	I 3B/P	Buthane Gas	50 mbar	G30	Available	AT, CH, DE, FR, SK
YES	II 2H3+	Buthane Gas	28-30 mbar 37 mbar	G30	Available	CH, CY, CZ, ES, GB, GR, IE, IT, LT, PT, SI, SK, TR
YES	II 2E+3+	Buthane Gas	28-30 mbar 37 mbar	G30	Available	BE, FR
YES	II 2H3B/P	Buthane Gas	30 mbar	G30	Available	CY, CZ, DK, EE, FI, GR, IT, LT, NO, RO, SE, SI, SK
YES	II 2H3B/P	Buthane Gas	50 mbar	G30	Available	AT, CH, SK
YES	II 2E3B/P	Buthane Gas	50 mbar	G30	Available	DE
YES	II 2L3B/P	Buthane Gas	30 mbar	G30	Available	NL
YES	II 2ELL3B/P	Buthane Gas	50 mbar	G30	Available	DE
YES	I 3P	Propane LPG	37 mbar	G31	Available	BE, CH, CZ, ES, FR, GB, GR, HR, IE, IT, LT, NL, PL, PT, SI, SK, TR
YES	II 2H3P	Propane LPG	37 mbar	G31	Available	CH, CZ, ES, GB, GR, HR, IE, IT, LT, PT, RO, SI, SK
YES	II 2L3P	Propane LPG	37 mbar	G31	Available	NL
YES	II 2E+3P	Propane LPG	37 mbar	G31	Available	BE, FR

^{**} EN 437+A1:2009, Codes for the representation of gases and names of countries and their subdivisions; Part 1: Country codes (ISO 3166-1:2006)



1.4. GAS LEAKAGES

How to move when natural gas odour is detected.



Do not use lighter - matches.



Do not light on and off lamps and other electrical devices or pull off the plug.



Ventilate the environment by opening doors and windows.



Close valves of devices operating with natural gas and your gas meter.



Do not use the door



NATURAL GAS EMERGENCY



FIRE DEPARTMENT



Do not use phones in case of a natural gas leakage. It may create sparks.



Immediately evacuate the place with gas odour.



Natural Gas Emergency Line from your neighbour or another suitable place.



Do not make any intervention on installation.



Never close culverts ensuring discharge of the gas from the environment in case of a natural gas leakage.







POLICE

INFORMATION: You can visit web sites of local gas authorities and NATURAL GAS EMERGENCY sections.

DURING EMERGENCIES

ADVICE: Please take note local emergency phone numbers.

2. USER'S SECTION

2.1. GENERAL WARNINGS FOR USER

2.1.1. Use of Combi Boiler

If a gas odour is available in the environment, close home entrance line and gas valves of your combi boiler or close the LPG tank valve or bottle valve if bulk gas is used. Do not shut on-off electricity buttons and do not do anything those may create sparks. Call the gas company or Authorized Service. (See 1.4 GAS LEAKAGES, Page 6)

First start should be performed by the Warmhaus Authorized Service for your safety and preventing void warranty scope. Our Authorized Service will give you required information about use of combi boiler after performing initial controls of your combi boiler and starting for the first time.

Perform below given controls prior to starting to use:

- Ensure that radiator/heating system, tap water and gas valves located under your combi boiler are open, the radiator installation pressure is between 1 - 1,5 bar on the manometer located under the Combi Boiler and system air is discharged,
- Gas is available in your gas line (you can control by igniting one of your gas ovens),
- · Combi Boiler electrical fuse is open,
- No flammable materials and products are available near to the Combi Boiler.
- · Exhaust gas flue set output is not blocked,
- If a room thermostat or control device is connected, ensure that it is at ON position.

If you will shut-off the combi boiler for a long period, perform below written operations:

- Discharge the radiator installation water not containing anti-freeze,
- Close combi boiler electrical fuse, gas valve, radiator and tap water valves!

If you will shut-off the combi boiler for a short period, perform below written operations:

- Do not close combi boiler electrical fuse, gas valve, radiator and tap water valves!
- Leave the Combi Boiler at Summer position and activate its Frost Protection function,

Shut-off the combi boiler during maintenance and repair operations to be performed around exhaust gas discharge flues. After operations are completed, have the combi boiler controlled by Warmhaus Authorized Sorvice.

Follow below given main rules:

- Do not clean external frame of combi boiler while combi boiler is functioning and do not use easily flammable materials.
- Do not hold the combi boiler with wet hands or feet; also without shoes and with bare feet.
- Do not pick electricity cables.
- In case cables are damaged, shut-off the combi boiler and fuse switches and do not use the combi boiler.
- Electrical cables of combi boiler and its accessories should have replaced by the Authorized Service.
- Do not expose the hung combi boiler to direct vapour those may arise from cooking places.
- · Prevent use of combi boiler by children and inexperienced persons.



Control Panel of Enerwa Model Combi Boiler Devices



Figure 1 Control panel of Enerwa combi boiler

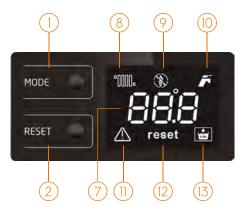


Figure 2 Control panel of Enerwa combi boiler screen



BUTTONS and PUSHBUTTONS

- 1. MODE, position adjustment button.
- 2. **RESET** button.
- 3. Radiator (CH) water temperature adjustment button.
- 4. **DHW** temperature adjustment button.
- 5. Software connection slot.
- 6. Digital display screen
- 7. Temperature, data and failure codes display
- 8. Radiator symbol is seen when combi boiler is functioning in (CH) position. Symbol flashes at heating steps or when radiator temperature adjustment is made.
- 9. Flame symbol is only seen when boiler is active (burning in combi boiler); when system detects availability of flame. It is seen as symbol in case of failure.
- 10.**DHW** tap symbol is seen at summer and/or winter position of the combi boiler. Symbol flashes on **DHW** request or when **DHW** adjustment is made.
- 11. Failure indicator.
- 12. Failure status **RESET** requirement.
- 13. Radiator low water pressure.

The temperature value displayed on the combi boiler screen has a \pm 3°C tolerance depending on environmental conditions not arising from the combi boiler.

ENERWA combi boiler screens consist of navy blue coloured backlight LCD screen, 2 buttons, Radiator (3) and Hot Tap Water (4) and 2 pcs, **RESET** (2) and **MODE** (1) pushbuttons.

RESET: It is used for re-starting the combi boiler and eliminating the failure in case of combi boiler failure.

MODE: Winter/Summer/OFF mode is used for position adjustment.

Operating positions and related notifications:

POSITION EXPLANATIONS:

- **CLOSED** or **OFF** (3 digits LCD screen)
- WINTER» Radiator temperature + °C + tap + radiator is displayed.
- SUMMER» Radiator temperature + °C + tap is displayed.
- CH ON» Radiator Temperature + °C + tap + flashing radiator (symbol) is displayed.
- **DHW ON»** DHW temperature + °C + flashing tap (symbol) is displayed.
- CH FROST PROTECTION» Radiator temperature
- °C + flashing radiator (symbol) + when boiler is ignited flame (symbol) is displayed.
- **DHW FROST PROTECTION»** CH temperature + °C flashing radiator and tap (symbol) + when boiler ignited flame (symbol)
- CH/DHW SETTING CHANGE» CH adjustment change will be activated when radiator symbol rapidly flashes. DHW adjustment change will be activated when tap symbol rapidly flashes.
- Service technician function radiator + tap displayed. (Only for authorized service, wait for the function to end without pressing any button or rotating the button in such case!)

CH: (System) Central Heating DHW: Domestic Hot Water



2.2. SELECTION OF ON/OFF/STANDBY AND SUMMER/WINTER MODES

Use V automat switch for interrupting the electrical connection of combi boiler. The temperature value when electricity is supplied to the device is the temperature value of water in the installation.

