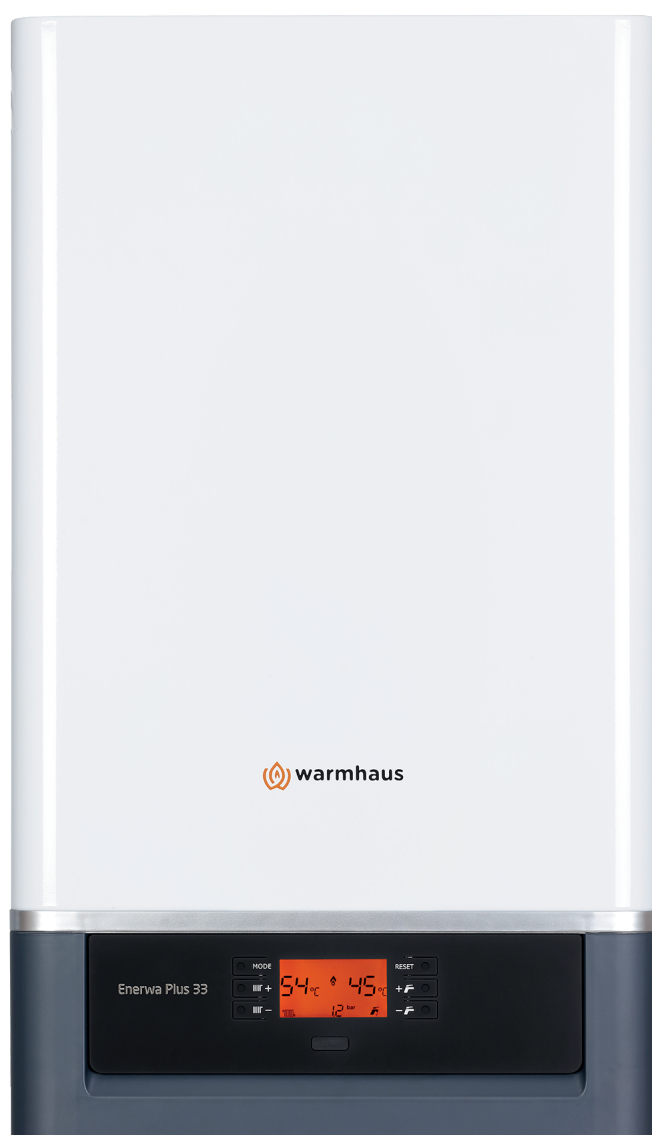


ENERWA PLUS 42/40 ENERWA PLUS 45/43

CONDENSING COMBI BOILERS
USER MANUAL

Enerwa Plus 42/40

Enerwa Plus 45/43



0001_00.W171221



Our company constantly striving to improve our products and reserve the right to modify the details given in this documentation at any time without notice.



These instructions are only meant to provide customers with user information regarding the appliance.



This boiler is not designed to be used by persons (including children) with limited mental and sensory capabilities or by persons who do not have enough experience and/or knowledge, unless they are supervised by a person who is responsible for their safety or they have been instructed by him/her about how to use the boiler. Children must be supervised to ensure that they do not play with the boiler.

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1. INTRODUCTION

Warmhaus was established in 1996 and is an affiliate of Beycelik Holding which produces panel radiators, high capacity wall hung condensing boilers and steel panel radiators. Beycelik Holding has also branches in automotive, energy, tourism and insurance and currently provides employment opportunities for almost 5.000 people.

We thank you for choosing the Warmhaus boiler to maintain your heating and domestic hot water comfort for long years. Warmhaus products are manufactured in accordance with EU standards and exported to many countries.

1.1. GENERAL WARNINGS

This book should be carefully protected and referred to when necessary, as it contains important information regarding operation of the product.

Please read these instructions fully before operating the appliance:



Radiator and DHW (Domestic Hot Water) installations should be performed by a competent and certified engineering company in accordance with legal regulations in force.



This appliance must only be installed by a competent Gas Safe registered engineer and if in Ireland an RGI (Registered Gas Installer) and failure to adhere to this could lead to prosecution.



In order to enable use of the boiler with LPG bottles or LPG tanks, conversion of the boiler should be performed by our authorised 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



Manufacturer company cannot be held responsible for injury of people, other living things (animals, plants) or damage to properties due to installation by unauthorised people.

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.



The intended use for this appliance is to heat water and supply DHW in domestic premises.

Always refer to the appliance data badge for correct specifications and ensure the boiler is operating within the safety settings outlined by Warmhaus.

The installation of the appliance and controls must be done in accordance to the current Gas Safety (Installation and Use) Regulations



Any intervention on a sealed component is forbidden.



