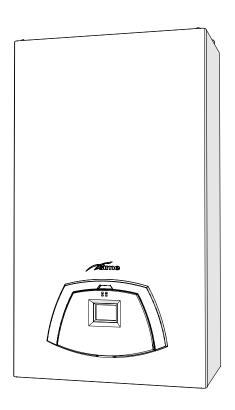


Condensing wall mounted boiler

EDEA

USER, INSTALLATION AND SERVICING INSTRUCTIONS



ENSURE THAT THESE
INSTRUCTIONS ARE LEFT
FOR THE USER AFTER
COMPLETION OF THE
BENCHMARK SECTION

PLEASE READ THE
IMPORTANT NOTICE
WITHIN THIS GUIDE
REGARDING YOUR BOILER
WARRANTY













To consult the documentation, visit our website www.sime.it



BOILER DETAILS

please position here a sticker from installation pack



RANGE RATED CERTIFICATION

The maximum power, in heating mode, of **Edea** boilers can be adapted, during the installation, to the thermal needs of the system by modifying the setting of PAR 15 in the **0** .. **100** range.

The setting of PAR 15 = 100 is the factory setting that allows the boiler to deliver its maximum power in heating mode. It can be reduced by modifying the setting of PAR 15 as shown in the table appearing below.

Once the new setting of PAR 15 has been made, the reduced maximum power value (kW) for models with power above 35 kW MUST MANDATORILY be applied beside the boiler's data plate. For checks and adjustments after the modification, refer to the new value for the maximum power.

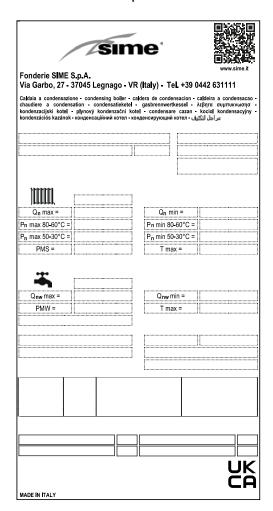
The useful nominal power levels used are those relative to the operating conditions (80-60°C) (Pn min - Pn max).

Example for Edea 30:

- default heating power range: 2,8 24,5 setting of PAR 15 = 100
- "reduced" heating power range: 2,8 18,9 setting PAR 15 = 80

		Edea						
DESCRIPTION		30		4	40	C W. (DAD 45		
		Min	Max	Min	Max	Setting of PAR 15		
A - Factory power range (heating)	kW	2,8	24,5	4,2	34,1	100		
	kW	2,8	21,2	4,2	30,7	90		
	kW	2,8	18,9	4,2	27,3	80		
B - Reduced power ranges for	kW	2,8	16,5	4,2	23,9	70		
maximum power reduction – (heating) –	kW	2,8	14,2	4,2	20,5	60		
	kW	2,8	11,8	4,2	17,0	50		
_	kW	2,8	9,4	4,2	13,6	40		

Boiler technical data plate





IMPORTANT NOTICE

For the first year all of our appliances are protected by our manufacturer's guarantee which covers both parts and

As you would expect from Sime Ltd, it is our aim to provide our valued customers with the best in after sales and service

To take advantage of any extended warranty offered, all you have to do is to adhere to these 3 simple conditions:

- The installation must be carried out to Manufacturers/Benchmark Standards by a Gas Safe Registered Engineer, and recorded in the installation manual.
- The appliance must be registered with both Sime Ltd and Gas Safe within 30 days of installation.
- The appliance must be serviced every 12 months, within 30 days of the anniversary of the installation date, by either Sime Ltd or a Gas Safe registered engineer- ensuring that the Benchmark service record in the installation manual is completed.

Failure to comply with the above will result in only the 12 month warranty being offered. In the absence of any proof of purchase, the 12 month warranty period will commence from the date of manufacture of the boiler as shown on the appliance data plate.

SAFE HANDLING

This boiler may require 2 or more operatives to move it into its installation site, remove it from its packaging and during movement into its installation location. Manoeuvring the boiler may include the use of a sack truck and involve lifting pushing and pulling.

Caution should be exercised during these operations.

Operatives should be knowledgeable in handling techniques when performing these tasks and the following precautions should be considered:

- Grip the boiler at the base
- Be physically capable
- Use personal protective equipment as appropriate e.g. gloves, safety footwear.

During all manoeuvres and handling actions, every attempt should be made to ensure the following unless unavoidable and/or the weight is light.

- Keep back straight
- Avoid twisting at the waist
- Always grip with the palm of the hand
- Keep load as close to the body as possible
- Always use assistance

WARNING

Caution should be exercised when performing any work on this appliance.

Protective gloves and safety glasses are recommended.

- Avoid direct contact with sharp edges.
- Avoid contact with any hot surfaces.

NOTICE

Please be aware that due to the wet testing of the appliance, there may some residual water in the hydraulic circuit.

