



PROTEUS PREMIX CONDENSING BOILER

PROTEUS PREMIX PPR 14/20/24/28/30/35 HM/HCH/HST

INSTALLATION AND USER'S
OPERATING INSTRUCTIONS



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1 - INTRODUCTION

First of all, we would like to thank you for choosing E.C.A brand.

E.C.A. Proteus Premix condensing boilers have been designed for an efficient, safe and comfortable central heating and hot water requirement. The Proteus Premix condensing boilers can possibly use natural gas or LPG according to the desired fuel preference.

HM Model: It is designed for both Central Heating (CH) and Domestic Hot Water (DHW).

HCH Model: It is designed for Central Heating (CH).

HST Model: It is designed for both Central Heating (CH) and Domestic Hot Water (DHW). Boiler connection must be used for Domestic Hot Water (DHW) requirement.

The assembly and usage information of 14/20/24/28/30/35 kW Proteus Premix condensing boilers are available in this manual. Detailed information have been provided in the guide regarding the technical specifications of the devices, selection of the boiler location, fitting its water, gas, flue and electric supply connections, gas conversion, maintenance information and resolution of possible failures. Please carefully read the manual in order to benefit from all the features of your device.

Keep all the documents provided by your device in order to refer when required.

2- GUARANTEE AND SERVICE

- The appliance has guarantee period against faulty workmanship or material in condition that the instructions and precautions in this manual must be obeyed. The service operations and general maintenance must be carried out only qualified person.
- The warranty certificate must be registered by Service in the installation day.
- Your appliance needs not any repairs if operated according to this manual. For assistance for additional information, consult qualified person, installer or gas supplier.

3- DEFINITIONS OF SYMBOLS

The following symbols have been placed at required points in the text in order to draw attention to significant points regarding the usage and assembly of the device. The meanings of the symbols have been specified below.



Indicates that the situation that can only be interfered by qualified person.



Explanations containing information that should be considered by the user.



CAUTION:It means that you may suffer from material damage or slight personal injury.

DANGER: It means that you may suffer from sever personal injury.

4- SAFETY RULES AND WARNINGS

4.1- Safety Instructions

When a gas leak is found or suspected;

- Turn off the gas valve of the boiler and the valves of all other devices operating with gas.
- Shut off the stove, oven and similar appliances to put their flame out.
- Do not light matches, lighter etc, and stub out your cigarette.
- Ventilate the environment by opening doors and windows.
- Do not ever touch the buttons and plugs of your electrical appliances.
- Turn off the gas valves in the apartment and building entrance.
- Do not use the phones at places where the gas leak is suspected.
- Call your qualified person as soon as possible.
- Do not place and use flammable and explosive liquid or materials around the boiler.
- Keep materials such as water, foam away from electrical connections during operations such as cleaning, gas leak test etc.
- Do not lay the LPG container down
- Do not block air vents, openings made in the walls of the room which provide fresh air to the installation room.

4.2- Water Systems & Gas Supply Line

• Before installation of the boiler, the water systems (CH & DHW circuit) and gas supply line must be completed in accordance with the relevant regulations and standards by user.

4.3- Gas Type Conversion

- The appliances should be purchased depending on operating gas type. In case of a demanding gas type
 conversion, this is made with charge.
- Gas type conversion should be performed by the authorized service. Gas leak test should be made after the conversion operation.
- The self-adhesive conversion label must br placed on the boiler after gas type conversion.

4.4- Installation

- The boiler must be installed in accordance with national and local requirements, gas safety regulations, relevant standarts and this manual by qualified installer.
- The appliance should be mounted against a closed wall.
- The appliance should not be positioned having direct contact to steam, detergent or gases.
- Any change of flue position must not be made without consulting qualified person.
- Sunlight can cause color change on the exterior of your device over time.
- The device must be installed in indoor spaces under normal conditions. However, it can be operated in a suitable cabinet in places such as garage, open balcony. Please consult E.C.A for proper cabine sizes.
- If device is located in an unheated area, it should be connected to mains, switched on, and pressure of
 installation should be within operation range so that freeze protection would be activated. Even if device
 is OFF position, freeze protection stays activated.

4.5- Boiler Start Up

- Boiler start up must be performed certainly by qualified person.
- Gas Type (Natural Gas / LPG), gas supply pressure (mbar), maximum DHW operating water pressure (bar) and electricity supply voltage on the information plate must be suitable with mains supply conditions. This is checked by qualified person.
 - After boiler start up, you should request information about operating the boiler and safety precautions from qualified person.



CAUTION: The 2-amp bipolar fuse with a minimum contact opening of 3 mm must be used in the electrical connection of the boiler.

4.6 - Usage and Maintenance

- Read carefully instructions and precautions in this manual against wrong usage which causes unsafe conditions.
- The boiler should be checked and serviced for general maintenance once a year. Maintenance and service operations must be carried out only qualified person.
- Only a damp cloth should be used for cleaning the outer surface of the boiler and then the surfaces should be dried completely. Do not use chemical substances or solutions which cause rust and scratches in your appliances.



CAUTION: This device is not intended to be used by persons with physical, sensory or mental disabilities (even children) or persons with inadequate experience and knowledge, unless the person responsible for the safety of the device provides supervision and management of the use of the device. Children must be kept under surveillance to ensure that they do not play with the device. Cleaning and user maintenance should not be done by unattended children.



CAUTION: This device is not intended for use by persons (including children) who are low physical or sensory and mental capacity and inexperienced persons without informing and supervising the use of the device by responsible persons. Ensure that children do not play with the appliance.



CAUTION:If device is used incorrectly or for other than its intended use, it may present a life hazard and may cause material damage to the product and its surroundings.

5- PRODUCT

5.1- General Specifications

Control panel is ergonomic and easy to use. The Proteus Premix condensing combi boiler with elegant plastic control panel and advanced LCD screen provides ease of use and service. On a LCD display with black instrument panel; you can see the operating state icons, heating circuit and operating water adjustment values, the fault / failure codes and the heating water pressure. With the safety systems available in your device, safety of both you and your device are fully ensured.

These safety systems;

- Flame Failure Safety System
- Boiler Over-Heat Safety System (95 ° C)
- DHW (Domestic Hot Water) Over-Heat System (71 ° C)
- High Water Pressure Protection System (3 bar)
- Low Water Pressure Protection System (0.4 bar)
- Low Voltage Protection System (170 VAC)
- Thermal Accumalation Protection System (with by-pass circuit and "pump over-run")
- Frost Protection System for both CH and DHW circuit)
- Domestic Hot Water Flow Control (only for HM Model)
- Pump Anti-sticking Function
- 3 Way Valve Anti-sticking Function (except HCH Model)
- Automatic Air Vent
- Expansion Vessel (8 liters)
- Warning System for Siphon Blockage
- Protection System Against Penetration of Water Through Flue
- Maintenance Reminder Function (Yearly)
- Anti-legioner Protection (only for HST Model)