Maintenance and repairment of the appliance must only be carried out by a competent Gas Safe registered engineer and if in Ireland an RGI (Registered Gas Installer)



Children must not operate the boiler.

Boilers bear CE mark in accordance with below given directives:

- Gas Appliances Directive 2009/142/EC
- Boiler Efficiency Directive 92/42/EEC
- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU

Manufacturer: WARMHAUS Isıtma ve Soğutma Sistemleri Tic. A.Ş. Bursa İşıktepe OSB Mah. Park Cad. No:10 16140 Nilüfer-Bursa / Türkiye

WARMHAUS

Warmhaus Authorised 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.



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

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

IF YOU SMELL GAS:



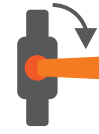
Do not use lighters / matches, do not smoke.



Do not operate electric switches or unplug any appliances.



Ventilate the environment and prevent people from entering the property



Turn off the gas supply at the gas meter or an appropriate emergency control valve



Do not use the door bell.



Do not use mobile phones



Immediately evacuate the place



Call the National Gas Emergency Service



Do not make any intervention on installation.



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

0002_02.W180201

DURING EMERGENCIES



NATURAL GAS EMERGENCY



FIRE DEPARTMENT



AMBULANCE



POLICE

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

Advice: Please take note local emergency phone numbers.

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2. USER'S SECTION

2.1. GENERAL WARNINGS FOR USER

2.1.1. Use of boiler

Perform below given controls prior to use:

- Ensure that radiator/heating system, tap water and gas valves located in your boiler are open, the heating system pressure is between 1 - 1,5 bar and system air is discharged,
- Gas is available in your gas line (you can control by igniting one of your gas ovens),
- Make sure there are no combustible materials within the immediate vicinity of the appliance or any corrosive chemicals that can damage the appliance.
- If a room thermostat or control device is connected, ensure that it is at ON position.

Our boiler has a built in frost protection (as long as the appliance is ON and gas provided) for the system water contained within the boiler only, so provisions need to be installed to protect the system pipe work in unheated areas.

Turn OFF the boiler before any maintenance and repair action.

Follow below given main rules:

- Do not clean external frame of boiler while is functioning and do not use easily flammable materials.
- Do not touch electricity cables.
- In case cables are damaged, the boiler and fuse switches and do not use the boiler.
- Electrical cables of boiler and its accessories should be replaced by the Authorised Service.

Safety:

In your own interest, and that of safety, it is the law that this boiler must be installed by in accordance with the current Building Regulations and reference should be made to the current rules for electrical installation.

It is essential that the instructions in this booklet are strictly followed, for safe and economical operation of the boiler.

Important Notes:

- This appliance must not be operated without the casing correctly fitted and forming an adequate seal.
- If the boiler is installed in a compartment then the compartment MUST NOT be used for storage purposes.
- If it is known or suspected that a fault exists on the boiler then it MUST NOT BE USED until the fault has been corrected by a Gas Safe Registered Engineer.
- Under NO circumstances should any of the sealed components on this appliance be used incorrectly or tampered with.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety.

