



proteus PREMIX

A graphic element consisting of two blue, wavy lines that sweep across the bottom of the 'proteus' text, resembling a stylized flame or water waves.

**PROTEUS PREMIX
CONDENSING BOILER**

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

OPERATING INSTRUCTIONS



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1-SAFETY RULES AND WARNINGS

1.1. 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 gas safe engineer 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.
- ✓ Telephone number of the **National Gas Emergency Service 0800 111 999**

1.2. 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 installer.
- ✓ Installation for gas supply pipes must be fitted according to BS6891 for GB and I.S.813.2002 for IE.

Install the connection pipes such that they are free from mechanical stress.

1.3. Gas Type Conversion

- ✓ The standard gas type of boiler is Natural Gas. In case of a demanding gas type conversion, this is made with charge.
- ✓ Gas type conversion must be performed by the gas safe engineer. Gas leak test must be made after the conversion operation.
- ✓ Gas conversion label that indicates boiler is converted from NG to LPG must be placed on the boiler after gas type conversion.

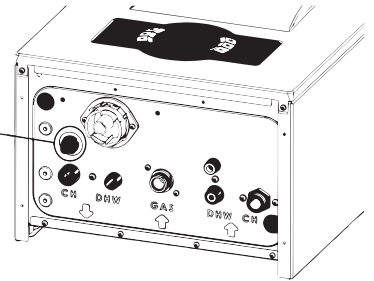
1.4. Installation

- ✓ The boiler must be installed in accordance with national and local requirements, gas safety regulations, relevant standards and this manual by gas safe engineer.
- ✓ The boiler must be mounted against a closed wall.
- ✓ The boiler can not be positioned having direct contact to steam, detergent or gases.
- ✓ Any change of flue position must not be made without consulting gas safe engineer.
- ✓ Sunlight can cause color change on the exterior of your boiler over time.

✓ The boiler 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 boiler is located in an unheated area, it must be connected to mains, switched on, and pressure of installation should be within operation range so that freeze protection would be activated. Even if boiler is OFF position, freeze protection stays activated.

✓ **Connecting the drain pipework for the expansion relief valve**



1.5. Boiler Start Up

- ✓ Boiler start up must be performed certainly by gas safe engineer.
- ✓ 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 gas safe engineer.
- ✓ After boiler start up, you should request information about operating the boiler and safety precautions from gas safe engineer.

1.6. 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 gas safe engineer.
- ✓ 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 boiler.

CAUTION: This boiler 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 boiler by responsible persons. Ensure that children under 8 years do not play with the boiler.



CAUTION: If boiler 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.



CAUTION: The boiler must be transported and lifted by at least 2 people due to heavy weight.



2- NOTES ON THE DOCUMENTATION

Building Regulations and the Benchmark Commissioning Checklist

Building Regulations (England & Wales) require notification of the installation of a heating appliance to the relevant Local Authority Building Control Department. This can be achieved via a Competent Persons Self Certification Scheme as an option to notifying the Local Authority directly.

The Health & Safety Executive operates the 'Gas Safe Register', a self certification scheme for gas heating appliances.

This company is a member of the Benchmark initiative and fully supports the aims of the programme. Its aim is to improve the standards of installation and commissioning of central heating systems in the UK and to encourage the regular servicing of all central heating systems to ensure safety and efficiency. Building Regulations require that installations should comply with manufacturer's instructions. It is therefore important that the commissioning checklist is completed by the installer. The relevant section of Building Regulations only relates to dwellings. Therefore the checklist only applies if the boiler is being installed in a dwelling or some related structure.

Benchmark places responsibilities on both manufacturers and installers. The purpose is to ensure that customers are provided with the correct equipment for their needs, that it is installed, commissioned and serviced in accordance with the manufacturer's instructions by gas safe engineer and that it meets the requirements of the appropriate Building Regulations. The Benchmark Checklist can be used to demonstrate compliance with Building Regulations and should be provided to the customer for future reference.

Installers are required to carry out installation, commissioning and servicing work in accordance with the Benchmark Code of Practice which is available from the Heating and Hotwater Industry Council who manage and promote the scheme.