- Protect any surfaces, carpets or floorings.
- Use a suitable container to catch any water that escape when removing the protective caps from the connections.

All descriptions and illustrations provided in this manual have been carefully prepared but we reserve the right to make changes and improvements in our products that may affect the accuracy of the information contained in this manual.



Code Of Practice

For the installation, commissioning and servicing of domestic heating and hot water products

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 competent persons and that it meets the requirements of the appropriate Building Regulations. Installers are required to carry out work in accordance with the following:

Standards of Work

- Be competent and qualified to undertake the work required.
- Install, commission, service and use products in accordance with the manufacturer's instructions provided.
- Ensure that where there is responsibility for design work, the installation is correctly sized and fit for purpose.
- Meet the requirements of the appropriate Building Regulations. Where this involves notifiable work be a member of a Competent Persons Scheme or confirm that the customer has notified Local Authority Building Control (LABC), prior to work commencing.
- Complete all relevant sections of the Benchmark Checklist/Service Record when carrying out commissioning or servicing of a product or system.
- Ensure that the product or system is left in a safe condition and, whenever possible, in good working order.
- Highlight to the customer any remedial or improvement work identified during the course of commissioning or servicing work.
- Refer to the manufacturer's helpline where assistance is needed.
- Report product faults and concerns to the manufacturer in a timely manner.

Customer Service

- Show the customer any identity card that is relevant to the work being carried out prior to commencement or on request.
- Give a full and clear explanation/demonstration of the product or system and its operation to the customer.
- Hand over the manufacturer's instructions, including the Benchmark Checklist, to the customer on completion of an installation.
- Obtain the customer's signature, on the Benchmark Checklist, to confirm satisfactory demonstration and receipt of manufacturer's instructions.
- Advise the customer that regular product servicing is needed, in line with manufacturers' recommendations, to ensure that safety and efficiency is maintained.
- Respond promptly to calls from a customer following completion of work, providing advice and assistance by phone and, if necessary, visiting the customer.
- Rectify any installation problems at no cost to the customer during the installer's guarantee period.



*The use of the word "installer" is not limited to installation itself and covers those carrying out installation, commissioning and/or servicing of heating and hot water products, or the use of supporting products (such as water treatment or test equipment).

**Customer includes householders, landlords and tenants.



The Benchmark Scheme

Sime Ltd is a licensed member of the Benchmark Scheme which aims to improve the standards of installation and commissioning of domestic heating and hot water systems in the UK and to encourage regular servicing to optimise safety, efficiency and performance.

Benchmark is managed and promoted by the Heating and Hotwater Industry Council.

For more information visit www.centralheating.co.uk.

Please ensure that the installer has fully completed the Benchmark Checklist in the use and maintenance section of the installation instructions supplied with the product and that you have signed it to say that you have received a full and clear explanation of its operation.

The installer is legally required to complete a commissioning checklist as a means of complying with the appropriate Building Regulations (England and Wales).

All installations must be notified to Local Area Building Control either directly or through a Competent Persons Scheme.

A Building Regulations Compliance Certificate will then be issued to the customer who should, on receipt, write the Notification Number on the Benchmark Checklist.

This product should be serviced regularly to optimise its safety, efficiency and performance.

The service engineer should complete the relevant Service Record on the Benchmark Checklist after each service. The Benchmark Checklist may be required in the event of any warranty work and as supporting documentation relating to home improvements in the optional documents section of the Home Information Pack.

Important Information

IT IS A STATUTORY REQUIREMENT THAT ALL GAS APPLIANCES ARE INSTALLED BY COMPETENT PERSONS, IN ACCORDANCE WITH THE GAS SAFETY (INSTALLATION AND USE) REGULATIONS (CURRENT EDITION). The manufacturer's instructions must not be taken as overriding any statutory requirements, and failure to comply with these regulations may lead to prosecution.

No modifications to the appliance should be made unless they are fully approved by the manufacturer.

GAS LEAKS: DO NOT OPERATE ANY ELECTRICAL SWITCH, OR USE A NAKED FLAME. TURN OFF THE GAS SUPPLY AND VENTILATE THE AREA BY OPENING DOORS AND WINDOWS CONTACT THE GAS EMERGENCY SERVICE ON 0800111999.



Please refer to commissioning instructions for filling in the checklist at the back of this installation guide.

Note: All Gas Safe registered installers carry a ID Card.

You can check your installer is Gas Safe Registered by calling 0800 408 5577

SIME COMBINATION BOILERS Installer checklist

Please remember to carry out the following checks after installation. This will achieve complete customer satisfaction, and avoid unnecessary service calls. A charge will be made for a service visit where the fault is not due to a manufacturing defect.