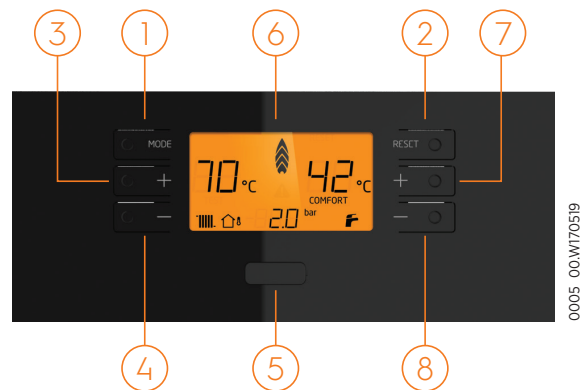


Figure 1 Control panel of Enerwa Plus Combi Boiler

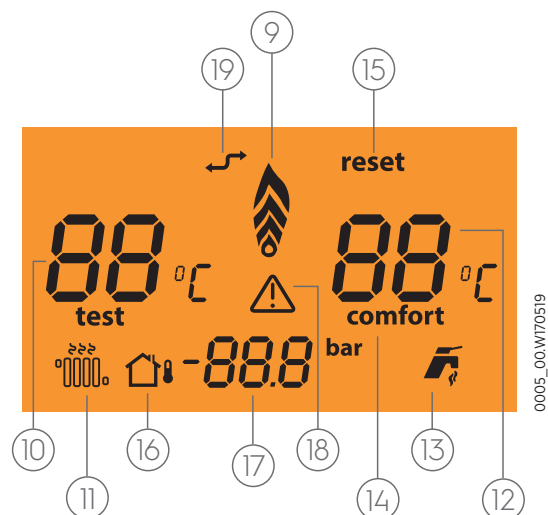


Figure 2 Control Panel with Touch Screen of Enerwa Plus

- | | |
|---|--|
| 1. MODE , selection button. | 12. Domestic Hot Water temperature. |
| 2. RESET button. | 13. Domestic Hot Water operating indicator. |
| 3. Radiator (CH) water temperature increasing button. | 14. Comfort mode operation. |
| 4. Radiator (CH) temperature decreasing button. | 15. Failure status RESET requirement. |
| 5. Service port. | 16. External Weather Temperature Sensor connection indicator |
| 6. Digital display screen. | 17. Digital manometer |
| 7. Domestic Hot Water temperature increasing button. | 18. Failure indicator. |
| 8. Domestic Hot Water temperature decreasing button. | 19. Room thermostat (OpenTherm-OT) connection indicator |
| 9. Flame modulation indicator | |
| 10. Radiator (CH) water temperature. | |
| 11. Radiator (CH) mode operating indicator. | |

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

RESET: It is used for resetting the failure (if temporary) re-starting the boiler

MODE: Used for Winter/Summer/OFF mode adjustment.

Operating modes and related notifications:

OPERATING MODES EXPLANATIONS:

- **OFF**
- **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.

CH	: Central Heating
DHW	: Domestic Hot Water

2.1.2. On/Off/Stand-by 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.



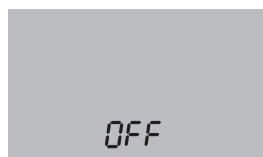
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When the boiler is started for the first time, screen displays nG letter and then a number (for instance 25) indicating kW power of the device.



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Then, OFF letter is displayed,



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and LCD screen backlight is turned OFF. Now, boiler is at STANDBY position.

2.1.3. Operation in Winter Mode

In winter mode, 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 1 Domestic Hot Water temperature adjustment is made with (6) and (7) numbered buttons and this temperature is indicated with (9) numbered indicator for Radiator (CH) and with (11) numbered indicator for Domestic Hot Water.



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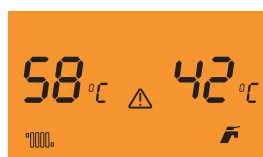
In such case, combi boiler initially gets into Radiator position, its symbol flashes on the left bottom corner of screen and tap symbol is seen at right bottom corner. A digital manometer indicating the system pressure is located at lower middle section of the screen and also existing radiator system temperature is seen on the screen at the same time and screen light is turned off.

When boiler is started, flame modulation symbol is seen at the middle section of the screen. At that position, you can increase and decrease the temperature with CH temperature adjustment buttons (see. Figure 1) (3) between 35 - 80 °C, screen lights when buttons are pressed and °C symbol flashes besides the CH temperature value.



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If you have a floor heating system, as our Authorised Service adjust your boiler for “**Low Temperature Operation**”, maximum temperature shall be limited with the Radiator (CH) temperature adjustment button (3) (e.g. maximum 47 °C).



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Domestic Hot Water Adjustment at Winter Position; You can adjust the hot tap water temperature value between 35 -60 °C with (6) and (7) numbered buttons under the RESET button. LCD screen backlight is turned ON during temperature change, °C and symbol flashes besides the DHW temperature value. LCD screen backlight is turned OFF after adjustment.

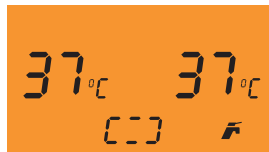
2.1.4. Operation in Summer Mode

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



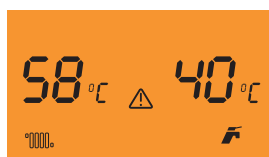
0007_00.W160721

If you are starting the combi for the first time hold **MODE** button, and release the button after the cycle [] is completed on the screen, initially boiler switches to radiator position, its symbol [] will flash on left top corner of the screen existing radiator installation temperature and screen light will turn off.



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In order to summer mode hold **MODE** button and release the button after completion of cycle [] on the screen. At that position, symbol [] flashes at right bottom corner of the screen and existing tap water temperature will be seen on the screen and LCD screen backlight is turned OFF.



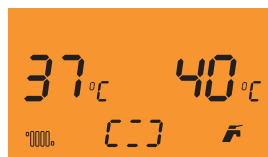
0013_00.W160721

In this mode you can adjust the Domestic Hot Water temperature between 35 – 60 °C with (7) [+] and (8) [-] numbered buttons.

LCD screen backlight is turned ON during temperature change, °C symbol flashes besides the DHW temperature value. Adjustment value is confirmed after backlight is turned OFF following the adjustment.