2.2.1. On/Off/Standby Positions



Use V automat (fuse) switch for shutting ON/OFF the electrical connection of combi boiler.



When the combi boiler is started for the first time, screen displays nG letter and then a number (for instance 24) indicating kW power of the device



{If you have a ground heating system, as our Authorized Service adjust your combi boiler for **"Low Temperature Operation"**, maximum temperature shall be limited with the Radiator temperature adjustment button (3) (e.g. maximum 47 °C)}.



Then, OFF letter is displayed,



and screenlight is closed. Now, combi boiler is at STANDBY position. The temperature value when electricity is supplied to the device is the temperature value of water in the installation.



2.2.3. Operation at Summer Position

position. In order to switch to DHW position;

Combi Boiler only operates for heating the Domestic Hot Water at that

At that position, you can adjust the temperature between 35 - 60 °C with the Domestic Hot Water temperature adjustment button (4) whose symbol is displayed. When DHW button is rotated, while screen light is on if you rotate (right) clockwise \circlearrowleft , you can increase the temperature, and you can decrease the temperature when rotated counter clockwise (left) \circlearrowleft .

2.2.2. Operation at Winter Position

At that position, combi boiler operates both for heating the environment and providing hot tap water.



Radiator temperature is adjusted with button (3) and Domestic Hot Water temperature adjustment is made with button(4) and this temperature is displayed by indicator (7) on the screen.



If you are starting the combi boiler for the first time hold **MODE** button, and release the button after the cycle is completed on the screen, initially combi boiler switches to radiator position, its symbol "WW will flash on left top corner of the screen existing radiator installation temperature shall be indicated on the screen and screenlight will be turned-off.



In order to shuton the combi boiler, hold **MODE** button, whereas a circle starts on the screen, release the button when circle \mathcal{L} is completed.



In order to switch to DHW position, hold **MODE** button and release the button after completion of cycle on the screen. At that position, symbol flashes at right top corner of the screen and existing DHW temperature will be seen on the screen and screen light will turn off.



In such case, combi boiler initially gets in the Radiator position, its symbol flashes at left top corner of screen and existing radiator installation temperature is displayed on the screen and then screen light turns off. At that position, you can adjust the temperature between 35 - 80 °C with the Radiator temperature adjustment button (3).



At that position , you can adjust the temperature between 35 - 60 °C with the Domestic Hot Water temperature adjustment button (4). Screen light will be open during adjustment, tap symbol and Domestic Hot Water temperature value will flash. When the DHW button is rotated, screen light turns on and temperature can be increased by rotating clockwise , and decreased by rotating counter clockwise . Adjusted temperature is indicated on the screen via the indicator (7). The value adjusted when button is released shall be approved after flashing for 4-5 seconds

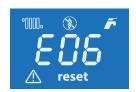


Temperature value increases when button is rotated clockwise G or decreases when rotated counter clockwise G. The adjusted value shall be confirmed after flashing for 4-5 seconds after releasing the button and continues to display the temperature value in the installation.



2.2.4. Resetting the Combi Boiler (Re-Starting)

In cases that device gives failure/locking errors hold **RESET** button for 3-4 seconds, and release after completing the cycle on the screen. You can reset the device and have it repeated re-start operations



A sample utilisation error; when E81 or E06 failure codes are displayed on the device screen, it has passed to failure since no ignition occurred in your device. In that case, any of gas line valves connected to the combi boiler may be closed, combi boiler will be restarted when closed valve is opened and RESET button is pressed. If combi boiler is not started with resetting, please consult our Authorized Service.

2.2.5. Shutting off the Combi Boiler

To bring the combi boiler to OFF position while it is in SUMMER position;



When the **MODE** button is hold, after the cycle is completed while screen light is on,



screen will display **OFF** letter, that means your combi boiler is OFF.



To bring combi boiler in **OFF** position while it is in **WINTER**; hold **MODE** button, after cycle is completed while the screen light is on, combi boiler will be in **SUMMER** position.



Then, upon repeating the same operation, letter will be displayed on screen after completing the cycle and screen light turns off.



Now, your combi boiler is at **STANDBY** position as **OFF**.

Control Panel of Enerwa Plus Combi



Figure 3 Control Panel of Enerwa Plus Combi Boiler

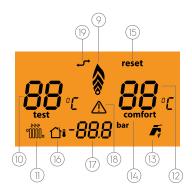


Figure 4 Control Panel Screen of Enerwa Plus Combi Boiler

BUTTONS and PUSHBUTTONS

- 1. MODE, selection button.
- 2. RESET button.
- 3. Radiator (CH) temperature increasing button.
- 4. Radiator (CH) temperature decreasing button.
- 5. Software connection slot.
- 6. Digital display screen
- 7. Domestic Hot Water temperature increasing button.
- 8. Domestic Hot Water temperature decreasing button.
- 9. Flame modulation indicator
- 10.Radiator (CH) water temperature
- 11. Radiator (CH) mode operating indicator
- 12.Domestic Hot Water temperature
- 13. Domestic Hot Water operating indicator
- 14. Comfort mode operation
- 15. Failure status RESET requirement.
- 16.External Weather Temperature Sensor connection indicato
- 17. Digital manometer (Radiator pressure 1,3 bar warning symbol; E02 failure code is indicated if the pressure is lower than this value)
- 18. Failure indicator.
- 19. OpenTherm (OT) Room Thermostat connection indicator.

The temperature value displayed on the combi boiler screen has a \pm 3°C tolerance depending on environmental conditions not arising from the combi boiler. Screen of EnerwaPlus combi boiler models consist of amber coloured backlight LCD screen and 6 touch sensitive buttons: RESET, MODE, CH (+), CH (-), DHW (+), DHW (-)

RESET: It is used for re-starting the combi boiler and eliminating the failure in case of combi boiler failure.

 $\mbox{\bf MODE:}$ It is used for switching between operating modes: Winter / Summer / OFF

CH: (System) Central Heating DHW: Domestic Hot Water





Operating modes and related notifications:

OPERATING MODES EXPLANATIONS:

- Service technician function radiator + tap displayed. (Only for authorized service, wait for the function to end without pressing any button in such case!)
- **CLOSED** or **OFF** (3 digits LCD screen)
- WINTER» Radiator temperature + °C + tap + radiator is displayed.
- **SUMMER»** Radiator temperature + °C + tap is displayed.
- CH ON» Radiator Temperature + °C + tap + flashing radiator (symbol) is displayed
- DHW ON» DHW temperature + °C + flashing tap (symbol) is displayed.
- CH FROST PROTECTION» Radiator temperature
- °C + flashing radiator (symbol) + when boiler is ignited flame (symbol) is displayed.
- **DHW FROST PROTECTION»** CH temperature + °C flashing radiator and tap (symbol) + when boiler ignited flame (symbol)
- CH/DHW SETTING CHANGE» CH adjustment change will be activated when radiator symbol rapidly flashes. DHW adjustment change will be activated when tap symbol rapidly flashes.
- Service technician function radiator + tap displayed. (Only for authorized service, wait for the function to end without touching any button)

2.2.6. Selection of On/Off/Standby and Summer/Winter Modes

ON/OFF button is not available on the combi boiler panel. Switching on/off should be performed on the V automat switch to be connected to the combi boiler line.

2.2.7. On/Off/Standby Positions

The boiler panel does not have ON/OFF button. The boiler must be turned on/off by using the V circuit breaker connected to the boiler circuit.



When the combi boiler is started for the first time, screen displays nG letter and then a number (for instance 24) indicating kW power of the device.