5.2- Notations of Product

5.3- Detailed View and List of Components

5.3.1- HM Model

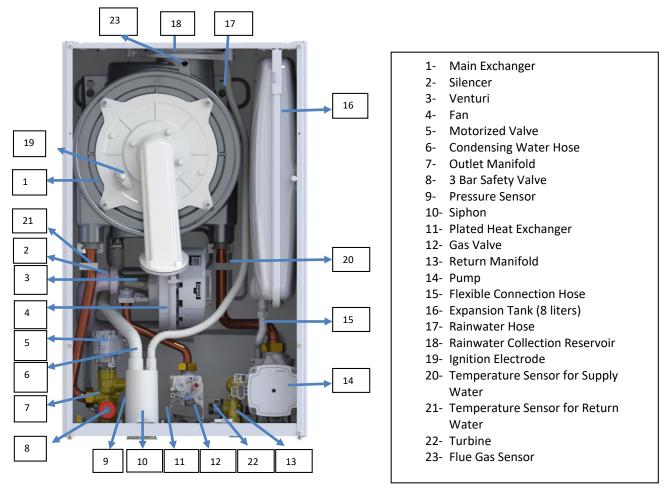


Figure 1.1

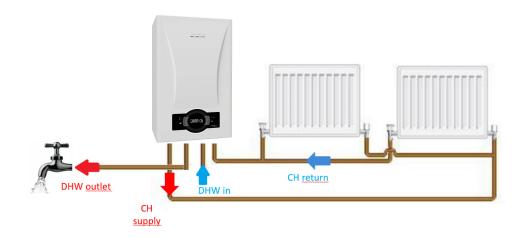


Figure 1.2

5.3.2- HST Model

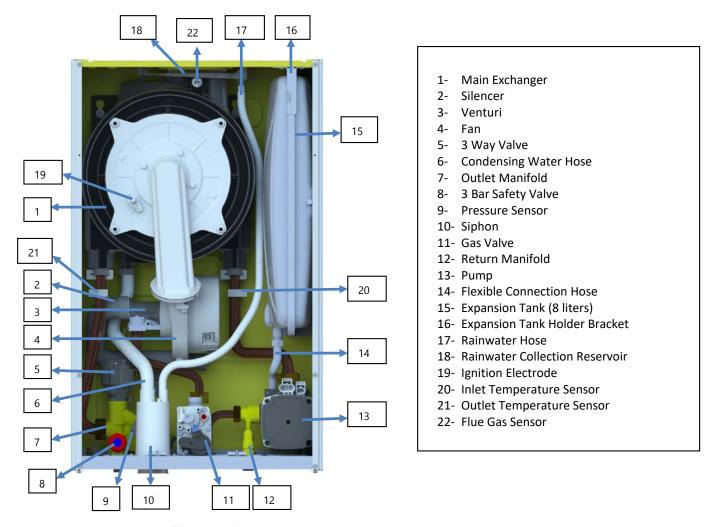


Figure 2.1

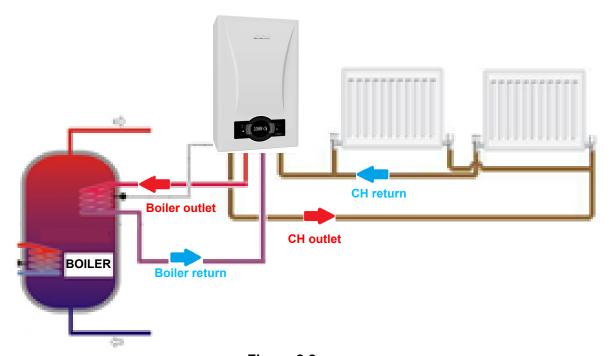


Figure 2.2

5.3.3- HCH Model

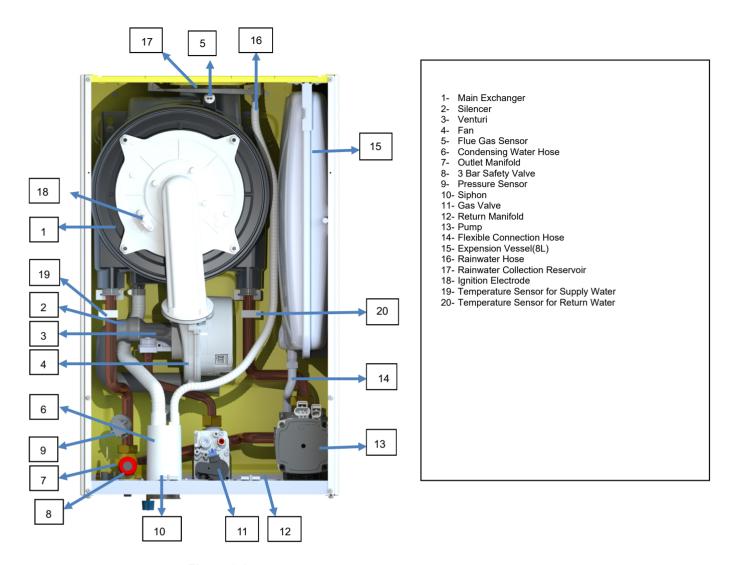


Figure 3.1

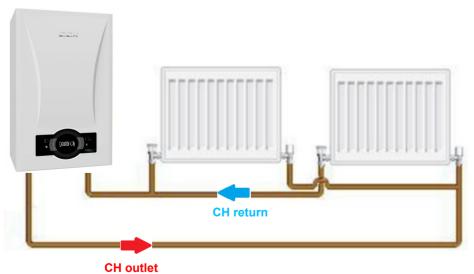


Figure 3.2

5.4- Technical Specifications

		PROTEUS	PROTEUS	PROTEUS	PROTEUS	PROTEUS	PROTEUS	
Product type	Unit	PREMIX 14	PREMIX 20	PREMIX 24	PREMIX 28	PREMIX 30	PREMIX 35	
		HM-HCH-HST	HM-HCH-HST	HM-HCH-HST	HM-HCH-HST	HM-HCH-HST	HM-HCH-HST	
Gas Category			12H, 13P, 12Esi, 12E(S), 112L3P, 112H3P, 112ELL3P, 112Esi3P					
Flue Types			C ₁₃ (X), C ₃	3(X), C ₄₃ (X), C ₅₃	(X), C ₆₃ (X), C ₈₃ ()	K), B ₂₃ , B ₃₃		
Gas Input Pressure (G20)	mbar			2	.0			
Gas Input Pressure (G25)	mbar			20,	/25			
Gas Input Pressure (LPG G31)	mbar			37	/50			
	Ca	pacity-Efficienc	у					
Min. Heating power - (@60°C min)	kW	5,6	5,6	5,6	6,4	6,9	8	
Max. Heating power - (@80/60°C) (P4)	kW	14,1	20,2	24,5	28	30	35	
Min. Heating power - (@30°C min)	kW	6,7	6,7	6,7	7,7	8,3	9,6	
Max. Heating power- (@50/30°C)	kW	15	22,2	26	29,6	31,7	37	
Min. Heat input (Qn)	kW	6,2	6,2	6,2	7,2	7,7	9	
Max. Heat input (Qn)	kW	14,5	20,7	25,2	28,7	30,8	35,9	
Efficiency (@80°/60° C Max) (Gross Calorific value)	%	97,50%	97,50%	97,50%	97,50%	97,50%	97,50%	
Efficiency (30°C Return) (Gross Calorific value)	%	107,50%	107,50%	107,50%	107,50%	107,50%	107,50%	
	El	RP Informations	5					
Seasonal Space Heating Energy Efficiency Class		Α	Α	Α	Α	Α	Α	
Water Heating Energy Efficiency Class/ Load Profile		A/XL	A/XL	A/XL	A/XL	A/XL	A/XL	
Rated Heat Output (Prated)	kW	20,2	20,2	24,5	28	30	35	
Seasonal Space Heating Energy Efficiency	%	91,11	91,4	92,2	92,4	92	92,9	
Water Heating Energy Efficiency	%	83,6	83,6	83,6	83,9	82,8	82,8	
Sound Power Level	db(A)	49	49	49	49	49	49	
Efficiency at Rated Heat Output At High Temperature Regime (η_4)	%	87,9	87,9	87,9	97,4	87,9	87,9	
Efficiency at 30% of rated Output At Low Temperature Regime (η_1)	%	97	97	97,2	87,9	97	97,9	
At Full Load elmax	Watt	28,2	35	40	51	56	66	
At Part Load elmin	Watt	11,9	11,9	11,9	11,9	13	13	
In standby Mode	kW	0,004	0,004	0,004	0,004	0,004	0,004	
Standby Heat Loss	kW	0,065	0,065	0,065	0,065	0,065	0,065	
Emissions of Nox Level	mg/kWh	25,91	27,2	25,91	21,29	25,91	25,91	
Daily Electricity Consumption (Qelect)	kWh	0,423	0,423	0,1938	0,22	0,24	0,24	
Daily Fuel Consumption (Qfuel)	kWh	22,88	22,88	22,8	22,8	23,021	23,021	
	G	as Consumptior	1					
Natural Gas (@Min-Max Capactiy)	m³/h	0,65-1,53	0,65-2,2	0,65-2,65	0,75-3,02	0,81-3,25	0,94-3,79	
LPG (@Min-Max Capactiy)-Propane	kg/h	0,51-1,2	0,51-1,7	0,51-1,98	0,59-2,26	0,63-2,46	0,74-2,87	
NO_X Class		6	6	6	6	6	6	
	Central Heating							
Min. Water Pressure	bar	0,4	0,4	0,4	0,4	0,4	0,4	
Max. Water Pressure	bar	3	3	3	3	3	3	
Operation Range (@Radiator heating)	°C	30-80	30-80	30-80	30-80	30-80	30-80	
Operation Range (@Underfloor heating)	°C	30-45	30-45	30-45	30-45	30-45	30-45	
Max. Limit temperature	°C	> 90	>90	>90	>90	>90	> 90	