- Has a correct by-pass been fitted and adjusted?
- Has the system and boiler been flushed?
- Is the system and boiler full of water, and the correct pressure showing on the pressure gauge?
- Is the Auto Air Vent open?
- Has the pump been rotated manually?
- Is the gas supply working pressure correct?
- Is the boiler wired correctly? (See installation manual).
- Has the D.H.W. flow rate been set to the customer requirements?
- Has the customer been fully advised on the correct use of the boiler, system and controls?
- Has the Benchmark Checklist in the use and maintenance section of this manual, been completed?



SAFETY WARNINGS AND REGULATIONS



WARNINGS

- After having removed the packaging make sure that the product supplied is integral and complete in all its parts.
 If this is not the case, please contact the Dealer who sold the appliance.
- The appliance must be used as intended by Sime Ltd who is not responsible for any damage caused to persons, animals or things, improper installation, adjustment, maintenance and improper use of the appliance.
- In the event of water leaks, disconnect the appliance from the mains power supply, close the water mains and promptly inform professionally qualified personnel.
- Periodically check that the operating pressure of the water heating system when cold is 1-1.2 bar. If this is not the case, increase the pressure or contact professionally qualified personnel.
- If the appliance is not used for a long period of time, at least one of the following operations must be carried out:
 - -set the main system switch to "OFF";-close the gas and water valves for the water heating system.
- In order to ensure optimal appliance operations Sime Ltd recommends that maintenance and checks are carried out ONCE A YEAR.
- If the power cable is damaged, replace it with a cable ordered as a spare part with the same characteristics (type X). Assembly must be by carried out by a qualified professional.



WARNINGS

- It is recommended that all operators read this manual carefully in order to use the appliance in a safe and rational manner.
- This manual is an integral part of the appliance. It must therefore be kept for future reference and must always accompany the appliance in the event the appliance is transferred or sold to another Owner or User or is installed on another system.
- Installation and maintenance of this appliance must be carried out by a qualified company or by a professionally qualified technician in accordance with the instructions contained in the manual. Once the work is complete, the company or technician will issue a declaration of conformity with national and local technical standards and legislation in force in the country where the appliance will be used.
- Any repairs on the appliance must be carried out solely by professionally qualified personnel, using original spare parts only. Failure to comply with these instructions can jeopardise the appliance's safety and void the warranty with immediate effect.
- Fonderie SIME S.p.A. reserves the right to make improvements to its products at any time without prior notice, without compromising their essential characteristics. The graphic illustrations and/or images in this document may show optional accessories that vary according to the country in which the appliance is used.

6





IT IS FORBIDDEN

- To allow children under the age of 8 to use the appliance. The appliance can be used by children no younger than 8 years old, by people with physical or cognitive disabilities, and by people lacking experience or the necessary knowledge, provided that they are supervised or have been instructed on how to use the appliance safely and that they understand the risks associated with it.
- To allow children to play with the appliance.
- To allow unsupervised children to perform user maintenance and cleaning.
- To use electrical devices or appliances such as switches, electrical appliances etc if you can smell fuel. If this should happen:
 - -open the doors and windows to air the room:
 - -close the gas isolation device;
 - -promptly call for professional assistance.
- To touch the appliance with bare feet or with any wet part of the body.
- To carry out any technical intervention or cleaning operation before having disconnected the appliance from the mains power by setting the main switch to "OFF", and closing the gas supply.
- To modify the safety or adjustment devices without authorization and instructions from the manufacturer.



IT IS FORBIDDEN

- To block the condensate drain (if present).
- To pull, detach or twist the electrical cables coming out of the appliance even if the appliance is disconnected from the mains power supply.
- To expose the appliance to the elements. It is suitable for operating in a partially protected area in accordance with the EN 15502 standard, with a maximum ambient temperature of 60 °C and minimum 5 °C. We recommend installing the appliance under a pitched roof extension, on a balcony or in a protected recess, none-theless never exposed directly to the elements (rain, hail, snow). The appliance is equipped with a series of anti-freeze functions.
- To block or reduce the size of the ventilation openings of the room where the appliance is installed, if present.
- Remove the mains power and gas supply from the appliance if the external temperature could fall <u>below</u> ZERO (risk of freezing).
- To leave containers with flammable substances in the room where the appliance is installed.
- To dispose of the packaging material irresponsibly as it could be dangerous. Packaging must be disposed of as specified by the legislation in force in the country where the appliance will be used.

7



Dear Customer,

Thank you for purchasing a **Sime Ltd Edea** boiler, a new-generation modulating condensing device with technical features and excellent performance, allowing you to satisfy your heating and instant domestic hot water requirements with the utmost safety and limited running costs.