Then, OFF letter is displayed,



and screenlight is closed. Now, combi boiler is at STANDBY position. The temperature value when electricity is supplied to the device is the temperature value of water in the heating circuit.

2.2.8. Operation at Winter Mode

At that position, combi boiler operates both for heating the environment and providing Domestic Hot Water. Radiator (CH) temperature adjustment is made with (3) and (4) numbered buttons in Figure 41, Domestic Hot Water. temperature adjustment is made with (7) and (8) numbered buttons and this temperature is indicated with (10) numbered indicator for Radiator (CH) and with (12) numbered indicator for Domestic Hot Water.



Hold the **MODE** button for switching on the combi boiler when **GFF** is available on the screen.



A cycle starts on the screen.



release the button when cycle $\mathcal{L} \mathcal{I} \mathcal{I}$ is completed.



In such case, combi boiler initially gets into Radiator position, its symbol \$\mathbb{OM}\$ flashes on the left bottom corner of screen and tap symbol is seen at right bottom corner. A digital manometer indicating the heating circuit pressure is located at lower middle section of the screen and also actual heating circuit temperature is seen on the screen at the same time and screen light is turned off.



Analogue manometer is located near to right-bottom side of the combi boiler. Installation pressure should be seen in this manometer even in the absence of electricity.

When combi boiler is started, flame modulation symbol is seen at the middle section of the screen. At that position, you can increase \pm and decrease \equiv the temperature with radiator (CH) temperature adjustment buttons (see. Figure 40) (3) between 35 – 80 °C, screen lights when buttons are pressed and °C symbol °MIII flashes besides the radiator (CH) temperature value.



{If you have a ground heating system, as our Authorized Service adjust your combi boiler for **"Low Temperature Operation"**, maximum temperature shall be limited with the Radiator (CH) temperature adjustment button (3) (e.g. maximum 50 °C)}.



Domestic Hot Water Adjustment at Winter Position; You can adjust the hot tap water temperature value between 35 - 60 °C with (7) and (8) numbered buttons under the RESET button. Screen lights during temperature change, °C symbol flashes besides the DHW temperature value. Screen light turns off after adjustment.

2.2.9. Operation in Summer Mode

Combi Boiler only operates for heating the domestic hot water in this mode.. In order to switch to tap water position;



If you are starting the combi boiler for the first time hold **MODE** button, and release the button after the cycle \mathcal{L} is completed on the screen, initially combi boiler switches to radiator position, its symbol $\frac{1}{2}$ will flash on left top corner of the screen existing radiator installation temperature and screen light will turn off.



In order to switch to Summer, hold **MODE** button and release the button after completion of cycle on the screen. At that position, symbol falshes at right bottom corner of the screen and actual DHW temperature will be seen on the screen and screen light will turn off.



In this mode, you can adjust the Domestic Hot Water temperature between 35 –60 °C with (7) $\stackrel{\blacksquare}{+}$ and (8) $\stackrel{\blacksquare}{-}$ numbered buttons below the RESET button.

Screen lights during temperature change, °C symbol flashes besides the DHW temperature value. Adjustment value is confirmed after screen light turned off following the adjustment.

Shutting off the Combi Boiler

To bring the combi boiler to OFF position while it is in SUMMER position;



When the **MODE** button is hold, while screen light is on after the cycle $\Box J$ is completed, $\Box FF$ letter seen on the screen, screen light turns off, now the combi boiler is at **OFF** mode.



To bring the combi boiler to ${f OFF}$ position while it is in ${f WINTER}$ position;



When the **MODE** button is hold while screen light is on after the cycle \mathcal{L} is completed, combi boiler will switch to **SUMMER** mode.



Then, when the same transaction is repeated, after cycle is completed **UFF** is seen on the screen screen light turns off, your combi boiler is now at **STANDBY** position.

2.2.10. Use with Room Thermostat (Optional)

Combi Boiler has initial preparation for remote control connection via environment thermostats being sold as optional sets. All Warmhaus thermostats can be connected with dual-wired cables. Carefully read user's and installation instructions given in the Accessory set. Thanks to control units with room thermostat having program clock, you can control your combi boiler at installation place, operating based on room temperature and also adjust different uses depending on each day of the week.

Important: It is compulsory to have two different lines according to legal regulations being in force regarding electrical installations in case of using a thermostat On/Off on the Remote Control. It is not allowed to use any pipe or hose of the combi boiler as electricity or phone earthing line. That must be ensured prior to making electrical connections of the combi boiler.

General Utilisation Type

- Please consult our authorized services for room thermostats compatible with Warmhaus combi boiler.
- Do not remove device components during operation.
- Do not place at a position allowing direct sunlight exposure or near heat sources.
- Manufacturer company shall not be responsible for below given situations:
 a) Faulty installation
 - b) Making intervention on the device by unauthorized persons
 - c) Failing to follow instructions given in this book and room thermostat booklets

Installation Instruction: Device installation shall only be performed by the Warmhaus Authorized Service. The dual cable required for installation is supplied by the dealer/consumer.



Room thermostat should be installed at 1,25 m and 1,50 m height from ground and at least 30 cm distance.



Room thermostat shall be minimum 30 cm away from any doors or windows allowing airflows.

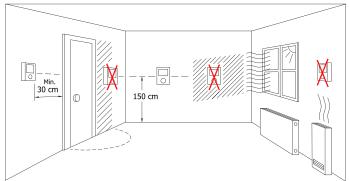


Figure 5 Thermostat position

Maintenance and Service Life: Warmhaus room thermostat should not come into contact with water or excessive humidity. Unless an external damage occurs, the room thermostat does not require any maintenance.

2.2.11. Outside Weather Temperature Sensor Use (Optional)

Outside Weather Temperature Sensor (optional) can be installed in your combi boiler by our Authorized Service (see: Installation Section; Accessory Connection Scheme), and you can enable automatic temperature adjustment for the radiator with immediate responses to outside weather temperature changes via smart and comfort operation. Therefore, it maintains an efficient and economic operation by reducing the radiator water temperature when outside weather temperature increases and gradually increasing the radiator water temperature when outside weather temperature decreases and sets you free from making radiator temperature adjustments. This sensor is activated when connected independently from the typology or availability of used thermostat, the relation between output temperature and outside temperature is defined according to curves given in the graphic below based on position of button located on the combi boiler panel.

After connecting the Outside Weather Temperature Sensor, adjustment is made according to average outside weather temperature of your province with PO4 parameter. Our authorized service will make this adjustment during installation

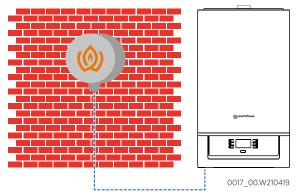


Figure 6 Outside weather temperature sensor

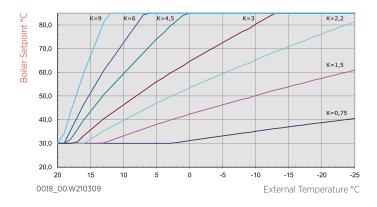


Figure 7 External weather temperature sensor operation curves

2.2.12. Customizing Combi Boiler Features

As your combi boiler has an advanced electronic card, operation conditions and certain parameters related with your preferences may be changed by our Authorized Service. Please consult our authorized service when any changes requested in below given parameters.

(P07) Controlled Power Increase Period.

When combi boiler starts, it uses a controlled period defined for reaching the adjusted maximum heating power. This period is adjusted as 3 minutes as standard and can be increased up to 10 minutes.

(P08) Radiator (Heating) Power.

The combi boiler automatically operates with variable gas flow rates depending on heat load of installation between the minimum and maximum power. The minimum and maximum heating capacities can be adjusted according to needs...

(P21) Lowe temperature region selection.