Visit centralheating.co.uk or installersfirst.co.uk for more information

PRODUCT NAME	PRODUCT CODE	GC NUMBER
PROTEUS PREMIX 14 HM NG ERP UK	8116941010	47-814-30
PROTEUS PREMIX 20 HM NG ERP UK	8116944010	47-814-29
PROTEUS PREMIX 24 HM NG ERP UK	8116450010	47-814-01
PROTEUS PREMIX 28 HM NG ERP UK	8116451010	47-814-02
PROTEUS PREMIX 30 HM NG ERP UK	8116452010	47-814-03
PROTEUS PREMIX 35 HM NG ERP UK	8116453010	47-814-04
PROTEUS PREMIX 14 HST NG ERP UK	8116943010	41-814-54
PROTEUS PREMIX 20 HST NG ERP UK	8116948010	41-814-56
PROTEUS PREMIX 24 HST NG ERP UK	8116458010	41-814-05
PROTEUS PREMIX 28 HST NG ERP UK	8116459010	41-814-06
PROTEUS PREMIX 30 HST NG ERP UK	8116460010	41-814-07
PROTEUS PREMIX 35 HST NG ERP UK	8116461010	41-814-08
PROTEUS PREMIX 14 HCH NG ERP UK	8116942010	41-814-50
PROTEUS PREMIX 20 HCH NG ERP UK	8116946010	41-814-52
PROTEUS PREMIX 24 HCH NG ERP UK	8116454010	41-814-01
PROTEUS PREMIX 28 HCH NG ERP UK	8116455010	41-814-02
PROTEUS PREMIX 30 HCH NG ERP UK	8116456010	41-814-03
PROTEUS PREMIX 35 HCH NG ERP UK	8116457010	41-814-04
PROTEUS PREMIX 14 HM NG ERP YBK UK	8116941110	47-814-26
PROTEUS PREMIX 20 HM NG ERP YBK UK	8116944110	47-814-25
PROTEUS PREMIX 24 HM NG ERP YBK UK	8116450110	47-814-05
PROTEUS PREMIX 28 HM NG ERP YBK UK	8116451110	47-814-06
PROTEUS PREMIX 30 HM NG ERP YBK UK	8116452110	47-814-07
PROTEUS PREMIX 35 HM NG ERP YBK UK	8116453110	47-814-08
PROTEUS PREMIX 14 HST NG ERP YBK UK	8116943110	41-814-62
PROTEUS PREMIX 20 HST NG ERP YBK UK	8116948110	41-814-64
PROTEUS PREMIX 24 HST NG ERP YBK UK	8116458110	41-814-13
PROTEUS PREMIX 28 HST NG ERP YBK UK	8116459110	41-814-14
PROTEUS PREMIX 30 HST NG ERP YBK UK	8116460110	41-814-15
PROTEUS PREMIX 35 HST NG ERP YBK UK	8116461110	41-814-16
PROTEUS PREMIX 14 HCH NG ERP YBK UK	8116942110	41-814-58
PROTEUS PREMIX 20 HCH NG ERP YBK UK	8116946110	41-814-60
PROTEUS PREMIX 24 HCH NG ERP YBK UK	8116454110	41-814-09
PROTEUS PREMIX 28 HCH NG ERP YBK UK	8116455110	41-814-10
PROTEUS PREMIX 30 HCH NG ERP YBK UK	8116456110	41-814-11
PROTEUS PREMIX 35 HCH NG ERP YBK UK	8116457110	41-814-12

Table 1. Product Definition and Codes

HM Model (Boiler) : Both Central Heating (CH) and Domestic Hot Water (DHW).

HCH Model (Heat Only): Only for Central Heating (CH).

HST Model (System Boiler) : Both for Central Heating (CH) and Domestic Hot Water (DHW) with external storage tank (not included).

Usage information of 14/20/24/28/30/35kW HM-HCH-HST Proteus Premix condensing boilers are available in this manual. Detailed information have been provided in the guide regarding the technical specification of the boiler, selection of the boiler location, fitting its water, gas, flue and electric supply connections, gas conversion, maintenance information and solving of possible failures. Please carefully read the manual in order to benefit from all the features of your boiler.

The Benchmark Checklist and Service Record Card are located at the back of the Operating Manual.



The Benchmark Checklist must be filled by gas safe engineer during installation. Operating Manual and Service Manual must be handed over the user for future operations. Service Record Card must be filled by gas safe engineer and handed over the user after each service operation and annual maintenance.

2.1. Installer's Responsibility

The installer is responsible for the installation and initial start-up of the boiler. Instructions are given below.

- ✓ Check Operating Instructions, Installation and Maintenance Instructions and follow instructions before installation.
- ✓ Carry out installation in compliance with the prevailing legislation and standards.
- ✓ Be sure that the system is flushed and inhibitor added.
- ✓ Only gas safe engineer must operate the boiler.
- ✓ Explain the user about installation and operation of boiler.
- ✓ Fill the Commissioning Checklist.
- ✓ Give all Operating and Service manuals to user.
- ✓ The warranty certificate must be registered by gas safe engineer within 30 days after installation.



Indicates that the situation that can only be interfered by gas safe engineer.



Explanation 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.



It means that you may connect ground wire.