RANGE

MODEL	CODE	GAS COUNCIL NUMBER		
EDEA 30	8116900	GC No 47-283-91		
EDEA 40	8116902	GC No 47-283-92		

COMPLIANCE

Our company declares that the **Edea** appliances conform to the essential requirements of the following directives:

- Gas Appliances EU Regulation 2016/426
- Boiler Efficiency Directive 92/42/EEC
- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU
- Ecodesign Directive 2009/125/EC
- Regulation (EU) No. 811/2013 813/2013
- Energy labelling Regulation (EU) No. 2017/1369



Please refer to the technical data plate for the serial number and year of manufacture.

SYMBOLS



WARNING

To indicate actions which, if not carried out correctly, can result in injury of a general nature or may damage or cause the appliance to malfunction; these actions therefore require particular caution and adequate preparation.



ELECTRICAL HAZARD

To indicate actions which, if not carried out correctly, could lead to injury of an electrical nature; these actions therefore require particular caution and adequate preparation.



IT IS FORBIDDEN

To indicate actions which MUST NOT BE carried out.



CAUTION

To indicate particularly important and useful information.

MANUAL STRUCTURE

This manual is organized as follows.

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USER INSTRUCTIONS

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VERY IMPORTANT!

PLEASE MAKE SURE YOUR COMMISSIONING CHECKLIST AND THE SERVICE INTERVAL RECORDS ENCLOSED ARE FILLED IN CORRECTLY.

ALL GAS SAFE REGISTERED INSTALLERS CARRY A GAS SAFE ID CARD.

BOTH SHOULD BE RECORDED IN YOUR COMMISSIONING CHECKLIST AND A SERVICE INTERVAL RECORDS.

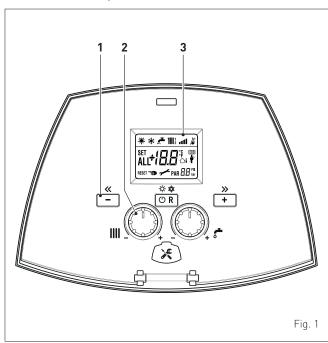
YOU CAN CHECK YOUR INSTALLER IS GAS SAFE REGISTERED

BY CALLING ON 0800 408 5500 OR ALTERNATIVELY WWW.GASSAFEREGISTER.CO.UK



1 OPERATING WITH EDEA

1.1 Control panel



1 FUNCTIONAL BUTTONS

CR If pressed once or more times for at least 1 second during normal operation, this button allows the user to change the appliance's operating mode in a cyclical sequence (Stand-by – Summer – Winter). If the appliance is experiencing a resettable fault, it can be used to unlock it.

- This allows the user to scroll through the parameters or decrease the values.
- This allows the user to scroll through the parameters or increase the values.
- Programming connector cover plug.

2 KNOBS

The heating knob allows the user to set the heating temperature to between 20 and 80°C during normal operation.

The domestic hot water knob allows the user to set the domestic hot water temperature to between 10 and 60°C during normal operation.

NOTE: pressing any button for more than 30 seconds causes a fault to appear on the display (ALL 42) without preventing the appliance's operation. The warning disappears when normal conditions are restored.

3 DISPLAY



"SUMMER". This symbol appears when the boiler is operating in "Summer" mode or if only the domestic hot water mode is enabled via the remote control.



"WINTER". The symbol is present in the "Winter" operating mode, or with the remote control if both the domestic hot water and heating modes are enabled. The flashing and symbols signal that the "chimney sweep" function is active.

RESET "RESET REQUEST". The wording indicates that, once the fault has been repaired, the appliance's normal operation can be reset by pressing the $\bigcirc \mathbf{R}$ button.



"DOMESTIC HOT WATER". This symbol is present during a DHW request or during the "chimney sweep function" It flashes during the selection of the domestic hot water set point.

"HEATING". This symbol lights up during heating operation or during the "chimney sweep function It flashes during the selection of the heating set point.



"BLOCK" DUE TO NO FLAME.



"FLAME PRESENCE".



"POWER LEVEL". Indicates the power level at which the appliance is operating.

PAR "PARAMETER". This indicates that the user may be in parameter setting/display, or "info" or "counter", or in "activated alarms" (history).

ALL "ALARM". This indicates that a fault has occurred. The number specifies the cause which generated the alarm.



"CHIMNEY SWEEP". This indicates that the "chimney sweep function" has been activated.



"EXTERNAL TEMPERATURE SENSOR". Indicates that the external temperature sensor has been installed and that the appliance is working at a sliding temperature.

Libar "HEATING SYSTEM PRESSURE". Display of heating system pressure.



"ECO", **ALTERNATIVE ENERGY SOURCES**. Where active, it indicates that there is a solar system available.



"MAINTENANCE REQUEST". If active, it indicates that it is time to perform maintenance on the appliance.



1.2 Preliminary checks



WARNING

- Should it be necessary to access the areas in the bottom part of the appliance, make sure that the system components and pipes are not hot (risk of burning).
- Before replenishing the heating system, put on protective gloves.