This parameter should be adjusted as 1 for ground heating or heating systems operating with low temperature. O (zero) value is selected for radiator systems to operate at high temperatures as standard.

(P24) Child Protection

This parameter is not active as standard, please consult our Authorized Service for activating the parameter (Protection lock is activated when parameter is adjusted as 1). Buttons are locked after 2 minutes following use of buttons when the function is active. Keylock is opened when the MODE button is hold until cycle is completed for getting off the child protection. Your combi boiler is under control against setting changes upon activation of this feature.

(P40) Radiator ignition delay period.

Combi Boiler device is equipped with an electronic timer for preventing frequent ignition. This period is adjusted as 2 minutes as standard and can be increased up to 10 minutes.

(P42) Ready Hot Water (Pre-Heating passive/active).

In order to rapidly prepare DHW faster and reducing the cold water consumption during waiting, grid water is heated in the plate exchanger and ready hot water is stored. This function is displayed on 6 buttons EnerwaPlus LCD Screen.

Activation of this function in ENERWA models is performed with parametric adjustment by our Authorized Service depending on your request.

Air Discharge Function

Activating the menu for ENERWA models:

The boiler has to be switched to OFF mode first.

Air discharge function can be activated by pressing the RESET button more than 5 seconds while CH button and DHW button are at maximum position. Upon activation of this function, 3 ways valve and pump is operated or not operated for discharging the air within the radiator installation.

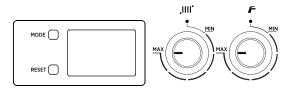


Figure 8 Reset and buttons MAX position

Air Deaeration Function Activating the menu for PRIWA PLUS, PRIWA PLUS ErP and ENERWA PLUS models:

The boiler has to be switched to OFF mode first. It is possible to activate deaeration function pressing RESET and "-" for circle time.

"Air" will be displayed on the screen. Boiler will start the Deareation function.

During this function pump and 3-way valve are activated/ deactivated in order to have deaeration of the hydraulic plant.

This function ends pushing again RESET and "-" for circle time or at the end



Figure 9 Ending the deairation function



2.3. TROUBLESHOOTING

2.3.1. Failure Codes Table

Error Code	Description of the Error	Malfunction	Probable Cause	Solution(s)
E 01	Intervention of exhaust Thermostat (Open Combustion Chamber boiler)	Boiler does not work, E01 error code flashing on the screen	> Flue Sensor faulty	1-) Reset & Restart boiler 2-) Call for authorised service at first
E 02	Low water pressure in the system/system parameter wrongly setted	Boiler does not work, E02 error code flashing on the screen	> Water pressure in the boiler not enough	1-) Fill the boiler 1,2-1,5 bar according to manual 2-) Check if the system pressure 1,2 - 1,5 bar from the manometer located right & bottom of the boiler 3-) If problem persist Call for authorised service 4-) Reset & Restart boiler
E 03	High water pressure in the system	Boiler does not work, E03 error code flashing on the screen	> High Water pressure in the boiler higher than > 2,8 bar	1-) Call for authorised service at first 2-) Check intermittent contacts or open contacts on harness carefully 3-) Check Domestic heating water temperature sensor ressistance according to page 95 at section 4.30 if its out of tolerance replace NTC 4-) Check Cabling and connectors between double NTC and board 5-) Reset & Restart boiler
E 04	Domestic heating water temperature sensor faulty	Boiler does not work on DHW mode but still work on Central heating mode, E04 error code flashing on the screen	> Domestic heating water temperature sensor faulty	1-) Call for authorised service
E 05	Central heating FLOW temperature sensor faulty	Boiler does not work, E05 error code flashing on the screen	> Central heating FLOW temperature sensor faulty	1-) RESET boiler at first check if problem removed 2-) Check other gas devices if they are working 3-) Check main gas suppy valve is open or not 4-) Check boiler gas suppy valve bellow the boiler is open or not 5-) RESET boiler at first check if problem removed 6-) Call for authorised service at first
E 06	No ignition	Boiler does not work, E06 error code flashing on the screen	> Gas supply failure	1-) RESET boiler at first check if problem removed 2-) Check boiler central heating valves are open if they are closed open all 3-) Check all radiator valves are open if they are closed open minimum 3 meters of radiator must be open 4-) RESET boiler and check if problem removed 5-) Call for authorised service at first
E 07	Safety thermostat intervention	Boiler does not work, E07 error code flashing on the screen	> Lack of water on the system > Pump blockage > Pump failure > Pump harness > Installation blockage	1-) RESET boiler at first check if problem removed 2-) Check boiler central heating valves are open if they are closed open all 3-) Check all radiator valves are open if they are closed open minimum 3 meters of radiator must be open 4-) RESET boiler and check if problem removed 5-) Call for authorised service at first
E 08	Flame circuit failure	False flame signal from combustion or electrode	> Water blokage on syphon > Electronic board	1-) Call for authorised service
E 09	No water circulation in the system	Boiler does not work, E09 error code flashing on the screen	> Lack of water on the system > Pump blockage > Pump failure > Pump harness > Installation blockage	1-) RESET boiler at first check if problem removed 2-) Check boiler central heating valves are open if they are closed open all 3-) Check all radiator valves are open if they are closed open minimum 3 meters of radiator must be open 4-) RESET boiler and check if problem removed 5-) Call for authorised service at first
E 10	Central heating temperature RETURN sensor faulty	Boiler does not work, E10 error code flashing on the screen	> Central heating RETURN temperature sensor faulty	1-) Call for authorised service
E 11	Gas valve modulator disconnected	Boiler does not work, E11 error code flashing on the screen	> Gas valve harness	1-) Call for authorised service 2-) Check gas valve cabling between board and gas valve
	DHW temperature Probe, in storage tank mode, fault	Boiler does not work, E12 error code flashing on the screen	> Domestic heating water temperature sensor in storage tank faulty	1-) Call for authorised service at first 2-) Check intermittent contacts or open contacts on harnesscarefully 3-) Check Domestic heating water temperature sensor ressistance 4-) Check Cabling and connectors between NTC and board 5-) Reset & Restart boiler
E 13	Exhaust temperature probe over-temperature alarm	Boiler does not work, E13 error code flashing on the screen	> Over temperature flue gas outlet value > 105 C°	1-) Call for authorised service
E 14	Exhaust (FLUE) temperature probe fault	Boiler does not work, E14 error code flashing on the screen	> Central heating FLUE temperature sensor faulty	1-) Reset & Restart boiler 2-) Call for authorised service
E 15	Fan failure (feedback/ supply)	Boiler does not work, E15 error code flashing on the screen	> Fan harness	1-) Reset & Restart boiler 2-) Call for authorised service
E 16	Central heating temperature RETURN sensor faulty	Boiler does not work, E10 error code flashing on the screen	> Central heating RETURN temperature sensor faulty	1-) Reset & Restart boiler 2-) Call for authorised service
E 17	Temperature difference between FLOW and LIMIT NTC (Double Heating Probe) faulty	FLOW and LIMIT sensor (DOUBLE NTC) malfunction	> FLOW and LIMIT Sensor (double NTC) faulty	1-) Reset & Restart boiler 2-) Call for authorised service