2.2. Definition of Symbols

SYMBOL	DEFINITION
	Domestic Hot Water
	Gas Supply
	Parameter Adjustment
R	Reset
	Winter Mode
	Summer Mode
	Solar Panel Mode
ECO	ECO Mode
COMFORT	Comfort Mode
\emptyset	Diameter
LPG	Liquid Petroleum Gas
DHW	Domestic Hot Water
NTC	Negative Temperature Coefficient (sensor)
RCD	Residual Current Device
ECV	Emergency Control Valve
SEDBUK	Seasonal Efficiency of Domestic Boilers in the United Kingdom

Table 2. Definition of Symbols and Abbreviation

3- USEFUL INFORMATION ON PRODUCT

3.1. 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 boiler, 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 boiler 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.

3.2. Clogging in Installation

- ✓ In old installations with iron pipes, usually clogging occurs short time after the boiler is commissioned.
- ✓ If clogging in installation is encountered with, then inhibitor (Sentinel or Fernox etc.) should be added to installation water.
- ✓ For further information visit www.fernox.com or www.sentinel-solutions.net

3.3. Cleaning of Boiler

Keep the outer casing of the combi boiler clean by wiping it with a soft damp 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 gas safe engineer.

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

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

3.4. Boiler Features

Control panel is ergonomic and easy to use. The Proteus Premix condensing 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 boiler, safety of both you and your boiler are fully ensured.

- ✓ 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 Accumulation 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 - HST Model)
- ✓ Automatic Air Vent
- ✓ Expansion Vessel (8 liters)
- ✓ Water ingress protection from flue
- ✓ Annual Maintenance Reminder

3.5. Additional Recommendations by ECA to Customer To Have High Heating Performance:

Make sure that the heating system is clean. Power flushing is the most efficient and effective method of cleaning a central heating system. The principle is to create a powerful fresh water flow under controlled conditions to remove debris from the system. By connecting the power flushing unit to the heating circuit in place of the system pump, boiler or radiator the system can be thoroughly cleaned of lime scale and corrosion debris. Without using correct water treatment, corrosion debris will accumulate in the boiler causing.

Lime scale deposition cause up to 30% of the system's fuel consumption being wasted. The noise of boiler increases as deposits of sludge and scale build-up in an unprotected boiler. The deposits gathering in the waterways of the boiler are causing the heat transfer loss and flow noise. In your heating system use proposed inhibitors as Fernox and Sentinel.

We also advice to use magnetic cleaners for your heating system.

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.

4- TECHNICAL DATA

Product type	Unit	PROTEUS PREMIX 14 HM-HCH-HST	PROTEUS PREMIX 20 HM-HCH-HST	PROTEUS PREMIX 24 HM-HCH-HST	PROTEUS PREMIX 28 HM-HCH-HST	PROTEUS PREMIX 30 HM-HCH-HST	PROTEUS PREMIX 35 HM-HCH-HST
Gas Category		I2H, I3P, I2Esi, I2E(S), II2L3P, II2H3P, II2ELL3P, II2Esi3P					
Flue Types		C ₁₃ (X), C ₃₃ (X), C ₄₃ (X), C ₅₃ (X), C ₆₃ (X), C ₈₃ (X), B ₂₃ , B ₃₃					
Gas Input Pressure (G20)	mbar	20					
Gas Input Pressure (G25)	mbar	20/25					
Gas Input Pressure (LPG G31)	mbar	37/50					
Capacity-Efficiency							
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%
ERP Informations							
Seasonal Space Heating Energy Efficiency Class		A	A	A	A	A	A
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	87,9	87,9	87,9
Efficiency at 30% of rated Output At Low Temperature Regime (η_1)	%	97	97	97,2	97,4	97	97,9
At Full Load elmax	kW	0,028	0,035	0,04	0,051	0,056	0,066
At Part Load elmin	kW	0,012	0,012	0,012	0,012	0,013	0,013
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	0,194	0,22	0,24	0,24
Daily Fuel Consumption (Qfuel)	kWh	22,88	22,88	22,8	22,8	23,021	23,021
Gas Consumption							
Natural Gas (@Min-Max Capacity)	m ³ /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 Capacity)-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

Domestic Hot Water (only valid 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 VAC-50 Hz					
Electrical consumption (For only HCH model)	Watt	26	41	46	71	91	126
Electrical consumption (Max-HE Pump)	Watt	65	80	85	110	130	165
Protection Class		IPX4D					
Expansion Vessel	lt	8					
Weight (Net)	kg	28,5	28,5	28,5	30	30	32
Weight (Net) (only for HCH model)	kg	22,5	22,5	22,5	24	24	26
Dimensions (HxWxD)	mm	678*410*288					
Flue Lengths							
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
Emission 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 Circuit (only valid for HST)							
Operation Range	°C	30-65	30-65	30-65	30-65	30-65	30-65

Table 8. Technical Table

5- ERP TECHNICAL DATA

Proteus Premix Boiler ERP		Units	HM MODEL					
Supplier's name 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 Heating-Temperature application			Medium					
Efficiency Class	Seasonal Space heating		A					
	Water heating		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 consumption	Space heating	kWh	12267	17574	21315	24360	26100	30450
		GJ	44	63	76	87	94	109
Annual electric consumption	Water heating	kWh	44					
Annual fuel consumption		GJ	18					
Energy efficiency	Seasonal space heating	%	91,2	91,5	92,2	92,4	92	92,9
	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 maintenance			All specific precautions for installation, assembly and maintenance are described in the installation and service manual.					