2.1.5. Shutting off the Boiler

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



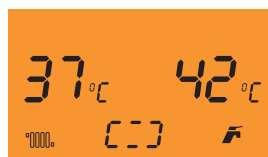
0014_00.W160721

Press and hold **MODE** button and release the button after cycle on the screen [] is completed, **OFF** will be displayed on the screen, backlight is turned OFF, now the boiler is in OFF mode.



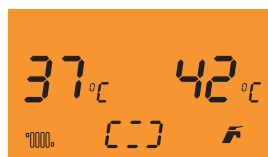
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To set the boiler to **OFF** mode while it is in **WINTER**;



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Press and hold **MODE** button and release the button after cycle on the screen [] is completed, boiler will switch to **SUMMER** mode.



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Then, when the same transaction is repeated, after cycle is completed **OFF** will be displayed on backlight is turned OFF boiler is now at **STANDBY** position.

2.2. USE WITH ROOM THERMOSTAT (OPTIONAL)


This product can be used together with a room thermostat which can be purchased separately as an accessory. All Warmhaus thermostats can be connected with dual-wired cables. Carefully read user's and installation instructions given in the Accessory set. When connected to a room thermostat, the appliance can be operated based on requested room temperature. With certain models of control units, you may run your boiler on a daily / weekly programme.


General Utilisation Type

- Please consult our authorised services for room thermostats compatible with Warmhaus boilers.
- Do not remove device components during operation.
- Do not place the boiler in 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 unauthorised 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 Authorised Service. The dual cable required for installation is supplied by the dealer/consumer.

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.

 Room thermostat should be installed at 1,50 m height from ground.

 At least 30 cm distance should be available from doors and windows open for air circulation.

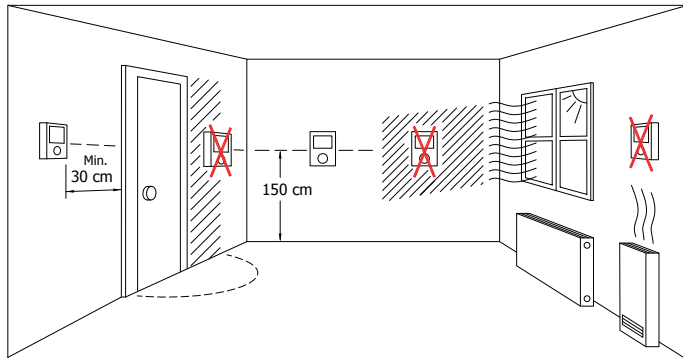


Figure 3 Thermostat position

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2.3. USE OF OUTSIDE TEMPERATURE SENSOR (OPTIONAL)

This product can be used together with a Outside Temperature Sensor which can be purchased separately as an accessory.

When connected to a Outside Temperature Sensor, the appliance runs with reference to the weater temperature, based on selected heating curve. Available heating curves are given in figure 5.

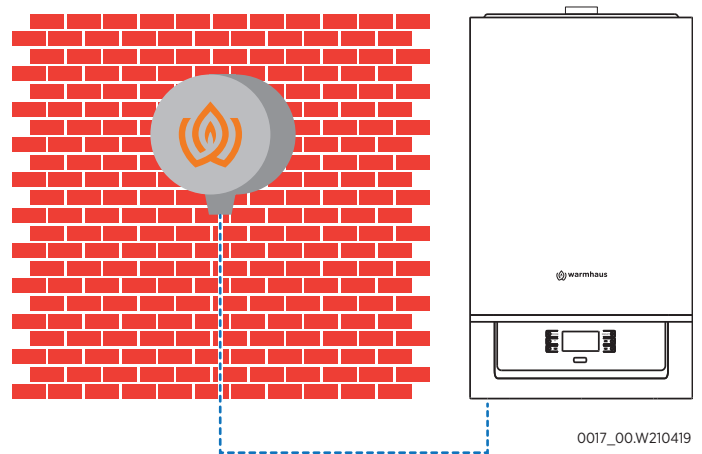


Figure 4 Boiler controlled by Outside Temperature Sensor

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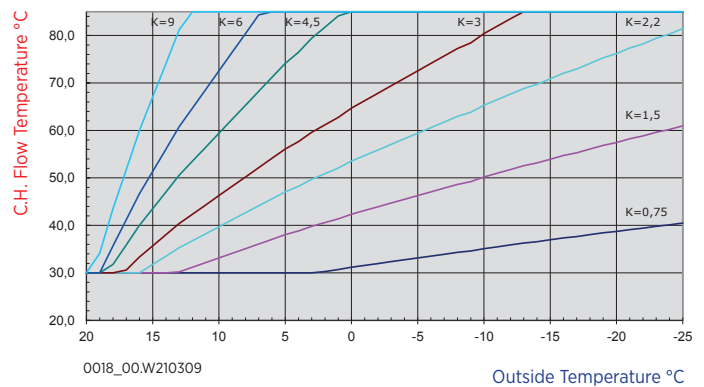


Figure 5 Heating curves for Outside Temperature Sensor

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2.4. CUSTOMIZING BOILER FEATURES

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

(P07) Power Ramp-Up Time.