Dom	nestic Ho	t Water (only v	alid for HM)				
Min. Domestic flow for operating	L/min	2 (±%10)	2 (±%10)	2 (±%10)	2 (±%10)	2 (±%10)	2 (±%10)
Min. Domestic flow for closing	L/min	1,5 (±%10)	1,5 (±%10)	1,5 (±%10)	1,5 (±%10)	1,5 (±%10)	1,5 (±%10)
Max. Domestic hot water flow rate	L/min	10 ±%15 (ΔT = 34,7°C)	10 ±%15 (ΔT = 34,7°C)	10 ±%15 (ΔT = 34,7°C)	12 ±%15 (ΔT = 33,5°C)	12 ±%15 (ΔT = 35,8°C)	14 ±%15 (ΔT = 35,8°C)
Min. Water Pressure	bar	0,4	0,4	0,4	0,4	0,4	0,4
Max. Water Pressure	bar	10	10	10	10	10	10
Operation Range	°C	30-65	30-65	30-65	30-65	30-65	30-65
Max. Limit temperature	°C	≥71	≥71	≥71	≥71	≥71	≥71
		General					
Electrical Supply	V AC-Hz			230 VA	C-50 Hz		
Electrical consumption (Max-Std Pump)	Watt	120	130	135	155	170	190
Electrical consumption (Max-HE Pump)	Watt	60	70	80	110	130	165
Protection Class				IP)	(4D		
Expansion Vessel	lt				8		
Weight (Net)	kg			28	3,5		
Dimesions (HxWxD)	mm			678*4	10*288		
		Flue Lenghts					
C13 – 60/100 Max.	m	10	10	10	10	10	10
C13 – 80/125 Max.	m	20	20	20	20	20	20
C33 – 60/100 Max.	m	10	10	10	10	10	10
C33 – 80/125 Max.	m	20	20	20	20	20	20
C43 – 60/100 Max.	m	10	10	10	10	10	10
C53 – 60/100 Max.	m	10	10	10	10	10	10
C83 – 80/80 Max.	m	28	28	28	28	28	28
C83 – 80/80 Min.	m	3	3	3	3	3	3
B23 – 80 Max.	m	28	28	28	28	28	28
B33- 60/100 Max.	m	10	10	10	10	10	10
	E	mission Values					
CO ₂ ratio (@max-G20)	%	9,15 ± 0,2	9,2 ± 0,2	9,5 ± 0,2	9,5 ± 0,2	9,5 ± 0,2	9,5 ± 0,2
CO ₂ ratio (@min-G20)	%	8,9 ± 0,2	8,9 ± 0,2	8,9 ± 0,2	8,9 ± 0,2	8,9 ± 0,2	8,9 ± 0,2
CO ₂ ratio (@max-G31)	%	10,3 ± 0,2	10,3 ± 0,2	10,6 ± 0,2	10,6 ± 0,2	10,6 ± 0,2	10,6 ± 0,2
CO ₂ ratio (@min-G31)	%	9,7 ± 0,2	9,7 ± 0,2	9,9 ± 0,2	9,9 ± 0,2	9,9 ± 0,2	9,9 ± 0,2
· ·	Boiler Cir	cuit (only valid	for HST)				
Operation Range	°C	30-65	30-65	30-65	30-65	30-65	30-65

11

6. BOILER PACKAGING



CAUTION: Attention must be paid to warning on packaging regarding handling and storage.

- The device is delivered with a cartonboard with dimensions of 735 x 345 x 490 (HxWxD) mm, supported by upper and lower styrofoams.

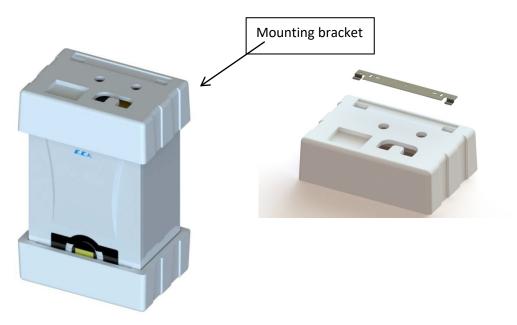


Figure 5

- Parts required for installation of the device (wall bracket, 5 gaskets for HM and HCH and 6 gaskets for HST water and gas connections, 3 anchors and 3 fixing screws) are placed on the top styrofoam.
- The hermetic flue set is delivered in a carton box separate from the unit. The standard hermetic flue set (\emptyset 60/100 or \emptyset 80/125) consists of the following components (Figure 6).

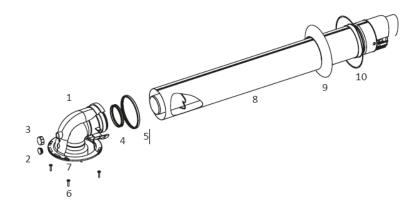


Figure 6

1. 90° C Elbow	6. Flange Screws
2. Exhaust Gas Tap	7. Flange Gaskets
3. Air Inlet Tap	8. Flue Exhaust Terminal
4. Sealing Gasket Ø60 or Ø80	9. Inner Wall Connection Flange
5. Sealing Gasket Ø 100 or Ø125	10. Outer Wall Connection Flange (EPDM)

Table 2

7. FLUES

7.1- Flue Sizes

Flue gas connections between the boiler and the flue terminal must be made using original components specially designed for the condensing boiler to ensure that the device operates efficiently and correctly.

Flue gas pipes and fittings of non-condensing boilers can not be used for exhausting gases from condensing boilers. In the horizontal concentric flues, the exhaust gas pipe (the inner pipe) facing outwards should be inclined upward and the fresh air pipe (outer pipe) should be inclined downward. When the original flue set is installed parallel to the ground, the exhaust gas pipe is automatically inclined upwards.

Equivalent length for each 90° elbow: 1 m

Equivalent length for each 45 ° elbow: 0.5 m

7.2- Flue Types

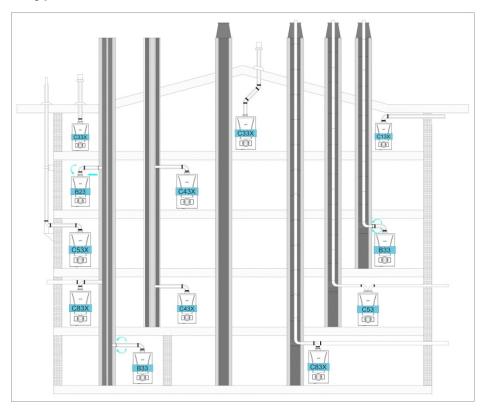


Figure 7

7.3- Distances for Placement of Flues

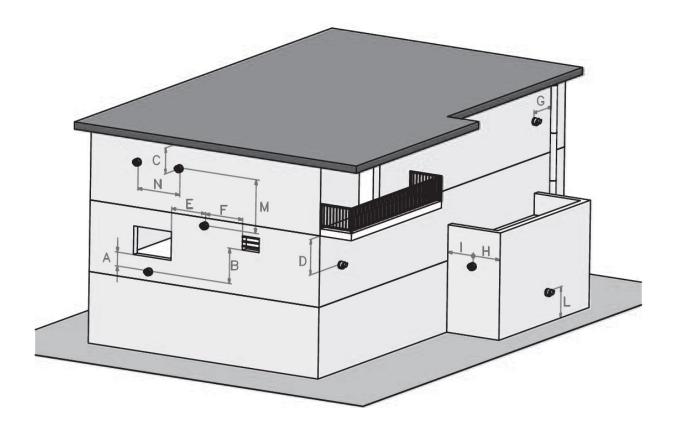


Figure 8

POSITION	DISTANCE (cm)	POSITION	DISTANCE (cm)
A-Below a windows	60	G- Next to vertical or horizontal pipe	60
B- Below an air vent	60	H- Below the distance grille from the outside of the building	30
C- Below rain channel	30	I- Distance from the inner corner of the building	100
D- Under the balcony	30	L- From the ground or from the floor	180
E- Next to a window	40	M- Vertical distance of two flue outlets	150
F- Next to an air grill	60	N- Horizontal distance of two flue outlets	100

Table 3

8- INSTALLATION

8.1- Selection of Installation Location of Device

The boiler must be installed in accordance with gas safety regulations and relevant standards. Additionally, the clearance around the boiler should be as shown in fig 4. In order to make service, maintenance and usage easier.

Figure 9: It shows the minimum distances required from the top and sides of the device (Dimensions given in mm).

The installation must comply with the following minimum distances so that servicing and maintenance of the boiler can be performed correctly. The position of the boiler must be checked against technical requirements.