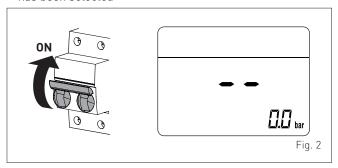
The initial start-up of **Edea** must be carried out by professionally qualified personnel, after which the appliance can function automatically. It may be necessary for the user to restart the appliance automatically, without contacting the technician; for example, after a holiday.

First of all check that the gas isolation and water system valves are open.

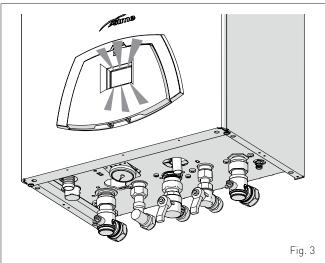
1.3 Ignition

After completing the preliminary checks, start up **Edea**:

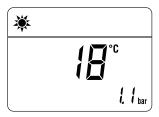
- set the main system switch to "ON" in order for the display to show the pressure level in the system during refilling
- make sure that the operating mode is set to "Stand-by"; if this
 is not the case, press the button ♥ R until "Stand-by" mode
 has been selected



- check that the pressure in the heating system, when cold, is
 1-1.2 bar. If the pressure is less than this, use the external filling device to repressurise the system to 1-1.2 bar
- ensure that the filling device is turned off after use
- press and hold the button **OR** for more than 3 seconds and check whether normal operating conditions are restored.



 select the "SUMMER" in operating mode by pressing and holding the OR button for at least 1 second. the value of the delivery sensor detected at that moment will appear on the display



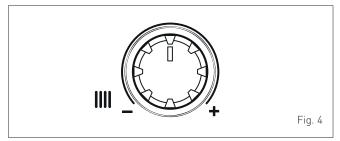
open one or more hot water taps. Edea will work at its maximum power until the tap or taps are closed.

Once **Edea** is commissioned in "SUMMER mode" ******, with the ****** R button, pressed for at least 1 second, it is possible to choose the "WINTER mode" ******. The display will show the value of the delivery water temperature measured at that time. In this case it is necessary to adjust the room thermostat(s) at the desired temperature or, if the system is equipped with a timer-controlled thermostat, verify that it is "active" and adjusted.



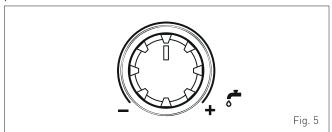
1.4 Adjusting the heating temperature

To increase or decrease the delivery temperature of **Edea**, instead of modifying the specific parameter, it is possible to turn knob **1** on the control panel. The temperature can be set to between 20 and 80°C.



1.5 Adjusting the domestic hot water temperature

If the domestic hot water temperature is to be increased or decreased, act on the \nearrow knob on the control panel. The temperature can be set to between 10 and 60°C.



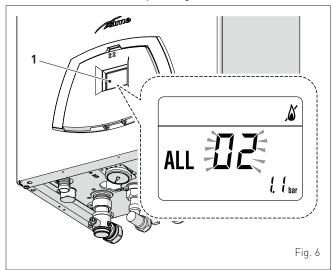


1.6 Fault / malfunction codes

If, during the operation of **Edea**, an anomaly/fault occurs, the display will show "**ALL**" followed by the anomaly code.

If you see alarm "02" (low water pressure in the system):

- check that the pressure in the heating system, when cold, is
 1-1.2 bar. If the pressure is less than this, use the external filling device to repressurise the system to 1-1.2 bar
- ensure that the filling device is turned off after use
- press and hold the button OR for more than 3 seconds and check whether normal operating conditions are restored.



If you see alarm "06" (no flame detected) and "07" (safety thermostat intervention):

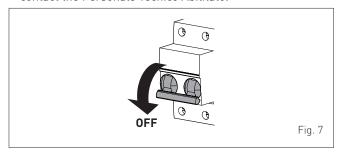
- press and hold the button \mathbf{OR} for more than 3 seconds and check whether normal operating conditions are restored.





If this operation is not successful, **ONLY ONE MORE ATTEMPT** can be made, therefore:

- close the gas isolation valve
- set the main system switch to "OFF"
- contact the Personale Tecnico Abilitato.





CAUTION

Should you see an alarm not described here, contact a qualified technical professional.

1.6.1 Maintenance request

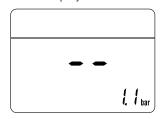
When it is time to perform maintenance on the boiler, the symbol shows on the display.



Contact the technical assistance service to organise the necessary work.

2 SHUTDOWN

2.1 Temporary shutdown



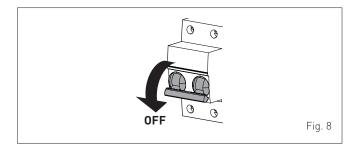


ELECTRICAL HAZARD

The boiler will still be powered.