When boiler starts, there's a ramp-up time for reaching requested power from minimum power and this is set as 10 minutes as default. This value can be set from 0 to 80 corresponding to 0 - 800 seconds.

(P08) Central Heating Power.

The maximum Central Heating power can be adjusted by this parameter.

(P21) Low temperature region selection.

This parameter should be adjusted as 1 for ground heating or heating systems operating with low temperature. 0 (zero) value is selected for radiator systems to operate at high temperatures as standard.

(P24) Child Protection

This feature is disabled as default factory setting (0). Child Protection (key-lock) is enabled when parameter is adjusted to 1. Keys are locked after 2 minutes following use when the feature is enabled. Key-lock is released when the MODE button is hold until cycle is completed for getting off the child protection

For other functions / parameters to customize your boiler, please refer to the installation & service manual.

Deaeration Function

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 Deaeration 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 of deaeration time: 12 minutes.



Figure 6 Ending the deairation function

0019_00.W210419

2.5. TROUBLESHOOTING

Error Code	Description of the Error	Malfunction	Probable Cause	Solution(s)
E 01	Intervention of exhaust Thermostat	Boiler does not work, E01 error code flashing on the screen	> Flue Sensor faulty	1) Reset & Restart boiler 2) Call for authorised service
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 too low	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 LCD Screen 3) Reset & Restart boiler 4) If problem persist Call for authorised service
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 (> 2,8 bar)	1) First check the filling tap of the boiler and make sure it is closed. 2) During boiler operation, the safety valve may continue to drain water so make sure that it is connected to a drain line. 3) If your plumbing line has a drain cock; first turn the boiler off and let the pressure drop to 1-1.5 bar, then switch it on again. 4) If the pressure increase occurs again, call an authorised service.
E 04	Domestic hot water temperature sensor faulty	Boiler does not work in DHW mode but still operational in 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 & Restart the boiler 2) Call for authorised service if problem persists
E 06	No ignition	Boiler does not work, E06 error code flashing on the screen	> Gas supply failure	1) Reset & Restart the boiler 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. Minimum 3 meters of radiator must be open 4) RESET boiler and check if problem is resolved. 5) Call for authorised service
E 07	Safety thermostat intervention	Boiler does not work, E07 error code flashing on the screen	> Lack of water in the system > Pump blockage > Pump failure > Pump harness > Installation blockage	1) RESET boiler check if problem is resolved 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. Minimum 3 meters of radiator must be open 4) RESET boiler and check if problem is resolved 5) Call for authorised service
E 08	Flame circuit failure	False flame signal from combustion or electrode	> Condensate Syphon blocked > 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 in the system > Pump blockage > Pump failure > Pump harness > Installation blockage	1) RESET boiler at first check if problem is resolved. 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. Minimum 3 meters of radiator must be open 4) RESET boiler and check if problem is resolved 5) 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 between board and gas valve
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, E16 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
E 19	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 default value
E 20	CH vertemperature, 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 is resolved. 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. Minimum 3 meters of radiator must be open 4) RESET boiler and check if problem is resolve 5) Call for authorised service

Error Code	Description of the Error	Malfunction	Probable Cause	Solution(s)
E 21	Delta Temperature Central Heating flow and Return > TSP 82 value °C	Boiler does not work, E21 error code flashing on the screen	<ul style="list-style-type: none"> > Lack of water on the system > Pump blockage > Pump failure > Pump harness > Installation blockage 	<ol style="list-style-type: none"> 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. Minimum 3 meters of radiator must be open 4) RESET boiler and check if problem resolved 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	<ol style="list-style-type: none"> 1) Turn OFF the power of the appliance. Reset will be allowed after turning ON the power. 2) Check the root cause of Error to solve 3) If 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	<ol style="list-style-type: none"> 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 network. Value out of tolerance, 50 Hz +/- 5%	<ol style="list-style-type: none"> 1) Call for Electrical supply network provider 2) Error will remove if supply frequency 50 Hz +/- 5%
E 41	Loss of flame more than 6 successive times	Boiler does not work, E41 error code flashing on the screen	<ul style="list-style-type: none"> > Too many domestic hot water request in short period (1 min) > Low gas pressure 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1) Call For authorised service.
E 43	Opentherm Communication error	Boiler does not work, E43 error code flashing on the screen after 1 minute of communication error	Opentherm line disconnected	<ol style="list-style-type: none"> 1) Remove energy from boiler and re energize E43 will be removed and boiler & buttons will get back to functional 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 successfully then connection symbol will be activated on the screen 4) Call for authorised service to re connect opentherm connection
E 44	Cumulated intermittent ignition without reaching burner ignition.	Boiler does not work, E44 error code flashing on the screen	<ul style="list-style-type: none"> > Intermittent contacts on harness > Hammer effect on water net > Too many requests in short time 	<ol style="list-style-type: none"> 1) Reset & Restart boiler 2) Call for authorised service
E 62	Calibration request	Boiler does not work, E62 error code flashing on the screen	<ul style="list-style-type: none"> > Calibration not done > Replacing board but not service key from the old board (PCB) > Service key damaged or disconnected > Updating Software 	<ol style="list-style-type: none"> 1) Call For authorised 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 in position	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ul style="list-style-type: none"> > Gas inlet pressure > Aging or rust on the electrode > Recirculation of exhaust gas into fresh air > Blockage in flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure 	<ol style="list-style-type: none"> 1) Call for authorised service
E 78	Max regulation current value reached	Boiler does not work, E78 error code flashing on the screen	<ul style="list-style-type: none"> > Gas inlet pressure > Aging or rust on the electrode > Recirculation of exhaust gas into fresh air > Blockage in flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure 	<ol style="list-style-type: none"> 1) Call for authorised service