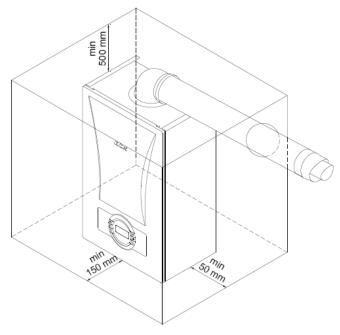


Figure 9



-Do not install your boilers in locations that will be exposed to direct sunlight. Sunlight can cause color change on the exterior of your device over time.
-Ambient temperature of device's installation location should be between 5 -35°C.



-The device can be used at altitudes up to 2000 m above sea level.



- -There is no need to remove side panels in the combi boiler service operations. Minimum 50 mm clearances are given taking into consideration the share of possible side panel sheet changes.
- Since the outside temperature of the device does not rise above 85 °C at the maximum heating power, no special protective measures are required against the combustible construction materials and components.

8.2- Independent Operation from Ambient Air (Type C)



DANGER: For room sealed operation, the boiler location and air/flue terminal position must obey national and local requirements, gas safety regulations and relevant standards.

- -Type C (hermetic) devices are not suitable for outdoor installations. These devices should be installed inside the building.
- -In case of gas leakage, it is necessary to vent the installation room according to national and local requirements, although the room sealed operation boilers are independent of room volume and ventilation.



DANGER: Do not block the air vents which provide fresh air to the installation

- -The air/flue terminal must be exposed to the external air and allow free passage of air cross it at all times.
- -The minimum acceptable dimensions from the terminal to obstructions an ventilation openings must obey national and local requirements.
- All horizontally fitted ducts (air/flue) should be fitted 2° or 3° upwards incline to allow condensate water drain to the boiler.



-The flue ducts are always wet.



-Under cold or excessive humid weather conditions the water vapor inside the waste gas may condensate while leaving the flue.

8.3- Mounting the Boiler

Having determined the boiler location,

- The points of lock screws of wall bracket and assembly bracket are marked by using the assembly template inside installation and user's operating instructions of the device (pages 34-35-36). The mounting bracket is an optional part.
- After drilling the marked points, wall assembly bracket and assembly bracket are fixed on the wall by the dowel and lock screws which are inside the packaging of the device.
- Finally, the boiler is hanged on the wall by placing the assembly bracket on the back side of the boiler on the mounting bracket assembled on the wall.

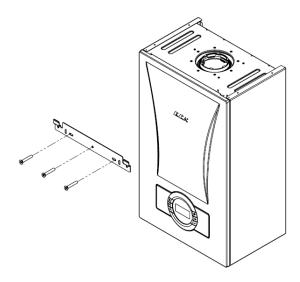


Figure 10

9 - CONNECTIONS

9.1- Condensate Discharge Connection



- All condensing boilers generate condensing discharge. The amount of the condensate water depends on the working conditions of your appliance. This can be up to 1.7 litres condensate water an hour.
- The condensation water must be connected to a drain with the help of a plastic hose which is connected to the end of siphon. The use of standard discharge hose is recommended for connection to the drain. The addition of 1 cable connection on the hose should be made for fixing.
- If drain hose will be connected to drain outside of the building, insulation should be provided to prevent freeze of hose.
- The condensate discharge hose and interconnection parts must be made of plastic material.
- All horizontal parts must be connected at a slight 2° or 3° downwards incline to ensure to a good flow.









Figure 11

9.2- Gas and Water Connections

9.2.1- HM Model

- Water and gas supply connections between the boiler and the mounting bracket can be fixed with the optional pipes and the nipples as shown in Figure 12.
- a) CH flow 3/4 " (hot)
- b) DHW outlet 1/2 " (hot)
- c) Gas inlet 34"
- d) DHW inlet 1/2 " (cold)
- e) CH return 34" (cold)
- -A suitable valve should be mounted on the gas inlet and CH & DHW water circuit. In addition, a water filter should be mounted on CH (3/4") return and DHW (1/2") inlet.
- A plastic pipe should be fixed the outlet tap of the three bar relief valve and the pipe should be connected to the drain line.
- The connection between the appliance and gas supply must be made with a flexible pipe.
- National and local requirements should be take into consideration.

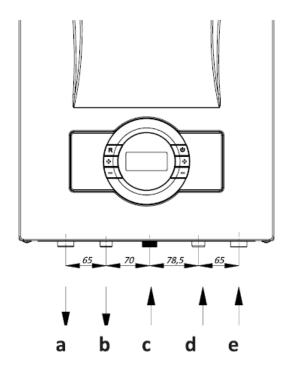


Figure 12

9.2.2- HCH Model

- a) CH flow ¾ " (hot)
- b) Water filling line1/2"
- c) Gas inlet 3/4"
- d) CH return 3/4" (cold)

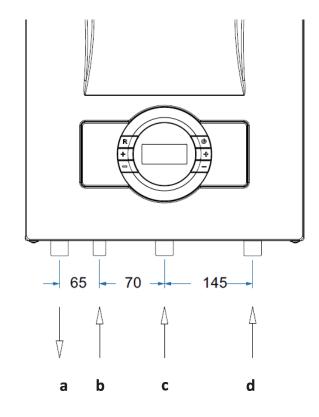
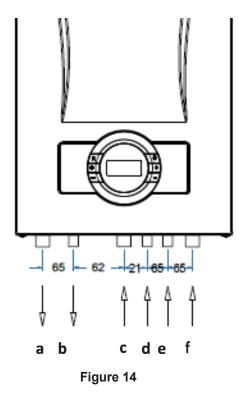


Figure 13

9.2.2- HST Model

- a) CH flow 3/4 " (hot)
- b) Boiler supply water (hot)
- c) Gas inlet 34"
- d) Boiler return (cold)
- e) Installation Filling Line 1/2 "
- f) CH return 34" (cold)



9.3- Electrical Connection

Electrical installation should be made according to the national and local instructions. The boiler must be earthed and a standard 230 V AC - 50 Hz supply is required.



CAUTION: Disconnect power supply to prevent electrical shock before connecting the electrical supply.



CAUTION: If the supply cord is damaged, it must be replaced by the manufacture, its service agent or similarly qualified person in order to avoid a hazard.



CAUTION: The 2-amp bipolar fuse with a minimum contact opening of 3 mm must be used in the electrical connection of the boiler.



CAUTION: The cable diameter (including insulation) of the electrical installation to be installed must be at least 14 mm and the pipe diameter used must be at least 16 mm.

9.4- Room Thermostat

Optional room thermostats compatible with your device can be used to control heating system.



E.C.A. On/Off Room Thermostat T6360 7006901312



E.C.A. Digital Room Modulated, Programmable LAGO FB OT **7006902518**



E.C.A. Smart Room Thermostat T6360

7006907531



E.C.A. Digital Room Thermostat No Wire,Programmable CM 727 7006902046



E.C.A. Digital Room Thermostat DT90 **70069020502**



E.C.A. On/Off No Wire Room Thermostat 7006907522
E.C.A. On/Off No Wire Room Thermostat 7006907519



E.C.A. Programmable Digital Room Thermostat CM707 7006901313 No Wire 7006901501

Figure 15

9.5- Outdoor Sensor

To connect the room thermostat or outdoor sensor to the device, the connections behind the control panel are used. For the room thermostat, the bridged cable connection on the back of the control panel is removed and the outer air sensor is connected to free sockets on the terminal.



- It can be provided as an option according to boiler models.
- It allows operation of combi boiler adjusted to outside temperature.