If the user is away temporarily, for a weekend, short trip etc and if the outside temperature is at ZERO:

- press the OR button, once from the "WINTER mode" or twice from the "SUMMER mode" to put the Edea in stand-by
- set the main system switch to "OFF"
- close the gas valve.





CAUTION

If the outside temperature might fall below ZERO, since the appliance is equipped with an "antifreeze function"

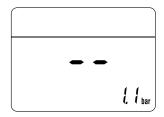
- ONLY PUT THE BOILER INTO STAND-BY
- leave the system's main switch set to "ON" (appliance powered electrically)
- leave the gas valve open.



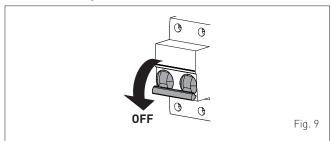
2.2 Shutting down for long periods

If the boiler is to be left unused for a long period, the following operations need to be carried out:

press the OR button for at least 1 second, once from the "WINTER mode" or twice from the "SUMMER mode"
 to put the Edea in stand-by. The display will show "--"



- set the main system switch to "OFF"



- close the gas valve
- close the heating and domestic hot water isolation valves
- drain the heating and domestic hot water system if there is the risk of freezing.



CAUTION

Contact the Personale Tecnico Abilitato if the procedure described above cannot be easily carried out.

3 MAINTENANCE

3.1 Adjustments

For the appliance to operate correctly and efficiently it is recommended that the User calls upon the services of a Professionally Qualified Technician to carry out **ANNUAL** maintenance.



CAUTION

Maintenance must ONLY be carried out by qualified professionals who follow the indications provided in the INSTALLATION AND MAINTENANCE INSTRUCTIONS.

3.2 External cleaning



WARNING

- Should it be necessary to access the areas in the bottom part of the appliance, make sure that the system components and pipes are not hot (risk of burning).
- Before performing any maintenance, put on protective gloves.

3.2.1 Cleaning the cladding

When cleaning the cladding, use a cloth dampened with soap and water or alcohol for stubborn marks.



IT IS FORBIDDEN

to use abrasive products.

4 DISPOSAL

4.1 Disposal of the equipment (European Directive 2012/19/EU)



At the end of their life span, the appliance and electrical and electronic devices coming from households or classifiable as household waste must be delivered to appropriate waste collection systems, in accordance with the law and with Directive 2012/19/EU. This product was designed and manufactured for minimising its impact on the environment and on human health, but it contains components that could be detrimental if managed improperly. The symbol (crossed-out wheelie bin) depicted here and also appearing on your appliance means that the appliance at the end of its life must be managed in accordance with the law and treated as electrical and electronic waste. Before delivering the appliance for its disposal, consult the applicable provisions of the laws in force in the country where the appliance is used and get information on the authorised waste disposal facilities by contacting the relevant local offices.



IT IS FORBIDDEN

dispose of the product with urban waste.





DESCRIPTION OF THE APPLIANCE

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	Control panel	
	Wiring diagram	



5 DESCRIPTION OF THE APPLIANCE

5.1 Characteristics

Edea are last generation condensing wall mounted boilers which **Sime Ltd** has produced for heating and instant domestic hot water production when combined with a storage tank. The main design choices made by **Sime Ltd** for the **Edea** boilers are:

- the total pre-mix microflame burner combined with a stainless steel heat exchanger with a plaster outer shell, for heating
- the sealed combustion chamber which can be classified "Type C" or "Type B" in relation to the room where the boiler is installed, depending on the smoke outlet configuration adopted during installation
- the electronic control and command circuit board with microprocessor, for optimal management of the heating system and modulation of up to 1:10 for the instant production of domestic hot water. It allows for connecting room thermostats, an auxiliary sensor for managing kits, and the external sensor. The presence of the external sensor will make the boiler work at a variable temperature, in other words, the temperature in the boiler will vary in relation to the outdoor temperature, in accordance with the optimal climatic curve selected during the installation phase, resulting in considerable energy and financial savings. Moreover, the command board has an internal connection for inserting an expansion board which is used to control external relays.

Other special features of the Edea boilers are:

- the anti-freeze function which activates automatically if the temperature of the water inside the boiler falls below the threshold of the value set at parameter "PAR 10" and , if there is an external sensor, if the external temperature falls below the threshold of the value set at parameter "PAR 11"
- the anti-blocking function of the pump and diverter valve, this activates automatically every 24 hours if no request for heat has been made
- the chimney sweep function lasts 15 minutes and makes the job of the qualified technician easier when measuring the parameters and combustion efficiency
- domestic hot water comfort function which allows the time necessary for the hot water to become available to be reduced and ensures that the temperature is stable
- screen display of the operating and self-diagnostic parameters with error code display when the fault occurs. This makes repair interventions easier and allows appliance operation to be restored correctly.