Error Code	Description of the Error	Malfunction	Probable Cause	Solution(s)
E 79	Min regulation current value reached	Boiler does not work, E79 error code flashing on the screen	<ul style="list-style-type: none"> > Gas inlet pressure > Aging or rust on the electrode > Recirculation on fluegas path > Blockage in flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure 	1) Call for authorised service
E 80	Problem on electronic gas valve driver	Boiler does not work, E80 error code flashing on the screen	<ul style="list-style-type: none"> > Electronic board > Gas valve failure 	1) 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	<ul style="list-style-type: none"> > Strong flue blockage > Combustion problem > Wrong flue > Gas inlet pressure > Aging or rust on the electrode > Recirculation of exhaust gas into fresh air > Electrode position > Combustion calibration 	1) 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	<ul style="list-style-type: none"> > Gas inlet pressure > Combustion problem 	1) If there is strong wind wait until the wind stop then RESET the boiler 2) IF problem persist Call for authorised service
E 87	Problem on electronic gas valve circuit	Boiler does not work, E87 error code flashing on the screen	<ul style="list-style-type: none"> > Cabling disconnections > Gas valve failure 	1) Call for authorised service
E 88	Fault of electronic gas valve managing circuit	Boiler does not work, E88 error code flashing on the screen	<ul style="list-style-type: none"> > Cabling disconnections > Gas valve failure 	1) Call for authorised service
E 89	Problem on combustion feedback signal	Boiler does not work, E89 error code flashing on the screen	<ul style="list-style-type: none"> > Aging or rust on the electrode > Recirculation of exhaust gas into fresh air > Blockage in flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure 	1) Call for authorised service
E 90	Unable to regulate combustion	Boiler does not work, E90 error code flashing on the screen	<ul style="list-style-type: none"> > Aging or rust on the electrode > Recirculation of exhaust gas into fresh air > Blockage in flue or wrong flue > Electrode position > Cabling disconnections > Combustion calibration > Electronic board > Gas valve failure 	1) Call for authorised service
E 92	Air compensation active	Boiler does not work, E92 error code flashing on the screen	<ul style="list-style-type: none"> > Possible wind precence > Aging or rust on the electrode > Recirculation of exhaust gas into fresh air > Blockage in flue or wrong flue > Electrode position > Combustion calibration > Min power adjustment 	1) Call for authorised service
E 93	Unable to regulate combustion (temporarily)	Boiler does not work, E93 error code flashing on the screen	<ul style="list-style-type: none"> > Aging or rust on the electrode > Recirculation of exhaust gas into fresh air > Blockage in flue or wrong flue > Electrode position > Combustion calibration > Gas valve failure > Electronic board 	1) Call for authorised service

Error Code	Description of the Error	Malfunction	Probable Cause	Solution(s)
E 94	Possible low gas pressure or exhaust recirculation	Boiler does not work, E94 error code flashing on the screen	<ul style="list-style-type: none"> > Gas inlet pressure LOW > Recirculation of exhaust gas into fresh air > Blockage in flue or wrong flue > Aging or rust on the electrode > Electrode position > Combustion calibration > Gas valve failure > Electronic board 	1) Call for authorised service
E 95	Intermittent combustion value	Boiler does not work, E95 error code flashing on the screen	<ul style="list-style-type: none"> > Harness on electrode and earth > Aging or rust on the electrode > Electrode position > Combustion calibration 	1) Call for authorised service
E 96	Flue or air suction way blockage	Boiler does not work, E96 error code flashing on the screen	<ul style="list-style-type: none"> > Blockage in flue > Blockage in air suction path 	1) 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) Call for authorised service
E 99	Generic fault	Boiler does not work, E99 error code flashing on the screen	> Boiler electronic hardware problem	<ul style="list-style-type: none"> 1) Reset & Restart boiler 2) Call for authorised service

(1) Call the Authorised Service if failure continues.