Error Code	Description of the Error	Malfunction	Probable Cause	Solution(s)
E 19	Water flow selection with water flow meter input reading	Lack of domestic heating water on request	Wrong parameters settled on TsP menu	1-) Call for authorised service at first 2-) Only authorised service must adjust TsP Parameter P01=0 with defalut value
E 20	CH Overtemperature, Temperature Central Heating > TSP 81 value °C	Boiler does not work, E81 error code flashing on the screen	> Lack of water on the system > Pump blockage > Pump failure > Pump harness > Installation blockage	1-) RESET boiler at first check if problem removed 2-) Check boiler central heating valves are open if they are closed open of all 3-) Check all radiator valves are open if they are closed open of all minimum 3 meters of radiator must be open 4-) RESET boiler and check if problem removed 5-) Call for authorised service
E 21	Delta Temperature Central Heating flow and Return > TSP 82 value °C	Boiler does not work, E21 error code flashing on the screen	Lack of water on the system Pump blockage Pump failure Pump harness Installation blockage	1-) RESET boiler at first check if problem removed 2-) Check boiler central heating valves are open if they are closed open of all 3-) Check all radiator valves are open if they are closed open of all minimum 3 meters of radiator must be open 4-) RESET boiler and check if problem removed 5-) Call for authorised service
E 28	Maximum allowed consecutive lock-out reset reached	Usable RESET number reached.	Too many consecutive lock-out failures (followed by reset) due to other possible causes	Removing power supply reset will be allowed Check the root cause of Error code to solve The fault still persists call for authorised service
E 37	Low voltage anomaly	Boiler does not work, E37 error code flashing on the screen	Low voltage < 165 VAC +/- 5% on the supply network during normal operation OR < 182 VAC +/- 5% during Au-TO calibration mode	1-) Call for Electrical supply network provider 2-) Error will remove if supply voltage > 170 VAC +/- 5% 3-) If this failure is observed during calibration calibration can not be complete unless supply voltage > 188 VAC +/- 5%
E 40	Wrong network frequency survey	Boiler does not work, E40 error code flashing on the screen	Wrong frequency of the electric supply net work . Value out of tolerance, 50 Hz +/- 5%	1-) Call for Electrical supply network provider 2-) Error will remove if supply frquency 50 Hz +/- 5%
E 41	Loss of flame more than 6 successive times	Boiler does not work, E41 error code flashing on the screen	> Too many domestic hot water request in short period (1 min) > Low gas pressure	1-) Call for authorised service at first
E 42	Buttons anomaly	Boiler does not work, E42 error code flashing on the screen	Wrong parameters settled on TsP menu	1-) Call For service
E 43	Opentherm communication error	Boiler does not work, E43 error code flashing on the screen after 1 minute of communucation error	Opentherm line disconnected	1-) Remove energy from boiler and re energize E43 will be removed and boiler & buttons will get back to funcitional 2-) Replace the room unit batteries with the fresh ones and reset from room unit 3-) Check cabling between boiler and room unit and re connect if any disconnection, if connection set up succesfully then connection symbol will be activated on the screen 4-) Call for authorised service to re connect openterm connection
E 44	Cumulated intermittent ignition without reaching burner ignition.	Boiler does not work, E44 error code flashing on the screen	> Intermittent contacts on harness > Hammer effect on water net > Too many request from in shotr time from out side room units or thermosad bridge etc.	1-) Reset & Restart boiler 2-) Call for authorised service at first
E 62	Calibration request	Boiler does not work, E62 error code flashing on the screen	> Calibration not done > Replacing board but not service key from the board dismantled > Service key damaged or disconnected > Updating Software (probable)	1-) Call For service
E 72	Delta T heating at ignition not occurred	Boiler does not work, E72 error code flashing on the screen	> FLOW OR RETURN Sensor not on position	1-) Call for authorised service at first 2-) Check RETURN and FLOW sensor on position.
E 74	Second CH temperature Probe faulty	Boiler does not work, E74 error code flashing on the screen	> FLOW and LIMIT Sensor (double NTC) faulty	1-) Reset & Restart boiler 2-) Call for authorised service.
E 77	Absolute current values reached	Boiler does not work, E77 error code flashing on the screen	> Gas inlet pressure > Aging or rust on the electrode > Recirculation on fluegas path > Blokage on flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure	1-) Reset & Restart boiler 2-) Call for authorised service.
E 78	Max regulation current value reached	Boiler does not work, E78 error code flashing on the screen	> Gas inlet pressure > Aging or rust on the electrode > Recirculation on fluegas path > Blokage on flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure	1-) Reset & Restart boiler 2-) Call for authorised service.
E 79	Min regulation current value reached	Boiler does not work, E79 error code flashing on the screen	> Gas inlet pressure > Aging or rust on the electrode > Recirculation on fluegas path > Blokage on flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure	1-) Reset & Restart boiler 2-) Call for authorised service.



Error Code	Description of the Error	Malfunction	Probable Cause	Solution(s)
E 80	Problem on electronic gas valve driver	Boiler does not work, E80 error code flashing on the screen	> Electronic board > Gas valve failure	1-) Reset & Restart boiler 2-) Call for authorised service.
E 81	Lock-out for combustion problem at starting (1)	Boiler does not work, E81 error code flashing on the screen	> Strong flue blokage > Combustion problem > Wrong flue > Gas inlet pressure > Aging or rust on the electrode > Recirculation on fluegas path > Electrode position > Combustion calibration	1-) Reset & Restart boiler 2-) Call for authorised service.
E 84	Capacity reduction for detected (supposed) low gas inlet pressure	Boiler operates at limited capacity, E84 error code flashing on the screen	> Gas inlet pressure > Combustion problem	1-) If there is strong wind (ie.wind storm) wait until the wind storm stop then RESET the boiler 2-) IF problem persist Call for authorised service Attention: Only authorised service must perform Au-To calibration
E 87	Problem on electronic gas valve circuit	Boiler does not work, E87 error code flashing on the screen	> Cabling disconnections > Gas valve failure	1-) If there is strong wind (ie.wind storm) wait until the wind storm stop then RESET the boiler 2-) IF problem persist Call for authorised service Attention: Only authorised service must perform Au-To calibration
E 88	Fault of electronic gas valve managing circuit	Boiler does not work, E88 error code flashing on the screen	> Cabling disconnections > Gas valve failure	1-) Reset & Restart boiler 2-) Call for authorised service.
E 89	Problem on combustion feedback signal	Boiler does not work, E89 error code flashing on the screen	> Aging or rust on the electrode > Recirculation on fluegas path > Blokage on flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure	1-) Reset & Restart boiler 2-) Call for authorised service.
E 90	Unable to regulate combustion	Boiler does not work, E90 error code flashing on the screen	> Aging or rust on the electrode > Recirculation on fluegas path > Blokage on flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure	1-) Reset & Restart boiler 2-) Call for authorised service.
E 92	Air compensation active	Boiler does not work, E92 error code flashing on the screen	> Possible wind precence > Aging or rust on the electrode > Recirculation on fluegas path > Blokage on flue or wrong flue > Electrode position > Combustion calibration > Min power adjustment	1-) Reset & Restart boiler 2-) Call for authorised service.
E 93	Unable to regulate combustion (temporarily)	Boiler does not work, E93 error code flashing on the screen	> Aging or rust on the electrode > Recirculation on fluegas path > Blokage on flue or wrong flue > Electrode position > Combustion calibration > Gas valve failure > Electronic board	1-) Reset & Restart boiler 2-) Call for authorised service.
E 94	Possible low gas pressure or exhaust recirculation	Boiler does not work, E94 error code flashing on the screen	> Gas inlet pressure LOW > Recirculation on fluegas path > Blokage on flue or wrong flue > Aging or rust on the electrode > Electrode position > Combustion calibration > Gas valve failure > Electronic board	1-) Reset & Restart boiler 2-) Call for authorised service. Attention: Only authorised service must perform Au-To calibration
E 95	Intermittent combustion value	Boiler does not work, E95 error code flashing on the screen	> Harness on electrode and earth > Aging or rust on the electrode > Electrode position > Combustion calibration	1-) Reset & Restart boiler 2-) Call for authorised service.
E 96	Flue or air suction way blockage	Boiler does not work, E96 error code flashing on the screen	> Blokage on flue > Blokage on air suction path	1-) Reset & Restart boiler 2-) Call for authorised service.
E 98	SW error, board start-up error fault	Boiler does not work, E98 error code flashing on the screen	> Boiler software problem	1-) Reset & Restart boiler 2-) Call for authorised service.
E 99	Generic fault	Boiler does not work, E99 error code flashing on the screen	> Boiler electronic hardware problem	1-) Reset & Restart boiler 2-) Call for authorised service.