Proteus Premix Boiler ERP		Units	HCH-HST MODEL					
Supplier's name 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 Heating-Temperature application			Medium					
Efficiency Class	Seasonal Space heating		A					
Rated heat output (P_{rated})		kW	14,1	20,2	24,5	28	30	35
Annual energy consumption	Space heating	kWh	12267	17574	21315	24360	26100	30450
		GJ	44	63	76	87	94	109
Energy efficiency	Seasonal space heating	%	91,2	91,5	92,2	92,4	92	92,9
Sound Power Level L_{wa} indoors		dB	49					
Specific precautions for assembly, installation and maintenance			All specific precautions for installation, assembly and maintenance are described in the installation and service manual.					

Table 9. ERP Technical Table

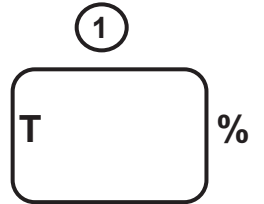
5.1. PACKAGE LABEL CALCULATIONS

Package fiche for boilers indicating the space heating energy efficiency of the package

5.1.1. Package Fiche-Boilers

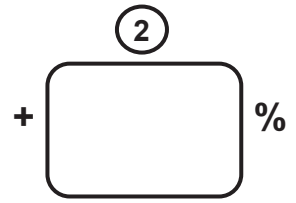
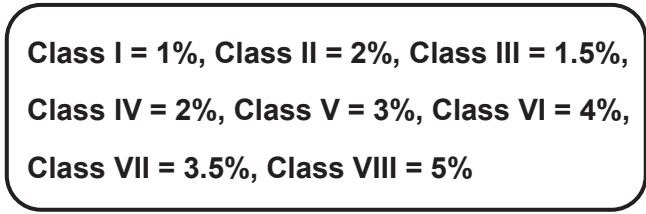
Seasonal space heating energy efficiency of boiler

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

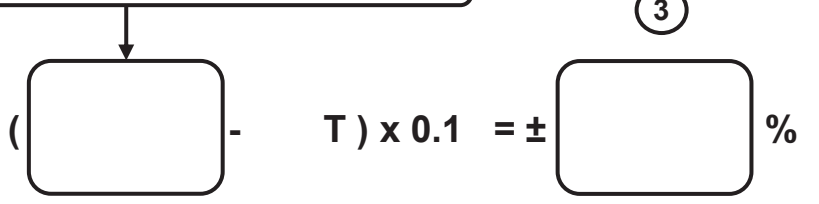
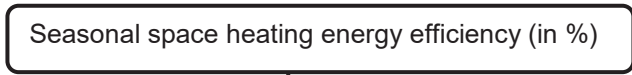


Temperature Control

from fiche of temperature control

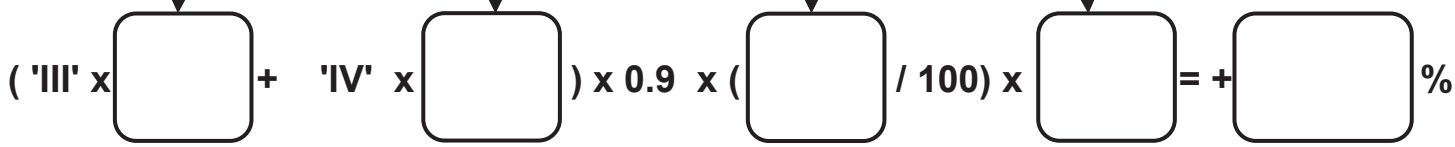
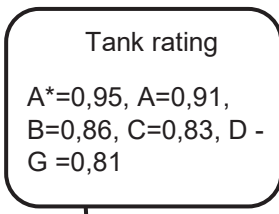
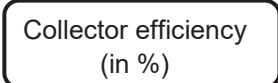
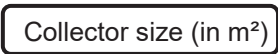


Supplementary Boiler



Solar Contribution

from fiche of solar device



"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 heater.