(2) 81 numbered failure corresponds any blocking in the exhaust gas pipe. In such case, you should consult the authorised service technician before re-starting the boiler.

2.5.1. 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 8 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 funnel. Otherwise, safety valve shall be activated and manufacturer shall not be responsible due to water discharge to the place of device.

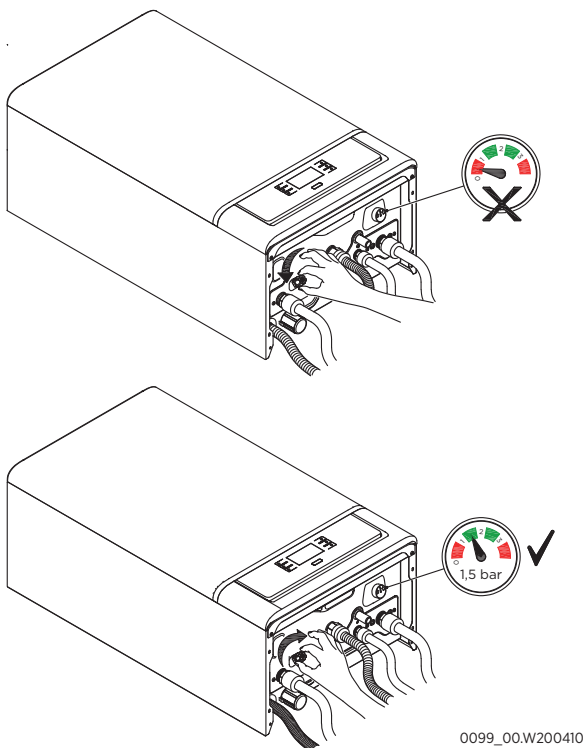
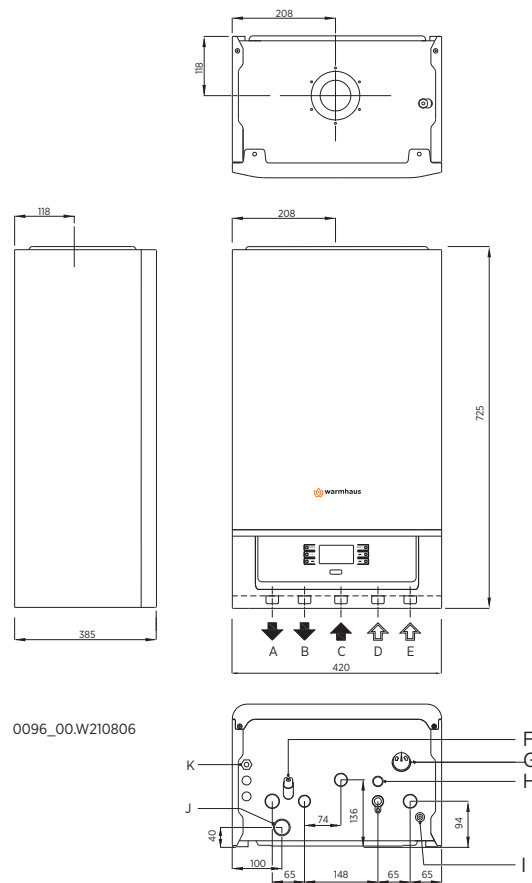


Figure 7 Filling the boiler



- A. Central Heating Flow (CH-3/4" thread)
- B. Domestic Hot Water Outlet (DHW-1/2" thread)
- C. Gas Inlet
- D. Domestic Hot Water Inlet (DHW-1/2" thread)
- E. Central Heating Return (CH-3/4" thread)
- F. Filling Valve
- G. Manometer
- H. Pressure Relief Valve Outlet
- I. Drain Point
- J. Condensate Drain (Ø24 mm)
- K. Power Supply (230V AC 50 Hz)

Figure 8 Boiler connections

2.6. RECOMMENDATIONS FOR ECONOMICAL USE OF BOILER

Your is adjusted at ECO mode for economic use, we recommend not to change it

Correct Capacity Selection

Heat loss calculation of the boiler location should be made correctly and boiler capacity should be selected accordingly. 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 turn ON and OFF more frequently. Therefore, 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 has the highest thickness insulation of its class, heat loss is minimized.