5.2 Check and safety devices

The **Edea** boilers are equipped with the following check and safety devices:

- thermal safety thermostat 100°C
- 3 bar relief valve
- heating water pressure transducer
- delivery sensor
- DHW sensor
- smoke flue gas probe
- return sensor.



IT IS FORBIDDEN

To commission the appliance with safety devices which do not work or which have been tampered with.



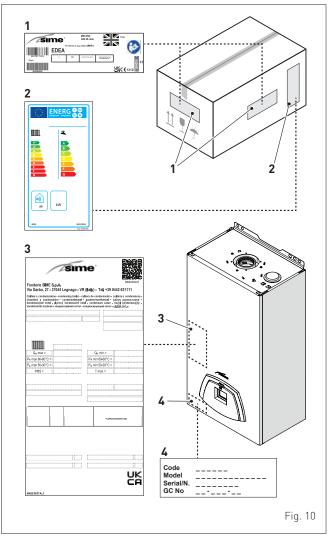
WARNING

Safety device may only be replaced by professional qualified personnel using **Sime Ltd** original spare parts.

5.3 Identification

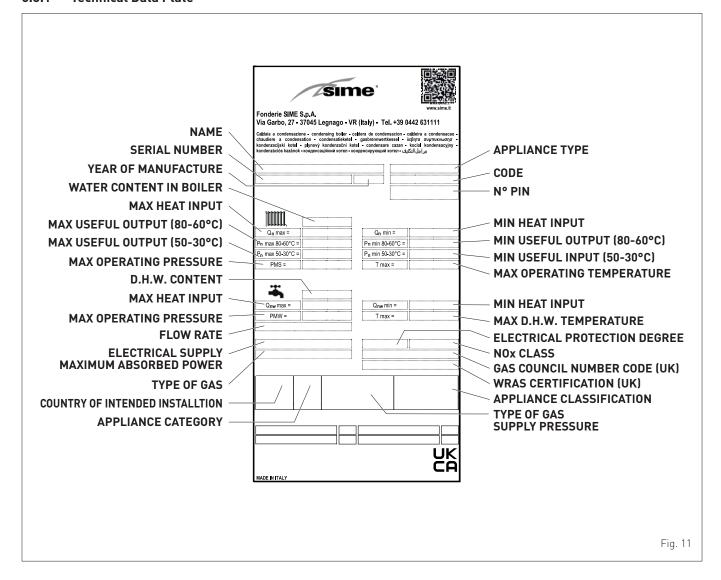
The Edea boilers can be identified by means of:

- 1 Packaging label: this is located on the outside of the packaging and provides a code, the serial number of the boiler and the bar code.
- 2 Energy Efficiency Label: this is positioned on the outside of the packaging to notify the User of the level of energy savings and reduced environmental pollution produced by the appliance.
- 3 Technical Data Plate: this is located inside the front panel of the boiler and provides the technical data, appliance performance information and any other information required by law in the country where the appliance will be used.
- 4 Steaker of product identification.





5.3.1 Technical Data Plate



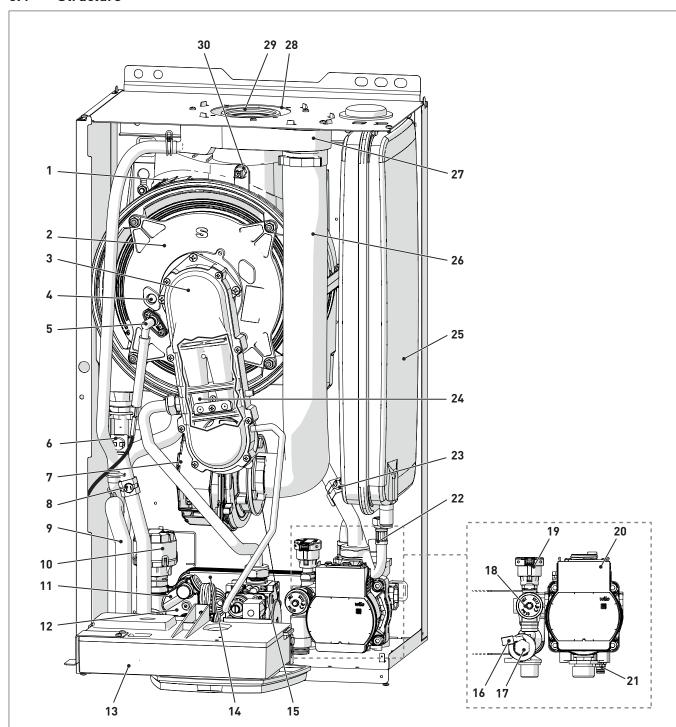


CAUTION

Tampering with, removing or failing to display the identification plate or carrying out any other operation which does not allow safe identification of the product or which may hinder installation and maintenance operations.