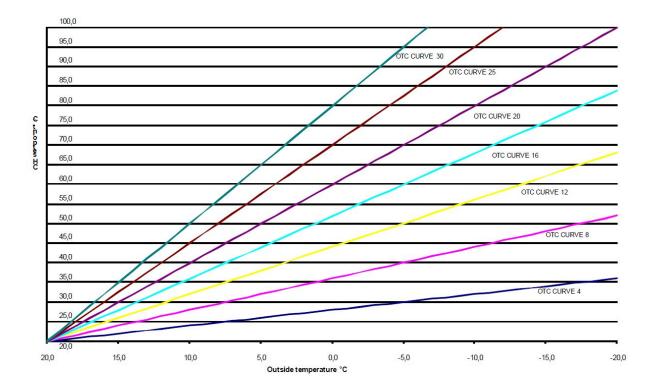
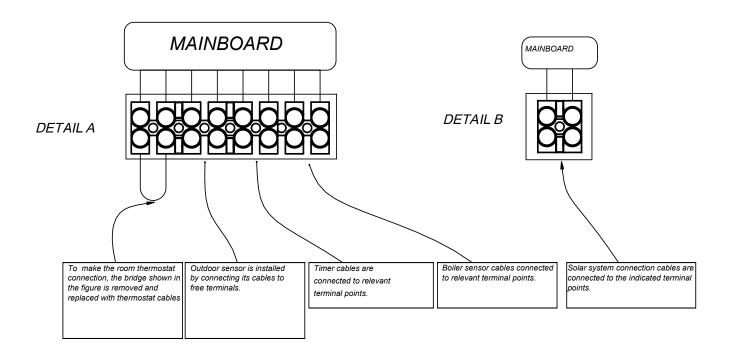
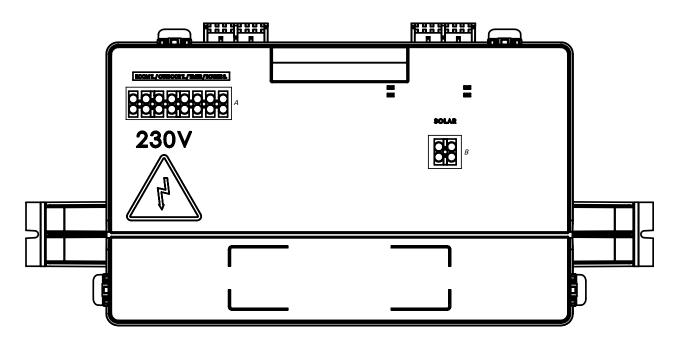


Figure 16

9.6- Room Thermostat and Outer Air Sensor Connection





- Cancel the bridge on the other side on room thermostat connection.
- Only the room thermostats deemed to be appropriate by authorized services of E.C.A. should be used on your boiler. Otherwise, it may cause the malfunction of your device. Responsibility is not undertaken under such conditions.



The connections of room thermostat, outdoor sensor and timer must be performed certainly by qualified person.

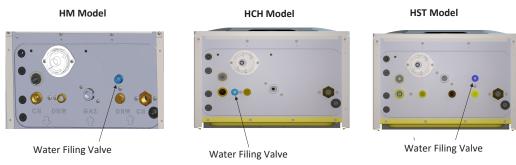
10- COMMISSIONING, USE AND TURNING OFF THE BOILER

10.1- Commissioning, Filling Water into Boiler and Heater Installation

- First of all, the electrical connection of the boiler is done. The electrical connection of the device must be connected to a grounded power supply line that can supply enough voltage (230 VAC, 50 Hz) for the device.
- All radiator valves should be opened.
- CH flow and CH return of boiler should be opened. Check them.
- After all these processes, filling valve is slowly opened and filling procedure is initiated.

The filling process continues until the water pressure of 1.5-2 bar is seen on the LCD display and then the filling valve is closed.

- -When the water pressure increase to 0.8 bar, the LCD will show "AP" and the boiler will switch to automatic air vent mode. In this case you should definitely wait for 160 seconds without pressing "RESET".
- -Check water pressure on pressure indicator frequently and ensure that the pressure is between 1.5 and 2 bar when system is cold. If the pressure drops frequently, it means that there is a water leak in the system. In such case, it is necessary to call a plumber.





ATTENTION: Always close the water filling valve, the installation water may leak and damage the environment.

- To discharge air out of CH installation, purgers of the radiator is loosened and air is discharged until water comes out of radiators. This procedure is done for all radiators.
- Pressure is checked again on LCD screen. The filling valve is opened and again pressure is raised to 1.5 2 bar level.
- Radiator purgers are checked again to see if there is any air left inside of heating installation. For full efficient heating, all air must be discharged.
- Finally, check for any leaks in the radiator and piping.



ATTENTION: In order to prevent calcification of the heat exchanger, you are advised not to use well water, natural spring water instead of mains water.

- Check the domestic water installation by opening the hot water tap. Check for any leaks in the piping.
- The exhaust gas flue assembly must be installed from the original parts in accordance with the instructions.
- Gas supply must be checked by the qualified gas company.
- Must be called authorized service to start up the boiler after all these processes are completed.
- Commissioning must be strictly performed by authorized service.
- -At the end of the commissioning of the device after installation, please ask for information of authorized service on operating the device and relevant safety devices on device.

10.2- Using the Device

10.2.1- Switching off the Device

You can switch off the boiler by holding down the ON/ OFF button for 3 seconds.

LCD light will be OFF after 1 minute.

Anti-freeze function remains active.

11-CONTROL PANEL

11.1- Functions of Buttons

The control panel consists of the relevant elements as shown in figure 17 below.

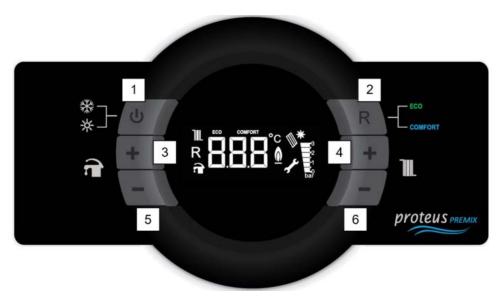


Figure 17 Control Panel

1 Position Selection Button

The position can be changed by pressing the position selection button once to change between the winter mode and the summer mode. If the button is pressed for 3 seconds, the device will switches into "standby" position. It will suffice to press the button once to get the device in operation position.

2 Reset Button

Main functions:

- Exit from lockout error (EXX)
- ECO mode activation
- Comfort mode activation

When your device fails, the error code will start flashing on the display. There are 2 types of errors, lockout (EXX) and blocking (FXX) error. When a lockout error condition occurs (EXX), the error must first be corrected so that the error code can be removed from the LCD screen. After pressing the "Reset" key once, the device can switch

back to normal operation state. As for a blocking error, the fault cannot be removed from the LCD display pressing the "Reset" button (FXX). When this error is corrected, error code is automatically disappears from LCD screen. The first time the device starts, it will start working in Comfort mode.

Once the Reset button is pressed when operating in Comfort mode, the device will switch to Eco mode. Then when Reset button is pressed again, the unit will switch to Comfort mode.

3 Domestic Hot Water Increase Temperature Button

The temperature of the domestic water can be increased up to 65 °C thanks to the domestic water temperature increase button.

4 Central Heating Water Increase Temperature Button

The temperature of the heating water can be increased up to 80 °C thanks to the heating water temperature increase button.

5 Domestic Hot Water Decrease Temperature Button

The temperature of the domestic water can be decreased down to 30 °C thanks to the domestic water temperature decrease button.

6 Central Heating Water Decrease Temperature Button

The temperature of the heating water can be decreased down to 30 °C thanks to the heating water temperature decrease button.

11.2- LCD Screen

LCD screen display icons described here below.

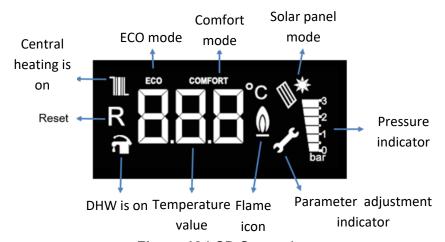


Figure 18 LCD Screen Icons

- **11.2.1 Flame Icon:** When operating between 0% and 50% capacity range, the icon is displayed on the LCD screen as single bar, whereas it is displayed as two bars when operating between 50% -100% capacity range.
- **11.2.2 Pressure Indicator:** The LCD display shows 0-0,5-1-1,5-2-2,5-3 bar water pressure values. The values other than these ones are not displayed. Only when filling after F37 (Low water pressure error) fault, the pressure value is displayed in the temperature value section.

11.3- Operation Functions

11.3.1- Standby (OFF Mode): The mode where device can be set to standby mode. In this mode, no requests for heating water and domestic water can be made. To activate the OFF mode, it is necessary to keep

button no. 1 (position selector) pressed for 3 seconds continuously. When -OFF- is displayed on screen, mode is activated.

- **11.3.2- Air Discharge Mode (AP Mode):** It is the process that the device automatically activates to discharge air in the central heating installation for 160 seconds. In this mode, "AP" is displayed on the screen. The circulation pump runs for 15 seconds an then stops every 5 seconds in intervals of every 20 seconds. The three-way valve motor also changes position between a CH-DHW in 40 seconds. The situations where this mode is activated is listed here below.
- Once the device is powered for the first time or after the electricity has been switched off and on,
- After the reset operation following the overheating fault (E03),
- After elimination of high water pressure (F40) or low water pressure (F37) error,



Do not press 'RESET' while AP mode is active.

11.3.3- Winter mode-Radiator Heating: If the device in the standby position is set to the winter position, the appliance will heat the water in the heating circuit until the domestic water is needed. In the winter mode, both the tap and the radiator icon are displayed on the LCD screen.