⁽¹⁾ Call the Authorized Service if failure continues.
(2) 81 numbered failure corresponds any blocking in the exhaust gas pipe. In such case, you should consult the authorized service technician before re-starting the combi boiler.

2.3.2. Filling/Emptying Radiator Installation

Ensure that the pressure reaches to 1-1,5 bar in the Manometer indicated with G symbol by rotating the Fill Tap counter clockwise that is indicated with F symbol in Lower View Figure 7 for filling the closed circuit radiator installation after installation of the and close the Filling Tap by rotating clockwise and discharge air of radiators via air discharge valves.

Combi boiler safety valve discharge should be connected to a discharge

Otherwise, safety valve shall be activated and manufacturer shall not be responsible due to water discharge to the place of device.

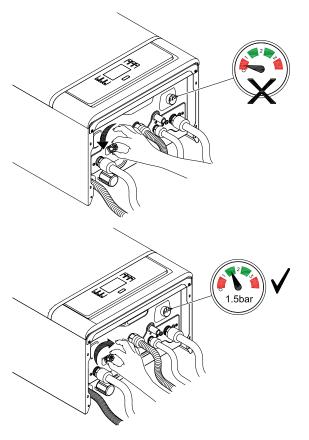


Figure 10 Filling the boiler

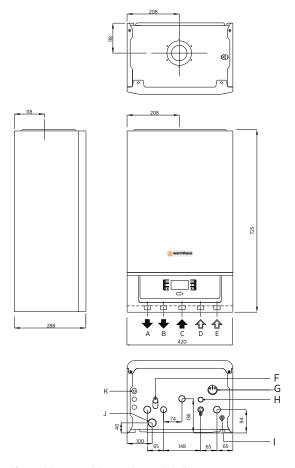


Figure 11 Enerwa and EnerwaPlus combi boiler dimensions and connections

Warmhaus Enerwa Plus / Enerwa

- A: Central heating flow
- B: Domestic hot water outlet
- C: Gas inlet
- D: Domestic hot water inlet
- E: Central heating return
- F: Filling valve
- G: Manometer
- H: Pressure relief valve outlet
- I: Drain point
- J: Condansate drain K: 230V 50HZ AC

2.4. RECOMMENDATIONS FOR ECONOMICAL USE OF COMBI BOILER

Your combi boiler is adjusted at ECO mode for economic use, we recommend not to change.

Correct Capacity Selection

Heat loss calculation of the combi boiler location should be made correctly and combi boiler capacity should comply with this calculation. Devices not having adequate capacity shall give late responses to heating requests, devices with higher capacity may cause discomfort and more fuel consumption as they more frequently opened and closed. Therefore, combi boiler capacities should be selected according to the place used.

Insulation

Insulation of your building is the most important item reducing the heat loss and gas consumption. However, as your combi boiler has the highest thickness insulation of its class, heat loss is minimized.

Radiators

Ensure balancing our pressure distribution of your radiator installation within the house by making reduction adjustments from radiator valves. Placing furnitures in front of radiators prevents air circulation and causes discomfort and more fuel consumption. Reducing radiator valves of rooms not used for a long period or if thermostatic radiator valve is used, bringing to the lowest position then, closing room doors will provide saving.

Domestic Hot Water

Always adjust the domestic hot water temperature as $(38-42\,^{\circ}\text{C})$. Adjustment of temperature adjuster as low ensures a considerable power saving. In addition, high domestic hot water temperatures cause strong calcification and that negatively affects operation of the device (for instance, longer heating periods, less flow rate).

Thermostatic Radiator Valves

You can both acquire savings and comfort by balancing the heat distribution among the house by using Thermostatic Radiator Valves.

Room Thermostats

Your combi boiler will operate more economically as you will have the chance to adjust requested room temperature according to comfort and economy timings via room thermostats. Thus, you can adjust temperature of your room as you wish, and also you can acquire approximately 6% power saving with every degree of temperature decrease.

Ventilation

Do not leave windows slightly open for ventilating room/rooms. In such case, continuous heat loss will occur and not having any certain improvement in the room air.

Fully opening windows for a short period provides a better result. Bring thermostatic radiator valves to lowest position when ventilating rooms.

Cleaning And Maintenance

Attention: to preserve the boiler's integrity and keep the safety features, performance and reliability, which distinguish it, unchanged over time, you must at least execute maintenance operations on a yearly basis in compliance with what is stated in the relative point at "annual check and maintenance of the appliance", in compliance with national, regional, or local standards in force.

We recommend stipulating a yearly cleaning and maintenance contract with an authorised local firm.

2.5. ISSUES REQUIRED TO BE TAKEN INTO CONSIDERATION FOR WARRANTY CONDITIONS

This warranty given by WARMHAUS does not cover elimination of failures arising from abnormal use of the product and also out of the warranty scope for below given situations

- 1. Damages and failures occurring in devices which are not first started by Warmhaus Authorized Services,
- **2.** Damages and failures arising from use of the product contrary to items given in User's Manual and using out of its intended purpose.
- 3. Damages and failures arising from wrong type selection,
- **4.** Damages and failures arising from maintenance and repairs performed by persons other than our Authorized Services,
- **5.** Damages and failures occurring due to transportation, unloading, loading, storing, external physical (Crushing, scratches, fractures) and chemical factors following delivery of the Product.
- 6. Damages and failures arising from fire and lightning,
- 7. Damages and failures arising from false fuel use and fuel characteristics,
- 8. Low or excessive voltage; unearthed socket usage;
- 9. Damages and failures arising from faulty electricity installations,
- **10.**Damages and failures arising from failing to perform timely annual maintenance and cleaning,
- 11. Defined periodical maintenance operations by our Authorized Services,
- 12. Damages and failures those may occur in the device or usage area due to other products and accessories used in a system with the device subject to the Warranty,
- **13.**Damages and failures arising from frost/icing or occurring due to using in the outdoor places (open balcony, etc.).
- 14. Altering the Registry Label and Warranty Certificate,
- **15.**Damages and failures arising from using water out of the water values defined in device user's guide,

Elimination of above mentioned failures shall be performed against payment.

Our distinguished customer,

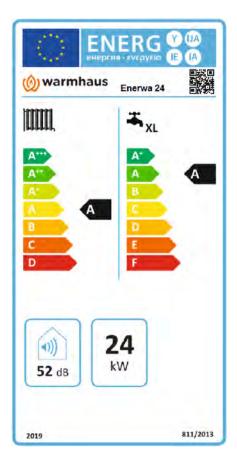
we believe the importance of providing good products to you as well as rendering good services.

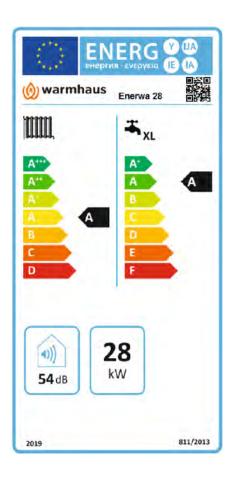
Recommendations and Data to be Followed:

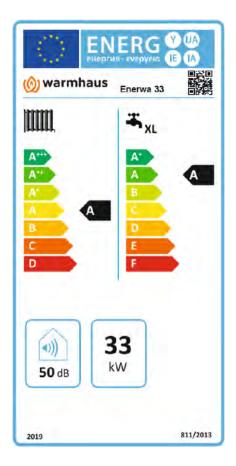
- 1. When first start of your combi boiler is done, please keep the technical service document given by the Aythorized Service and a copy of device invoice and the Warranty Document approved by your Authorized Dealer.
- **2.** Use your product according to principles of installation and operation guide.
- **3.** Keep the "SERVICE DOCUMENT" if received from your service technician following the service taken. The Service Document will be beneficial for you in any problems those may occur in your device in the future.