(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.

$$\text{Seasonal space heating energy efficiency (in \%)} \\ \text{(} \boxed{} \text{ - 'T') } \times \text{'II'} = \boxed{}^{\textcircled{5}} \%$$

Solar Contribution and Supplementary Heat

Pump select smaller value

$$0,5 \times \boxed{}^{\textcircled{4}} \text{ or } 0,5 \times \boxed{}^{\textcircled{5}} = - \boxed{}^{\textcircled{6}} \%$$

Seasonal Space Heating Energy Efficiency Class of Package

$$\boxed{}^{\textcircled{7}} \%$$

Seasonal Space Heating Energy Efficiency Class of Package

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	F	E	D	C	B	A	A⁺	A⁺⁺	A⁺⁺⁺
<30%	≥30%	≥34%	≥36%	≥75%	≥82%	≥90%	≥98%	≥125%	≥150%

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.

Package Fiche-Combination Heaters (Boilers or Heat Pumps)

Water heating energy efficiency of combination heater

Declared load profile :

$$\boxed{\text{T } }^{\textcircled{1}} \%$$

Solar Contribution

from fiche of solar device

$$(1.1 \times 'I' - 10 \%) \times 'II' - \boxed{\text{Auxillary electricity}} \times 'III' - 'I' = + \boxed{\text{2}} \%$$

Water Heating Energy Efficiency of Package under Average Climate

$$\boxed{\text{3}} \%$$

Water Heating Energy Efficiency Class of Package under Average Climate

		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		G	F	E	D	C	B	A	A⁺	A⁺⁺	A⁺⁺⁺
<input type="checkbox"/>	M	<27%	≥27%	≥30%	≥33%	≥36%	≥39%	≥65%	≥100%	≥130%	≥163%
<input type="checkbox"/>	L	<27%	≥27%	≥30%	≥34%	≥37%	≥50%	≥75%	≥115%	≥150%	≥188%
<input type="checkbox"/>	XL	<27%	≥27%	≥30%	≥35%	≥38%	≥55%	≥80%	≥123%	≥160%	≥200%
<input type="checkbox"/>	XXL	<28%	≥28%	≥32%	≥36%	≥40%	≥60%	≥85%	≥131%	≥170%	≥213%

Water Heating Energy Efficiency under Colder and Warmer Climate Conditions

Colder:

$$\boxed{\text{3}} - 0.2 \times \boxed{\text{2}} = \boxed{\text{ }} \%$$

Warmer:

$$\boxed{\text{3}} + 0,4 \times \boxed{\text{2}} = \boxed{\text{ }} \%$$

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.

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

'II' The value of the mathematical expression $(220 \cdot Q_{ref})/Q_{nonsol}$, where Q_{ref} is taken from Regulation EU 811/2013, Annex VII Table15 and Q_{nonsol} 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 $(Q_{aux} \cdot 2,5)/(220 \cdot Q_{ref})$, expressed in %, where Q_{aux} is taken from the product fiche of the solar device and Q_{ref} from Regulation EU 811/2013, Annex VII Table 15 for the declared load profile M, L, XL or XXL.

6- USING THE BOILER

6.1. Switching Off the Boiler

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.

7- CONTROL PANEL



Figure 24 Control Panel View

7.1. Functions of Buttons

The control panel consists of the relevant elements as shown in figure 24 below.

A-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 boiler will switch into "standby" position. It will enough to press the button once to get the boiler in operation position.

B-Reset Button

Main functions:

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

When your boiler 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 boiler 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 boiler starts, it will start working in Comfort mode.

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

C-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.

D-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.

E- 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.

F-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.

7.2. LCD Screen

LCD screen display icons described here below.

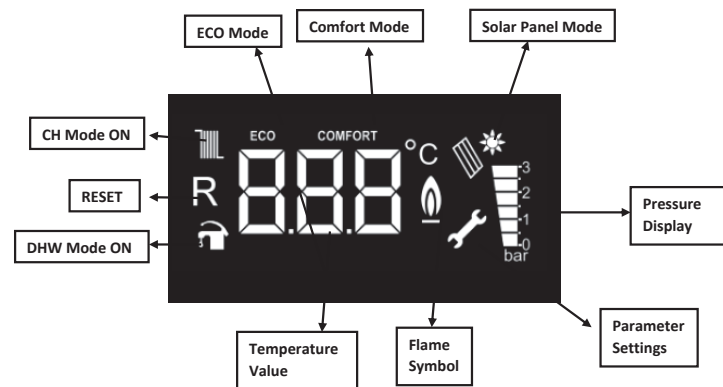


Figure 25. Description of Symbols

7.2.1.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.

7.2.2.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.

7.3. Operation Functions

7.3.1. Standby (OFF Mode): The mode where boiler 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.

7.3.2. Air Purge Mode (AP Mode): It is the process that the boiler 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 and 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 boiler 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,



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

7.3.3. Winter mode-Radiator Heating: If the boiler in the standby position is set to the winter position, it 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.