When a request for heating is made for radiator, radiator icon flashes (once/second), tap icon stays fixed. When a request for domestic water is made, tap icon flashes (once/second), radiator icon stays fixed. In this mode, radiator heating circuit's temperature can be set between 30-80 °C. For under floor heating applications, the temperature range can be set between 30-45 °C.

- **11.3.4- Summer Mode:** If the device in the OFF position is set to the summer position, the device will only respond to the domestic hot water demands. In summer mode, the tap symbol appears fixed on the LCD screen, the radiator icon does not appear. When the domestic hot water is heating request, the tap symbol flashes (1 time / second). In this mode, the domestic hot water temperature can be adjusted between 30-65 °C.
- **11.3.5- Comfort Mode:** The standard operating mode of the device is Comfort mode. By pressing the "Reset" button, Eco-Comfort modes can be switched. When Comfort mode is active, "Comfort" icon is displayed on the LCD screen. Comfort mode is only for radiator heating circuit. It has no effect on use of domestic water circuit. In this mode, the device responds to fast heating demands by running in modulation.
- **11.3.6- ECO Mode:** By pressing the "Reset" button, Eco-Comfort modes can be switched. When Eco mode is active, "Eco" icon is displayed on the LCD screen. Eco mode is only for radiator heating circuit. It has no effect on use of domestic water circuit. This mode allows savings on fuel by performing on-off operation.



11.3.7- Maintenance Reminder Mode: It is the mode where a reminder for yearly maintenance is activated. When this mode is active, only "ASE" is displayed on screen and device continues to meet heating requests. When you see "ASE" on screen, please get in contact with E.C.A authorized services for yearly maintenance.

11.3.8- Anti-Frost Mode: During the winter season, when the installationwater temperature falls below 6 ° C, the anti-freeze function is activated and the device continues to operate until the water output of installation rises to 15 ° C. In order for anti-freeze function to be activated, the following conditions must be checked and ensured by the customer.

- The power supply of the device must be switched on.
- The gas valve and radiator valves must be open.
- Water pressure of system should be at appropriate level.
- The anti-freeze function helps protect your device, it does not protect your installation.

• If device will not be operated for a while in places where there is risk of freezing, then it is necessary to drain the water or to use an anti-freeze agent.

12 - GAS CONVERSION



Gas conversion operation from LPG to natural gas or from natural gas to LPG should be performed by authorized service. If the user requests gas transformation after purchase of the device, it is subject to a fee.

For the gas conversion process, a conversion kit is required. The conversion kit includes 1 gas orifice, 1 klingerite gasket and 1 gas conversion label. Procedure for gas conversion;

- Installation of parts in the conversion kit
- Gas adjustment
- Parameter change (P01: 0 for natural gas, P01:1 for LPG)

13- ERROR CODES VE DESCRIPTIONS

Error Code	Error Type	Possible Cause	Troubleshooting
E01	Ignition Fault	No gas connection for combi boiler.	1- Check that the gas valve is open. 2-Check if there is gas in installation. 3- Press reset button. 4- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E02	Erroneous Flame Signal	It is triggered if flame is detected in the burner while gas valve is closed.	1- Press reset button. 2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E03	Over Temperature Warning	It will occur if the temperature of ingoing and outgoing water exceeds 90 °C.	1- Check that water valves of boiler installation are open. 2- If the combi boiler triggers this error in winter mode, check that at least 1 radiator is open. 3- Press reset button. 4- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E05	Failure to receive feedback from the fan for more than 1 minute	Failure of fan or fan cable	1- Press reset button. 2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.

E08	Ignition circuit failure	The electronic card may be failed.	 Press reset button. If the error is still present (or persists) after reset, notify authorized service of E.C.A. Replace electronic card. Check cables of ignition electrode. Check ignition electrode.
E09	Valve provides no feedback	The gas valve may be failed.	1- Press reset button.2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E12	EEPROM check fail	The electronic card may be failed.	1- Press reset button.2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E15	Measurement deviation fault of temperature sensors	Temperature sensors might be defective.	1- Press reset button.2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E16	Error on Temperature Sensor for Outgoing Water	No temperature is detected by temperature sensor for outgoing water.	1- Press reset button. 2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E17	Error on Temperature Sensor for Returning Water	No temperature is detected by temperature sensor for returning water.	1- Press reset button. 2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E18	Temperature Sensor Error	The temperature change on the temperature sensor is too high (> 30°C)	1- Press reset button. 2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E33	Error on Temperature Sensor for Returning Water	The return water temperature sensor is in short or open circuit state.	1- Press reset button. 2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E35	Error on Temperature Sensor for Outgoing Water	The outgoing water temperature sensor is in short or open circuit state.	1- Press reset button. 2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E54	Jammed Siphon Error	Siphon might be jammed.	1- Press reset button. 2- If the error is still present (or persists) after reset, clean the siphon as indicated in users manual. 3- Press reset button after cleaning. 4- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E80	Temperature difference error between ingoing water temperature and outgoing water	Temperature detected by temperature sensor for ingoing water is higher than temperature detected by temperature sensor for outgoing sensor	1- Press reset button. 2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.
E82	Flame failure (more than 3 flame failures in 4 minutes)	Flame detection problem	1- Press reset button. 2- If the error is still present (or persists) after reset, notify authorized service of E.C.A.

	Over Temperature Error	It occurs when the temperature of the	1-1- Notify authorized service
F07	for Flue Gas	flue gas exceeds 95 °C.	of E.C.A.
	lo. The Cus	Pressing of Reset button more than 5	1- Notify authorized service of
F13	Repeated Reset Fault	times in an hour	E.C.A.
		unies in an noui	1- Notify authorized service of
F25	Electronic Card Fault	Electronic Card Firmware Fault	E.C.A.
F34	Low Supply voltage	It occurs when the supply voltage falls	1- Notify authorized service of
	Low Supply Voltage	below 170V.	E.C.A.
			1- Check water pressure in
			heater installation of your
			device.
			2- Fill the system with water
			until the pressure reaches 1.5-
		It occurs when water pressure sensor	2 bar (device will eliminate
F37	Low Water Pressure Fault	detects a relatively low water pressure	error when the pressure is
		(0.4 bar) for your device.	over 0,8 bar).
			3-Check your valves and
			installation against leaks.
			4- If the problem is still
			present (or persists), notify
			authorized service of E.C.A.
			1- Press reset button.
F39	Outer Air Sensor Fault	Outer air sensor might be defective.	2- If the error is still present
			(or persists) after reset, notify
			authorized service of E.C.A.
			1- Check water pressure in
			heater installation of your
		It occurs when water pressure sensor	device.
F40	High Water Pressure Fault	detects a relatively high water pressure	2- Tur off the device and
		(3,3 ±0,3 bar) for your device.	restart it.
		, ,	3- If the error is still present
			(or persists) after reset, notify
			authorized service of E.C.A.
		L.,	1- Press reset button.
F47	Water Pressure Sensor	Water pressure sensor is not plugged in	•
	Error	or there is no contact.	(or persists) after reset, notify
			authorized service of E.C.A.
			1- Press reset button.
F50	Boiler Sensor Fault	Boiler sensor might be defective.	2- If the error is still present
			(or persists) after reset, notify authorized service of E.C.A.
			1- Press reset button.
			2- If the error is still present
F51	PT1000 solar sensor error	PT1000 solar sensor might be defective.	(or persists) after reset, notify
			authorized service of E.C.A.
	Error on temperature		dationized service of Lie.A.
F52	sensor for domestic	Temperature sensor for domestic	1- Notify authorized service of
1 02	water	water might be defective.	E.C.A.
			4 81 .:6 .1
	Error on temperature	The flue gas temperature sensor is in	L- Notity authorized service of I
F53	Error on temperature	The flue gas temperature sensor is in short or open circuit state.	1- Notify authorized service of F.C.A.
	sensor for flue gas	short or open circuit state.	E.C.A.
F53 F81	<u> </u>		-

14- USEFULL INFORMATION ON PRODUCT

14.1- Information on the Efficient Use of the Combi Boiler in Terms of Safety and Energy Consumption

Isolation of your building is extremely important. Energy saving is achieved at a considerable degree since the heat loss is lowest in houses with double-glazed windows and insulated walls.