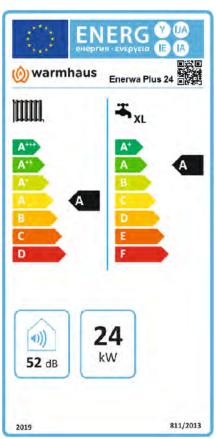


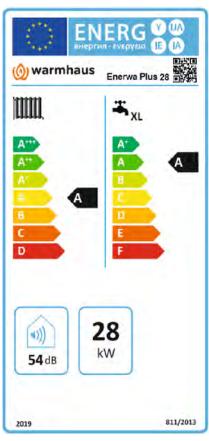
TECHNICAL DATA	UNIT					WARMHAUS									
				24/31 & Plus 24/31				28/35 & Plus 28/35		Enerwa 33/39 & Enerwa Plus 33/39					
Gas Circuit / Type		G20	G25	G30	G31	G20 G25 G30 G31			G31	G20 G25 G30			G31		
Gas Connection	mm (in)	G20		3/4")	631	620		3/4")	931	G20		3/4")			
Gas Supply Pressure	mbar	20	25	30	37	20	25	30	37	20	25	30	37		
Gas Consumption at Maximum	m³/h	2,38	2,85	0,728	0,92	3,05	3,47	0,857	1,18	3,402	4,127	0,992	1,302		
Gas Consumption at Minimum	m³/h	0,37	0,43	0,107	0,11	0,397	0,456	0,109	0,144	0,434	0,524	0,133	0,168		
Premix System		,	Gas A	daptive			Gas A	daptive	,		Gas A	daptive	1		
Modulation Range		01:10						1:10				:10			
Heat Exchanger Material			Stainle	ess steel				ess steel			Stainle	ss steel			
Efficiency		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31		
(80/60 °C) Efficiency at Maximum Heat Output	%	98,03	97,84	97,48	97,76	97,88	98,15	97,57	98,59	98,00	98,23	97,61	98,04		
(50/30 °C) Efficiency at Maximum Heat Output	%	105.11	105,34	101,95	103,63	105.0	105,2	102,89	104,67	105,4	105,53	103,06	105,43		
Efficiency at 30% load at 36/30 °C	%	108,29	108,38	104,28	108,29	107,54	107,83	105,37	107,36	107,2	107,06	104,62	106,98		
Seasonal Space Heating Energy Efficiency (ηs) (Class) (expressed in terms of GCV)	%		92 (C	lass A)			92 (C	lass A)			92 (Cl	lass A)			
Radiator Circuit		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31		
Flow & Return Connection	mm (in)	020		3/4")	031	020		3/4")	031	020		3/4")			
Maximum heat input Qn	kW	24,25	24,25	24,25	24,25	28,7	28.7	28,7	28,7	33,7	33,7	33.7	33,7		
Minimum heat input Qn	kW	3,5	3,5	3,5	2,8	3,75	3,75	3,75	3.75	4,35	4,35	4,35	4,35		
Maximum Heat Output Pn (80/60 °C)	kW	23,7	23,7	23,6	23,7	28	28	28	28	33,02	33,02	32,8	33,02		
Minimum Heat Output Pn (80/60 °C)	kW	3	3	3,2	2,5	3,5	3,5	3,25	3,45	4,1	4,1	4,1	4,1		
Maximum Heat Output Pn (50/30 °C)	kW	25	25	24,70	25	30	30	29,5	30	35,5	35,5	34,7	35,5		
Minimum Heat Output Pn (50/30 °C)	kW	3,6	3,6	3,55	2,9	3,90	3,90	3,74	3,59	4,60	4,60	4,60	4,60		
Temperature selection range (min÷max) high temperature	°C		25	÷80			25	÷80			25-	÷80			
Temperature selection range (min÷max) low temperature	°C		25	÷47			25	÷47			25	÷47			
Operating Pressure (Maximum)	bar			3				3			:	3			
Operating Pressure (Minimum)	bar		C),5			C),5			0	,5			
Expansion tank useful volume	bar			8			1	0			1	0			
Pump pressure (at 1000 I/h flow rate)	mH ₂ O		5	5.5			6	i.0			6	.0			
Pump pressure (at 500 l/h flow rate)	mH ₂ O		6	5.2			7	7.6		7.6					
Max. Pump Flow Rate	I/h		23	300		2300				2300					
Pump Energy Efficiency Index (EEI)			≤ (0,20		≤ 0,20				≤ 0,20					
Domestic Hot Water Circuit															
DHW & Cold Connection	mm (in)		15 (1/2")		15 (1/2")			15 (1/2")						
Maximum DHW Heat Input	kW			1.15		35				38,8					
Minimum DHW Heat Input	kW			3,5		3,75				4,35					
Max. Domestic Hot Water flow rate (Δt: 35 °C)	I/min.			2,76		14,33				14,33					
Max. Domestic Hot Water flow rate (Δt: 30 °C)	I/min.		14	4,8		16,80				19,00					
Min. Domestic Hot Water flow rate (for the DHW function activation)	I/min.		1	1,5		1,5				1,5					
Maximum water pressure	bar		1	10		10				10					
Minimum water pressure	bar		(),5		0,5				0,5					
Temperature adjustment range	°C		35	- 60			35	- 60		35 - 60					
Electricity Circuit															
Electricity Supply	V AC-50Hz		230 V +	%10; -%15			230 V +	%10; -%15			230 V +9	V +%10; -%15			
Electricity Consumption (Max./Min.)	Watt		95	/ 55		104 / 60				115 / 65					
Protection Index	IP		IP)	X5D		IPX5D					IP>	(5D			
Exhaust Gas Circuit		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31		
(80/60 °C) Exhaust gas temperature (Min. / Max.)	°C	69 /71	65 / 70	57 / 70	60 / 70	61 / 66	55 / 65	57 / 67	58 / 65	57 / 62	57 / 62	54 / 67	58 / 67		
(50/30 °C) Exhaust gas temperature (Min. / Max.)	°C C	49 / 51	48 / 49	43 / 57	47 / 51	45 / 45	44 / 44	42 / 50	43 / 45	47 / 44	47 / 45	41 / 48	49 / 49		
Maximum exhaust gas temperature [Maximum DHW mode]	ōС		7	70			7	70			7	0			
NOx	Class			6				6			1	6			
Weighted value of Nox (GCV)	mg/kWh	20	19	42	31	41	31	43	49	34	32	43	53		
Flue mass flow rate (60/80°C - Qn) Nominal/Minimum	g/s	10,32 / 1,6	10,78 / 1,62	10,58 / 1,26	9,91 / 1,18	13,23 / 1,72	13,13 / 1,73	12,29 / 1,56	12,71 / 1,62	14,76 / 1,88	15,54 / 1,97	14,28 / 1,97	14,03 / 1,81		
Flue mass flow rate (60/80°C - Qn) [Maximum DHW mode]	g/s	14,01	14,04	13,58	12,71	15,53	15,82	14,91	14,65	18,36	18,54	17,00	16,65		
Fan head loss	Pa		35 -	÷ 140	I		35 ÷	÷ 140			35 ÷	- 140	1		
General															
Dimensions (H x W X D)	mm		725 x 4	20 x 288			725 x 4	20 x 288			725 x 42	20 x 288			
Condensate Connection	mm			1.5		21.5					2	1.5			
Sound Level	dB(A)		į	52		54				50					
Hydraulic Group Material			Br	rass			Br	ass			Br	ass			
Net Weight	kg		3.	2,5			33	3,7			34	1,5			
Packed Device Weight	kg		3-	4,7			35	5,9			36	5,7			
Туре					C ₁₃ , C ₃	3, C ₄₃ , C ₅₃ , C	₆₃ , C ₈₃ , C ₉₃ , (C ₁₀₃ , B ₂₃ , B _{23P}	, B ₃₃ , B _{33P} , B	₅₃ , B _{53P}					
Category		C ₁₃ , C ₃₃ , C ₄₃ , C ₅₃ , C ₆₃ , C ₆₃ , C ₉₃ , C ₁₀₃ , B ₂₃ , B ₂₃ , B ₂₃ , B ₃₃ , B ₅₃ , B													