Radiators

Ensure balancing the rest pump head of the appliance 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 °C) for 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 boiler will operate more economically as you will have the chance to adjust requested room temperature according to comfort 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, you must at least execute maintenance operations on a yearly basis in compliance with national, regional, or local standards in force.

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

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

Under below given conditions, warranty of the product will be void :

1. Damages and failures occurring in devices which are not commissioned Authorised 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 Authorised 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. Damages and failures arising from frost/icing or occurring due to using in the outdoor places (open balcony, etc.).
12. Damages and failures arising from using water out of the water values defined in device user's guide,

Product FICHE & ErP Data				
ErP Data	Manufacturer		Type-model / Technical data Enerwa Plus 42 kW, Enerwa Plus 45 kW Boilers	
	Warmhaus			
All information in the ERP Data Sheet & Product Data Sheet is based on the test results of the SZU Test / BRNO laboratories.				
PRODUCT FICHE (according to EU regulation No 811/2013 and 814/2013)				
			Enerwa Plus 42 kW	Enerwa Plus 45 kW
Space heating - Temperature application			High / Medium / Low	High / Medium / Low
Water heating - Declared load profile			XL	XL
Seasonal space heating energy efficiency class				
Water heating energy efficiency class				
Rated heat output (Prated or Psup)		kW	38	41
Space heating - annual energy consumption	Q _{HE}	GJ	70	75
Water heating - Annual energy consumption		kWh (*)	38	38
		GJ (**)	18	18
Seasonal space heating energy efficiency		%	92	92
Water heating energy efficiency		%	81	81
Sound power level LWA indoors		dB	58	58
Option to only operate during low demand periods		-	-	-
Specific precautions for assembly, installation and maintenance			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 was determined by applying the specifications of the relevant European directives. Differences to product information listed elsewhere may result in different test conditions. Only the data that is contained in this product information is applicable and valid.				
(*) 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 DATA (according to EU regulation No 813/2013 and 814/2013)

			Enerwa Plus 42 kW	Enerwa Plus 45 kW
Water heating - Declared load profile			XL	XL
Rated Heat Output	P_{rated}	kW	38	41
Useful heat output at rated heat output and high temperature regime (2)	P_4	kW	38.2	41.4
Useful heat output at 30% of rated heat output and low temperature regime (1)	P_1	kW	7.91	7.91
Seasonal Space Heating Energy Efficiency	η_s	%	92	92
Useful efficiency at rated heat output and high temperature regime(2)	η_4	%	87.87	87.87
Useful efficiency at 30% of rated heat output and low temperature regime(1)	η_1	%	96.75	96.75
Auxiliary Electricity Consumption				
Full load	e_{lmax}	kW	0.08	0.08
Part load	e_{lmin}	kW	0.01	0.01
Standby mode	P_{SB}	kW	0.004	0.004
Other Items				
Standby heat loss	P_{Stby}	kW	0.043	0.043
Ignition burner power consumption	P_{ign}	kW		
Space heating - annual energy consumption	Q_{HE}	GJ	70	75
Sound power level, indoors	L_{WA}	dB	58	58
Emissions of nitrogen oxides	NO_x	mg/kWh	25	27
Domestic Hot Water Parameters				
Declared Load Profile			XL	XL
Daily electricity consumption	Q_{elec}	kWh	0.174	0.174
Annual electricity consumption*	AEC	kWh	38	38
Water Heating Energy Efficiency	h_{wh}	%	81	81
Daily fuel consumption	Q_{fuel}	kWh	24.191	24.191
Annual fuel consumption	AFC	GJ	18	18
Condensing boiler	-		Yes	Yes
Low temperature boiler	-		Yes	Yes
Combi Boilernation boiler	-		Yes	Yes
B1 Boiler	-		No	No
Room boiler with combi boilerned heat and power	-		Yes	Yes
Auxiliary boiler	-		No	No
Brand Name	Warmhaus			
Manufacturer adress	Warmhaus Isıtma ve Sogutma Sistemleri San. Tic. A.Ş. Minareliçavuş OSB Mahallesi Selvi Cad. No:3 Nilufer/Bursa/Turkey			
Warnings 	All specific precautions for assembly, installation and maintenance are described in the operating and installation manual. Read and follow the operating and installation manual.			
	Read and follow the operating and installation manual regarding assembly, installation, maintenance, removal, recycling and/or disposal.			
* for average 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.				
As this is the property of Warmhaus Isıtma ve Sogutma Sistemleri San. Tic. A.Ş. It must not be passed on to any person not authorized by Warmhaus Isıtma ve Sogutma Sistemleri San. Tic. A.Ş or be copied or otherwise utilized by anybody without expressed written permission.				

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ENERWA PLUS 42/40 ENERWA PLUS 45/43

CONDENSING COMBI BOILERS USER MANUAL

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