- The use of thermostatic valves in your radiators ensures that the room temperature is constant or allows you to save money.
- Turning radiator valves lower levels in the rooms which will not be used for a long time and keeping the doors closed keeps fuel consumption low.
- If you use the program clock with your device, the combi boiler operates at the times you set and consumes less fuel.
- If you use your boiler with room thermostat, it keeps the boiler temperature at the level you set and thus allows less fuel consumption.
- Covering the radiator top and sides with furniture-like things negatively affects hot air circulation, thus prevents the environment from overheating and increases fuel consumption.
- If you will leave your device in operation late at night, keeping water temperature of the heating circuit at low levels will ensure saving.
- If you feel that the room temperature is high, the radiator valves should be closed instead of opening windows.

14.2- Clogging in Installation

- In old installations with iron pipes, usually clogging occurs short time after the device is commissioned.
- If clogging in installation is encountered with, then inhibitor (Sentinel X400, etc.) should be added to installation water.

14.3- Cleaning of Boiler

Keep the outer casing of the combi boiler clean by wiping it with a soft damped cloth. Do not use strong, abrasive cleaning agents.

Performing the maintenance once a year during the warranty period and periodically before the winter season after the warranty expires ensures safe use, saves fuel and extends the useful life of the boiler.

Make sure periodic maintenance is strictly performed by E.C.A. Authorized Services.

Use original spares parts only to ensure maximum life span and safety of the device.

E.C.A will not be responsible for damages to device or material or living beings nearby caused by maintenance performed by unauthorized service or staff.

14.4- EXTENDING GUARANTEE PERIOD AND GUARANTEE STARS

14.4.1- EXTENDED WARRANTY

You can extend the guarantee period of your device from 1 year to 3 years by taking advantage of the "Plus Warranty" service within 4 months from the date of the commissioning of your boiler. In the event of a failure during additional warranty period (Plus 1, 2, 3 year(s)) you will not be charged for labor, spare parts and travel costs.

Once in a year during contract period, general maintenance of your boiler can be performed free of charge by an authorized service of E.C.A.

14.4.2- GUARANTEE STARS

You can get warranty of 1 to 3 years for your safely used E.C.A boilers, of which guarantee period expires. Thanks to guarantee stars and through additional warranty, your device with expired guarantee can be provided with maintenance up to 3 years without charging for spare parts, labor and service charges.

General maintenance service is offered free of charge once in every year.

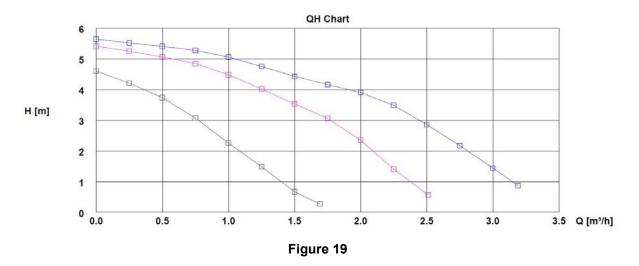
You can contact **Call Center dialing 444 0 322** for 24 hours in a day and your application will be answered within 3 hours, and your boiler will be serviced.

Note: The said guarantee is valid for maximum 10 year old combi boilers in cities where natural gas is used.

15-ANNEXES

15.1- Characteristic curve of water pressure height of the pump (pump head-flow rate)

15-60 (for 24-28-30 kW models)



15-70 (for 35 kW model)

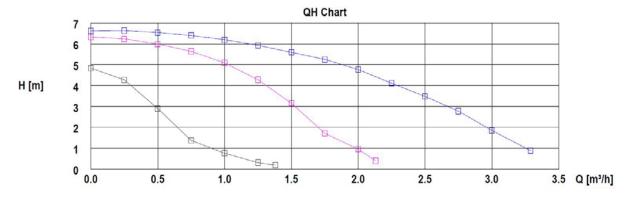
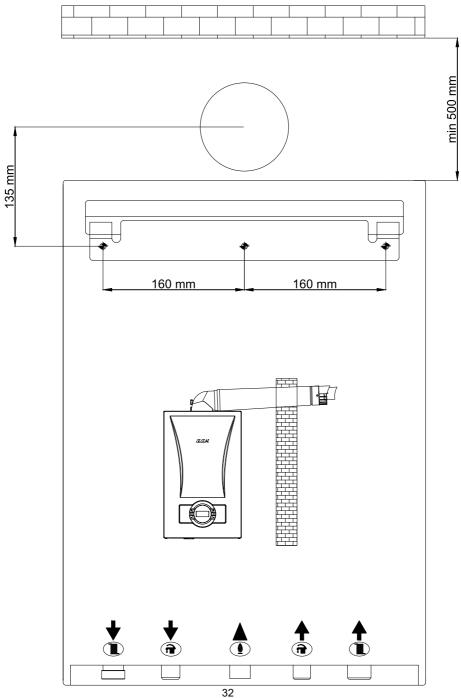
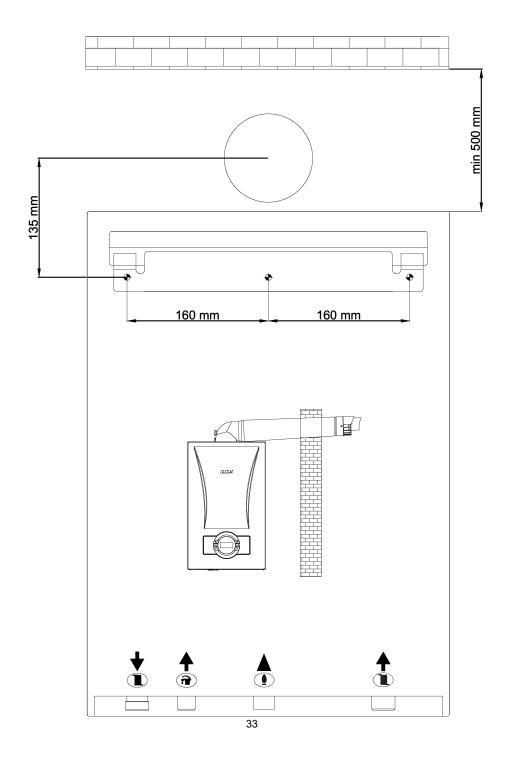


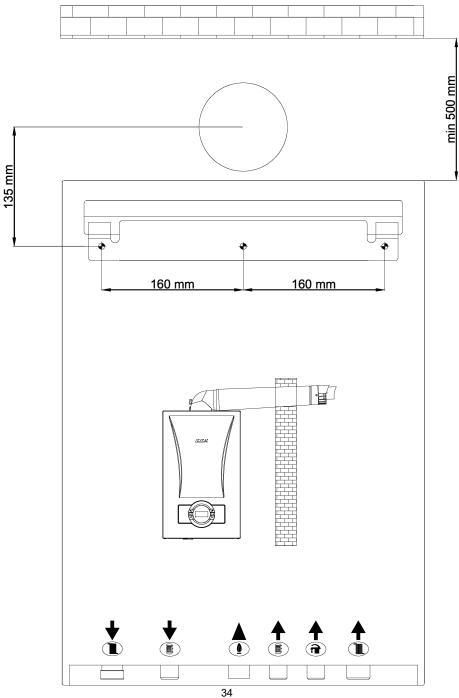
Figure 20

16-INSTALLATION TEMPLATE

16.1 HM Model







16- ERP MANUAL PRODUCT FICHES AND PACKAGE LABEL CALCULATIONS

1. PRODUCT FICHES

Product fiche for combination boilers as required by EU regulations No 811/2013

Proteus Premix Com	bi ERP	Units	its HM MODEL					
Supplier's name or to	rademark		E.C.A.					
Supplier's model ide	ntifier		Proteus Premix 14	Proteus Premix 20	Proteus Premix 24	Proteus Premix 28	Proteus Premix 30	Proteus Premix 35
Space Heating-Temperature application					Med	lium		
Efficiency Class	Seasonal Space heating				A	A		
Efficiency Class	Water heating				A	A		
Water heating load profile			XL	XL	XL	XL	XL	XL
Rated heat output (P _{rated})		kW	14,1	20,2	24,5	28	30	35
Annual energy	San and harding	kWh	12267	17574	21315	24360	26100	30450
consumption	Space heating	GJ	44	63	76	87	94	109
Annual electric consumption	Watankaatia	kWh	1 44					
Annual fuel consumption	Water heating	GJ	18					
F	Seasonal space heating	%	91,2	91,5	92,2	92,4	92	92,9
Energy efficiency	Water heating	%	90,7	90,7	83,6	83,9	82,8	82,8
Sound Power Level L _{wa} indoors		dB	49					
Specific precautions for assembly, installation and maintanence			All specific precautions for installation, assembly and maintanence are described in the installation and service manual.					