7.3.4. Summer Mode: If the boiler in the OFF position is set to the summer position, the boiler 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/sec). In this mode, the domestic hot water temperature can be adjusted between 30-65 °C.

7.3.5. Comfort Mode: The standard operating mode of the boiler 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 boiler responds to fast heating demands by running in modulation.

7.3.6. 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.



7.3.7. Annual Maintenance

Reminder: This mode reminds user that "annual maintenance time is very soon". When this mode is active, only "ASE" is displayed on screen and boiler continues to meet heating requests. Electrical connection of boiler must be always connected to mains, otherwise function will not work properly. When you see "ASE" on screen, please check your boiler start up date and contact with gas safe engineer if annual maintenance period is arrived. If maintenance of the boiler is done before "ASE" appears on screen, you can skip it by pressing "R" button.

7.3.8. Anti-Frost Mode: During the winter season, when the installation water temperature falls below 6 ° C, the anti-freeze function is activated and the boiler 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 boiler 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 boiler, it does not protect your installation.
- ✓ If the boiler 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

8-ERROR CODES AND DESCRIPTION

Error Code	Error Type	Possible Cause	Troubleshooting
E01	Ignition Fault	No gas connection for combi boiler.	<p>1- Check that the gas valve is open.</p> <p>2- Check if there is gas in installation.</p> <p>3- Press reset button.</p> <p>4- If the error is still present (or persists) after reset, notify gas safe engineer.</p>
E02	False Flame Signal	It is triggered if flame is detected in the burner while gas valve is closed.	<p>1- Press reset button.</p> <p>2- If the error is still present (or persists) after reset, notify gas safe engineer.</p>
E03	Over Temperature Warning	It will occur if the temperature of return and supply water exceeds 90 C	<p>1- Check that water valves of boiler installation are open.</p> <p>2- If the combi boiler triggers this error in winter mode, check that at least 1 radiator is open.</p> <p>3- Press reset button.</p> <p>4- If the error is still present (or persists) after reset, notify gas safe engineer..</p>
E05	Failure to receive feedback from the fan for more than 1 minute	Failure of fan or fan cable	<p>1- Press reset button.</p> <p>2- If the error is still present (or persists) after reset, notify gas safe engineer.</p>
E08	Ignition circuit failure	The electronic card may be failed.	<p>1- Press reset button.</p> <p>2- If the error is still present (or persists) after reset, notify gas safe engineer.</p> <p>1- Replace electronic card.</p> <p>2- Check cables of ignition electrode.</p> <p>3- Check ignition electrode.</p>
E09	Valve provides no feedback	The gas valve may be failed.	<p>1- Press reset button.</p> <p>2- If the error is still present (or persists) after reset, notify gas safe engineer.</p>
E12	EEPROM check fail	The electronic card may be failed.	<p>1- Press reset button.</p> <p>2- If the error is still present (or persists) after reset, notify gas safe engineer.</p>

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 gas safe engineer.
E16	Error on Temperature Sensor for Supply Water	No temperature is detected by temperature sensor for supply water.	1- Press reset button. 2- If the error is still present (or persists) after reset, notify gas safe engineer.
E17	Error on Temperature Sensor for Return Sensor	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 gas safe engineer.
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 gas safe engineer.
E21	Analog digital converter failure	The electronic card may be failed.	1- Press reset button. 2- If the error is still present (or persists) after reset, notify gas safe engineer.
E33	Error on Temperature Sensor for Return Sensor	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 gas safe engineer.
E35	Error on Temperature Sensor for Supply Water Temperature	The supply 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 gas safe engineer.
E80	Temperature difference error between return water temperature and supply water	Temperature detected by temperature sensor for return water is higher than temperature detected by temperature sensor for supply sensor	1- Press reset button. 2- If the error is still present (or persists) after reset, notify gas safe engineer.
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 gas safe engineer.
F07	Over Temperature Error for Flue Gas	It occurs when the temperature of the flue gas exceeds 95 °C.	1- Notify gas safe engineer.
F13	Repeated Reset Fault	Pressing of Reset button more than 5 times in an hour	1- Notify gas safe engineer.
F25	Electronic Card Fault	Electronic Card Firmware Fault	1- Notify gas safe engineer.
F34	Low Supply voltage	It occurs when the supply voltage falls below 170V.	1- Notify gas safe engineer.