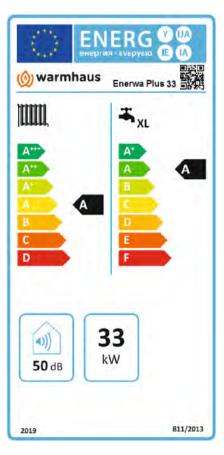












		F	Product FICHE &	ErP Data					
		Manufact	urer	Type-model / Techi	nical data	Mark (s) of conformity granted			
ErP Data		Warmhau	ıs	Enerwa / Enerwa P	lus boilers				
ErP & Product Fiche for Warmhaus boilers has been te	sted an	d reported	on SZU Test / BRNO	given bellow;					
PRODUCT FICHE (according to EU regulation No 811/	2013 an	d 814/201	3)						
			Enerwa 24 Enerwa Plus 24	Enerwa 24 Enerwa Plus 24	Enerwa 28 Enerwa Plus 28	Enerwa 33 Enerwa Plus 33	Enerwa 33 Enerwa Plus 33		
Space heating - Temperature application	ace heating - Temperature application		High / Medium / Low	High / Medium / Low	High / Medium / Low	High / Medium / Low	High / Medium / Low		
Water heating - Declared load profile	Water heating - Declared load profile		L	XL	XL	XL	XXL		
Seasonal space heating energy efficiency class			A	A	A	A	A		
Water heating energy efficiency class			A	A	A	A	В		
Rated heat output (Prated or Psup)		kW	24	24	28	33	33		
Space heating - annual energy consumption	Q _{HE}	GJ	42,14	42,14	48,77	54,78	54,78		
		kWh (*)	26	37	34	39	42		
Water heating - Annual energy consumption		GJ (**)	11	18	18	18	23		
Seasonal space heating energy efficiency		%	92	92	92	92	92		
Water heating energy efficiency		%	81	84	83	84	82		
Sound power level LWA indoors		dB	52	52	54	50	50		
Option to only operate during low demand periods -			-	-	-	-	-		
Specific precautions for assembly, installation and maintenance	A	Before any assembly, installation or maintenance the user and installation manual has to be read attentively and to be followed							
All the data that is included in the product information listed elsewhere may result in different test conditions.							duct information		
(*) Electricity									
(**) Fuel									

HANDING OVER

After completing the installation and commissioning of the system the installer should hand over to the householder by the following actions:

- 1. Make the householder aware that the user instructions are located in the pocket in the drop down door and explain his/her responsibilities under the relevant national regulations.
- 2. Explain and demonstrate the lighting and shutting down procedures.
- 3. The operation of the boiler and the use and adjustment of all system controls should be fully explained to the householder, to ensure the greatest possible fuel economy consistent with the household requirements of both heating and hot water consumption. Advise the User of the precautions necessary to prevent damage to the system and to the building, in the event of the system remaining inoperative during frosty conditions.
- 4. Explain the function and the use of the boiler heating and domestic hot water controls.

Explain that due to system variations and seasonal temperature fluctuations DHW flow rates/temperature rise will vary, requiring adjustment at the draw off tap. It is therefore necessary to draw the users attention to the section in the Users Instructions titled "Control of Water Temperature" and the following statement: "Additionally, the temperature can be controlled by the user via the draw-off tap: the lower the rate the higher the temperature, and vice versa".



ErP D	ATA (a	ccording	to EU regulatio	n No 813/2013 a	and 814/2013)		
			Enerwa 24 Enerwa Plus 24	Enerwa 24 Enerwa Plus 24	Enerwa 28 Enerwa Plus 28	Enerwa 33 Enerwa Plus 33	Enerwa 33 Enerwa Plus 33
Water heating - Declared load profile			L	XL	XL	XL	XL
Reated Heat Output	Prated	kW	24	24	28	33	33
Useful heat output at rated heat output and high temperature regime (2)	P ₄	kW	23.7	23.7	28	33	33
Useful heat output at 30% of rated heat output and low temperature regime (1)	P ₁	kW	4.16	4.16	4.87	5.71	5.71
Seasonal Space Heating Energy Efficiency	ηs	%	92	92	92	92	92
Useful efficiency at rated heat output and high temperature regime(2)	η_4	%	87.57	88.02	88.12	88.21	88.21
Useful efficiency at 30% of rated heat output and low temperature regime(1)	η	%	97.48	98.20	96.82	96.87	96.87
Auxiliary Electricity Consumption							
Full load	elmax	kW	0.43	0.43	0.46	0.54	0.54
Part load	elmin	kW	O.11	O.11	0.12	0.12	0.12
Standby mode	P _{SB}	kW	0.005	0.005	0.005	0.005	0.005
Other Items							
Standby heat loss	P _{Stby}	kW	0.057	0.057	0.057	0.057	0.057
Ignition burner power consumption	P _{ign}	kW	0.000	0.000	0.000	0.000	0.000
Space heating - annual energy consumption	Q _{HE}	GJ	42.14	42.14	48.77	54.78	54.78
Sound power level, indoors	L _{WA}	dB	52	52	54	50	50
Emissions of nitrogen oxides	NO _x	mg/kWh	20	20	41	34	34
Domestic Hot Water Parameters							
Declared Load Profile			L	XL	XL	XL	XXL
Daily electricity consumption	Q _{elec}	kWh	0.117	0.169	0.157	0.177	0.190
Annual electricity consumption*	AEC	kWh	26	37	34	39	42
Water Heating Energy Efficiency	h _{wh}	%	81	84	83	84	82
Daily fuel consumption	Q _{fuel}	kWh	14.809	23.152	23.615	23.078	29.317
Annual fuel consumption	AFC	GJ	11	18	18	18	23
Condensing boiler		-	Yes	Yes	Yes	Yes	Yes
Low temperature boiler		=	Yes	Yes	Yes	Yes	Yes
Combi Boilernation boiler		=	Yes	Yes	Yes	Yes	Yes
B1 Boiler		=	No	No	No	No	No
Room boiler with combi boilerned heat and power		=	No	No	No	No	No
Auxiliary boiler		-	No	No	No	No	No
Brand Name	Warmha	aus					
Manufacturer adress			e Sogutma Sistemleri nayi Bolgesi Selvi Cad		/Turkey		
			ons for assembly, insignormal operating and instal		nance are described i	in the operating and ir	nstallation manual.
Warnings 🚹	Read an		operating and instal	lation manual regard	ling assembly, install	ation, maintenance, re	moval, recycling
* for avarage climatic conditions							

(1) Low temperature means for condensing boilers 30 °C, for low temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(2) High temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

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ENERWA & ENERWAPLUS

G COMBI BOILERS

Enerwa & Enerwa Plus User Manual-INT Code: 15011606000149 Revizion Number: ROO/09.2022