Proteus Pre	mix Combi ERP	Units	HCH-HST MODEL					
Supplier's n	ame or trademark		E.C.A.					
Supplier's model identifier			Proteus Premix 14	Proteus Premix 20	Proteus Premix 24	Proteus Premix 28	Proteus Premix 30	Proteus Premix 35
Space Heatin application	ig-Temperature		Medium					
Efficiency Class	Seasonal Space heating		A					
Rated heat o	utput (P _{rated})	kW	14,1	20,2	24,5	28	30	35
Annual energy	Space heating	kWh	12267	17574	21315	24360	26100	30450
consumptio n	Space nearing	GJ	44	63	76	87	94	109
Energy efficiency	Seasonal space heating	%	91,2	91,5	92,2	92,4	92	92,9
	r Level L _{wa} indoors	dВ	B 49					
Specific prec assembly, in maintanence	stallation and		All specific precautions for installation, assembly and maintanence are described in the installation and service manual.					

2. PACKAGE LABEL CALCULATIONS

- 2. Package fiche for boilers indicating the space heating energy efficiency of the package
- 2. 1 Package Fiche-Boilers

Seasonal space heating energy efficiency of boiler

T: The value of the seasonal space heating energy efficiency of the preferential space heater, expressed in %.



Temperature Control

from fiche of temperature control

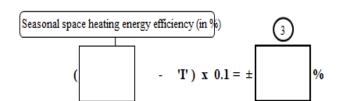
Class I = 1%, Class II = 2%, Class III = 1.5%, Class IV = 2%, Class V = 3%, Class VI = 4%, Class VII = 3.5%, Class VIII = 5%

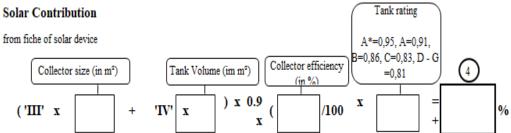


Supplementary

hoiler

from fiche of boiler





'III': The value of the mathematical expression: 294/(11.Prated), whereby 'Prated' is related to the preferential space heater

- 'IV': The value of the mathematical expression: 115/(11.Prated), whereby 'Prated' is related to the preferential space
- (1) If tank rating is above A, use 0.95

Supplementary Heat Pump

from fiche of heat pump

'II': The factor for weighting the heat output of preferential and supplementary heaters of a package as set out in the following table. Seasonal space heating energy efficiency (in %)



- 'I') x 'II'



Solar contribution and Supplementary heat pump

select smaller value



0,5 x OR

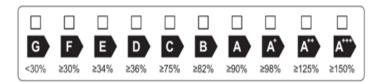


0.5 x

Seasonal space heating energy efficiency class of package



Seasonal space heating energy efficiency class of package



The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

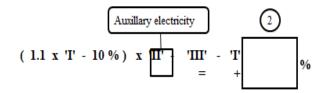
2. 2 Package Fiche-Combination Heaters (Boilers or Heat Pumps)

Water heating energy efficiency of combination heater



Solar Contribution

from fiche of solar device



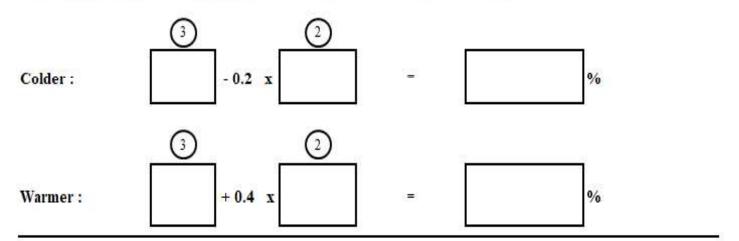
Water heating energy efficiency of package under average climate



Water heating energy efficiency class of package under average climate



Water heating energy efficiency under colder and warmer climate conditions



The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

T The value of the water heating energy efficiency of the combination heater, expressed in %.

'II' The value of the mathematical expression (220. Qref)/Qnonsol, where Qref is taken from Regulation EU 811/2013, Annex VII Table 15 and Qnonsol from the product fiche of the solar device for the declared load profile M, L, XL or XXL of the combination heater.

'III' The value of the mathematical expression (Qaux . 2,5)/(220 . Qref), expressed in %, where Qaux is taken from the product fiche of the solar device and Qref from Regulation EU 811/2013, Annex VII Table 15 for the declared load profile M, L, XL or XXL.

Boiler and supplementary heat pump installed with low temperature heat emitters at

from fiche of heat pump

(50 x 'II') = %

Weighting of Boilers

Psup / (Prated+Psup) ⁽¹⁾⁽²⁾	II, package without hot water storage tank	II, package with hot water storage tank
0	0	0
0.1	0.3	0.37
0.2	0.55	0.70
0.3	0.75	0.85
0.4	0.85	0.94
0.5	0.95	0.98
0.6	0.98	1
> 0.7	1	1

- (1) The intermediate values are calculated by linear interpolation between in two adjacent values.
- (2) Prated is related to the preferential space heater or combination heater.



EMAS MAKINE SANAYI A.Ş.

AT UYGUNLUK BEYANI DECLARATION OF CONFORMITY

ÜRETİCİ EMAS MAKINE SANAYI A.S.

MANUFACTURER Organize Sanavi Bölgesi 3, Kısım Mustafa Kemal Bulvarı No: 13 45030 MANİSA

Tel: +90 236 213 00 21 Faks: +90 236 213 08 59

ONAYLANMIŞ KURULUŞ: 0085-DVGW CERT GmbH

NOTIFIED BODY

DBI Gastechnologisches Institut Ggmbh Freiberg

ÜRÜN ADI : ECA Yoğuşmalı Kombiler PRODUCT NAME ECA Condensing Gas Boilers

PROTEUS PREMIX 14-20-24-28-30-35 HM/HCH/HST DG **INCELENMIS TIPLER** PROTEUS PREMIX 14-20-24-28-30-35 HM/HCH/HST LPG TYPE EXAMINATION

2009/142/AT Gaz Yakan Cihazlar Direktifi / Gas Aplliances Directive 2009/142/EC

FN 15502-1

2016/426 GAR Gaz Yakan Cihazlar Regülasyonu / EU Regulation on Appliances Burning Gaseous Fuels:

EU/2016/426, EN 15502-2-1

Belirli Gerilim Sınırları İçin Tasarlanan Elektrikli Ekipman İle İlgili Yönetmelik (2014/35/EU)

/ Low Voltage Directive 2014/35 EU

EN60335-1. EN 60335-2-102

Elektromanyetik Uyumluluk Yönetmeliği 2014/30/AB / EMC Directive 2014/30/EU

EN 55014-1, EN 55014-2, 61003-2, 61003-3, 61000-4-2, 61000-4-3, 61000-4-4, 61000-4-5,

61000-4-6, 61000-4-11

Aşağıda imzası bulunan şirketimiz yukarıda adı, tipi ve modeli belirlenen cihazları, ekte yer alan B/18/05/2697 EU numaralı rapor dahilinde ilgili standartlara, AT Gaz Yakan Cihazlar ve AT Sıcak Su Kazanlarının Verimlilik Yönetmeliklerine uygun olarak tasarlayıp ürettiği beyan eder.

The undersigned company certifies under its sole responsibility that the item of equipment specified above has been designed, manufactured, inspected and tested as required by the relevant provisions of the EC Gas Appliances Directive and the EC Boiler Efficiency Directive based on the enclosed pages of the EC type examination report No: B/18/015/2697 EU

Yetkili olmayan kişiler tarafından yapılan değişiklikler ya da uygun olmayan kullanım şekilleri bu beyanı geçersiz kılar. / Any unauthorised changes to the supplied products and/or any improper use invalidates this declearation of conformity.

Üretici Adına İmzalayanlar :

Signed On Behalf Of The Manufacturer

Mehmet ÖZOKUMUŞOĞLU Genel Midür İsim (Name)

Görevi (Position) :

General N anager

	SEI	LLER COMPANY
Γitle :		Invoice Date and No :
Address :		Delivery Date and Place:
		Date, Signature and Seal
_	1	PRODUCT'S
Type : Combi boiler wi	th aas fuel	Serial No :
Brand : E.C.A.	gas 100.	Delivery Date and Place :
Model :		
		Warranty Period : 3 Years
_	AUT	CHORIZED SERVICE
Γitle :		Assembly Date :
Address :		-
		Date, Signature and Seal
Phone/Fax :		
		-
FREE INITIA OPE	RATION CO	DUPON
Туре	: Combi boik	er with gas fuel
Brand	: E.C.A.	
Model	:	
Serial No	:	
Assembly Date	:	
Authorized Service's Title	:	
Date	:	
Service Voucher No	:	

|

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