F37	Low Water Pressure Fault	It occurs when water pressure sensor detects a relatively low water pressure (0.4 bar) for your device.	<p>1- Check water pressure in heater installation of your boiler.</p> <p>2- Fill the system with water until the pressure reaches 1.5-2 bar (device will eliminate error when the pressure is over 0,8 bar).</p> <p>3- Check your valves and installation against leaks.</p> <p>4- If the problem is still present (or persists), notify gas safe engineer.</p>
F39	Outdoor Sensor Fault	Outdoor sensor might be defective.	<p>1- Press reset button.</p> <p>2- If the error is still present (or persists) after reset, notify gas safe engineer.</p>
F40	High Water Pressure Fault	It occurs when water pressure sensor detects a relatively high water pressure (3,3 ±0,3 bar) for your device.	<p>1- Check water pressure in heater installation of your boiler.</p> <p>2- Turn off the device and restart it.</p> <p>3- If the error is still present (or persists) after reset, notify gas safe engineer.</p>
F47	Water Pressure Sensor Error	Water pressure sensor is not plugged in or there is no contact.	<p>1- Press reset button.</p> <p>2- If the error is still present (or persists) after reset, notify gas safe engineer.</p>
F50	Boiler Sensor Fault	Boiler sensor might be defective.	<p>1- Press reset button.</p> <p>2- If the error is still present (or persists) after reset, notify gas safe engineer.</p>
F51	PT1000 solar sensor error	PT1000 solar sensor might be defective.	<p>1- Press reset button.</p> <p>2- If the error is still present (or persists) after reset, notify gas safe engineer.</p>
F52	Error on temperature sensor for domestic water	Temperature sensor for domestic water might be defective.	1- Notify gas safe engineer.
F53	Error on temperature sensor for flue gas	The flue gas temperature sensor is in short or open circuit state.	1- Notify gas safe engineer.
F58	Flue Gas Lock Out at High Temperature	If it gives an error F07 twice in 1 month, this error will occur.	1- Notify gas safe engineer.
F81	Temperature sensor deviation test delay	Temperature sensors might be defective.	1- Notify gas safe engineer.

Table 13.Error Code Table

9-WARRANTY AND SERVICE

Warranty Registration



Scan the QR code to register your warranty or visit www.ecaboilers.co.uk



For Full Terms and Warranty Conditions visit www.ecaboilers.co.uk. The full terms and conditions must be strictly followed in order to manufacturer's warranty valid.

TERMS AND CONDITIONS FOR WARRANTY of ECA Boiler:

1.The appliance has warranty period against product failures in condition that the instructions and precautions in the documents delivered with the product are obeyed. These documents are operating-installation manual and service (includes maintenance operation) manual. The warranty period will not be extended in case of repairing or replacing any product or part. Manufacturer might introduce additional warnings/documents in case needed and deliver with the product. These documents are also binding for the products delivered with the additional documents.

2.The appliance has been used for which it is designed. Heating system inline with product capacity etc.

3.The installation must be carried out only by a registered Gas Safe installer. Benchmark Commissioning checklist must be completed and left with the householder for future reference. Boiler must be registered by either installer or homeowner within 30 days of installation to validate warranty. Should this condition not be met the period of warranty will extend to only 12 months from date of manufacturing on the boiler data plate (in case proof of purchase or benchmark commissioning checklist is not available).

4.At the end of each 12 month period, the boiler must be serviced by a Gas Safe registered engineer according to service manual provided with the boiler. After service operation, Benchmark service record sheet must be completed and left with the householder. Should this condition not be met the boiler warranty will lapse.

5.If the boiler suffers a mechanical or an electrical breakdown please contact your gas safe engineer on +44 800 640 9988 Our normal working times, excluding Bank Holidays are: 8am – 5pm Monday to Friday, 8am – 1pm Saturday, We will arrange for an engineer or appointed contractor, to inspect and repair, or where in our sole opinion repairs not economic, arrange to replace the boiler.

6.We will not accept or reimburse the costs of any third party who undertakes any work carried on the product or fits parts, unless approval is given by the means mentioned in point 5 such work in advance of it being carried out.

7.The boiler has to be installed at an accessible area where Engineers can perform servicing without health and safety risk.

8.Cupboard installations must provide minimum working clearances as detailed in the installation manual. Homeowner will provide removal of cupboards, kitchen units or trims in order to gain access for service.

9.The warranty does not apply:

- a. If the boiler is removed from its place of installation and/or installation interfaces have been changed without our prior consent.
- b. E.C.A will not accept responsibility for damage caused by faulty installation, neglect, misuse or accidental damage, the non-observance of the instructions contained in the service manual.
- c. To any defect, damage or breakdown caused by the installation and maintenance of the CH system.
- d. Noisy boiler, cold spots on radiators, sludge in pipes and poor circulation of the central heating system caused by any damage due to scaling, sludge or blockages as a result of hard water, scale, deposits, damage, aggressive water or sludge due to corrosion. Subsequently maintenance and cleaning of the system.
- e. If the contact procedure defined in point 5 is not adhered to
- f. To any other costs or expenses caused by or arising due to the breakdown of an E.C.A. Boiler.
- g. Damage caused by faulty installation (boiler, flue system or condensate discharge), theft, tampering, neglect, misuse, accident, fire, flood, explosion, lightning, storms, earthquake, frost or other bad weather conditions.
- h. To any costs incurred during delays in fixing reported faults.
- i. Costs of each annual maintenance, including parts such as seals or electrodes replaced at this time
- j. Any problems caused by inadequate supply of services such as electricity, gas or water to the property.
- k. The boilers which are not installed and set up strictly in line with the installation instructions supplied with them (including the requirement to clean the system and add corrosion inhibitor in line with BS7593:1992).
- l. Where spare parts other than E.C.A. parts have been used in any service or repair. In this case, the warranty for such products is not valid furthermore.
- m. Theft or attempted theft
- n. Self-maintenance tasks such as re-pressurizing and resetting the boiler, bleeding excess system pressure and thawing frozen condensate pipes.

10. Visits by the service personnel would be charged to customer if;

- a) any failure caused by contaminated water in the system
- b) the boiler is not accessible or an engineer cannot gain access to the property
- c) a fault cannot be found.
- d) Benchmark commissioning sheet or equivalent control document is not available.
- e) Failure to cancel an agreed appointment prior to our engineers visit at least before 12 noon on the day preceding the agreed appointment in order to arrange an alternative date.
- f) The boiler is outside the period of warranty or any warranty ending condition mentioned in point 9 occurs.
- g) the fault is not product related, or alternatively if the fault is due to an installation error or because the system requires cleansing. Our engineer will advise you of this on the day and we reserve the right to charge an inspection fee.

11. The customer is responsible for the following points during visits by the service personnel;

- a. The customer is has to be available to be contacted 30 minutes prior to the appointment. If not, our engineer will proceed to attend the appointment.
- b. You are responsible for providing adequate parking for our engineer.
- c. Our engineers are entitled to work in a smoke free environment and as such, you are required to ensure that the engineer is not exposed to active smoking whilst he is within the property.
- d. It is your responsibility to ensure that pets are away from the area where the engineer needs to work e. We reserve the right to cancel an appointment and to retain an inspection fee should legal parking not be provided, or if we are unable to obtain clear and safe access to the property or product, or if we have reason to believe that the health and safety of our engineer cannot be guaranteed.
- f. If chargeable works are required, we will not service until payment is made.
- g. We reserve the right to not fulfill an appointment, should the necessary spares be unavailable, if the product is subject to recall or if the product has become obsolete and removed from our current product list.
- h. For all engineer visits out of warranty we will normally ask for payment details (credit/debit card) prior to booking an engineer appointment. These details will be used to reserve our charge on your account. Once the engineer appointment is concluded this charge will then be debited from your account.
- i. You are required to provide telephone contact numbers to enable us to contact you in the course of arranging and fulfilling your appointment. In the course of arranging and fulfilling your appointment we may choose to contact you via phone, text, fax or e-mail.

Charges

- Servicing and Commissioning appointments are charged at a fixed price inclusive of VAT, with the price being dependant on the product. Spare Parts Guarantee
- Any parts fitted under one of the chargeable call types above are guaranteed for one calendar year against defective workmanship and defective components.
- If we fit replacement parts or replace a boiler it will not extend the period of the warranty. All replaced parts or boilers will become the property of E.C.A.
- If your service visit was done on a fixed charge basis and it becomes evident, within 30 days of the original appointment, that your product has not been successfully repaired then we will return to repair the product free of charge, but subject to the same terms and conditions. If however, a new fault has developed since the original appointment, then we reserve the right to charge for the second appointment in line with our terms and conditions. If you smell gas or are worried about gas safety, you can call the National Gas Emergency Service free on 0800 111 999 at any time, day or night.

This boiler warranty is offered in addition to the rights provided to a consumer by law. Details of these rights can be obtained from a Trading Standards Authority or a Citizen Advice Bureau.

We reserve the right to update or amend these Terms and Conditions at any time and its decision in relation to warranty claims shall be final.

Your guarantee is provided to you by **ARD London (registered in England with company number +44 800 640 9988 or +44 20 3978 1212) of Guarantor – ARD London**, Adres: 15 / a Raven Road London E18 1HB

Data Protection

Your details will be kept safe and secure, only used by us or those who partner with us, and will not be shared with anyone else. By submitting your details, you are telling us that you are okay with this and that you agree with our privacy notice. You can of course, change your mind at any time. If you have given us permission, your details may also be used by us or third parties for other marketing purposes. We and the third parties (if applicable) may contact you by mail, telephone or email. If you no longer want your data to be used by third parties or by us for marketing purposes, please contact us.

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Address : 15 / A Raven Road London E18 1HB

**Activating your guarantee is quick and
simple, but really important!**

Register at

www.ecaboilers.co.uk/warranty-registration

complete and return in the envelope provided

QR code



scan me

7006991158 - 8.0