5.4 Structure



- 1 Heat exchanger
- 2 Combustion chamber door
- **3** Oversleeve
- 4 Flame viewing window
- 5 Ignition/detection electrode (EAR)
- 6 Safety thermostat (TS)
- 7 Fan (V)
- 8 Boiler delivery sensor (SMC)
- **9** Condensate siphon outlet
- 10 Diverter solenoid valve (EVD)
- 11 System filling unit
- 12 Domestic hot water sensor (SS)
- 13 Control panel
- 14 Domestic hot water heat exchanger
- 15 Gas valve

- 16 Domestic hot water flow meter (FLM)
- 17 Domestic hot water filter
- 18 Relief valve (FS)
- 19 Water pressure transducer (TPAC)
- 20 System pump (PI)
- 21 Boiler drain
- 22 Automatic bleed valve
- 23 Boiler return probe (SRC)
- 24 Air-gas mixer
- 25 Expansion vessel (VE)
- 26 Air inlet pipe
- 27 Air-smoke chamber
- 28 Air inlet
- 29 Smoke outlet duct (CSFU)
- 30 Smoke flue gas probe (SF)

Fig. 12



DESCRIPTION			Edea
CERTIFICATIONS		30	40
Country of intended installation			GB
Fuel			0 - G31
PIN number			2CU6393
Category			2H3P
Appliance classification			- C43 - C53 - C63 - C83 - C93 - C(10)3
DHW rated useful heat output	kW	30,0	40,0
Class NO _x (*)		<u> </u>	mg/kWh)
HEATING PERFORMANCE			
HEAT INPUT (**)			
Nominal flow (Qn max)	kW	25	34,8
Minimum flow G20/G31 (Qn min)	kW	3,0 / 4,0	4,5 / 5,5
HEAT OUTPUT			
Nominal (80-60°C) (Pn max)	kW	24,5	34,1
Nominal (50-30°C) (Pn max)	kW	26,4	36,7
Minimum G20 (80-60°C) (Pn min)	kW	2,8	4,2
Minimum G20 (50-30°C) (Pn min)	kW	3,1	4,7
Minimum G31 (80-60°C) (P _n min)	kW	3,7	5,1
Minimum G31 (50-30°C) (Pn min)	kW	4,2	5,7
EFFICIENCY			
Max useful efficiency (80-60°C)	%	98	98
Min useful efficiency (80-60°C)	%	93,3	93,3
Max useful efficiency (50-30°C)	%	105,8	105,6
Min useful efficiency (50-30°C)	%	104,7	104,2
Useful efficiency at 30% of load (40-30°C)	%	108,7	108,5
Losses after shutdown at 50°C	W	105	115
DOMESTIC HOT WATER PERFORMANCE			
Nominal heat input (Qnw max)	kW	30	40
Minimum heat input G20/G31 (Qnw min)	kW	3,0 / 4,0	4,5 / 5,5
Specific D.H.W. flow rate ΔT 30°C (EN 13203)	l/min	13,0	18,8
Continuous D.H.W. flow rate ($\Delta T 25^{\circ}C / \Delta T 35^{\circ}C$)	l/min	16,9 / 12,0	22.5 / 16.1
Minimum D.H.W. flow rate	l/min	2,0	2,0
Max (PMW) / Min Pressure	bar	7	/ 0,5
Plax (FPW) / Pliff Fessure	kPa	70	00 / 50
ENERGY PERFORMANCE			
HEATING			
Heating seasonal energy efficiency class		A	A
Heating seasonal energy efficiency	%	93	93
Sound power	dB(A)	55	56
DOMESTIC HOT WATER			
Domestic hot water energy efficiency class		A	A
Domestic hot water energy efficiency	%	86	86
Stated domestic hot water profile load		XL	XXL
ELECTRICAL SPECIFICATIONS			000
Power supply voltage	V		230
Frequency (O	Hz	00	50
Absorbed electrical power (Qn max)	W	93	113
Absorbed electrical power at (Qn min)	W	67	65
Absorbed electrical power in stand-by	W	4	6 VED
Electrical protection degree	IP		X5D
COMBUSTION DATA Smake temporature at May/Min flow (90, 4090)	90	00.0.772.0	7/ 5 / 50 0
Smoke temperature at Max/Min flow (80-60°C)	°C	80,0 / 62,0	74,5 / 58,2
Smoke temperature at Max/Min flow (50-30°C)		51,3 / 42,5	52,3 / 44,2
Smoke flow Max/Min	g/s	14,5 / 1,5	18,8 / 2,2
CO2 at Max/Min flow rate (G20)	%	9,2 / 9,0	9,3 / 9,1
CO ₂ at Max/Min flow rate (G31)	mg/kWh	10,2 / 10,0	10,0 / 10,0
NOv measured	ma/k///h	15	34
NOx measured		0.47./0.00	1001010
Gas consumption at Max/Min flow rate (G20)	m³/h	3,17 / 0,32	4,23 / 0,48
		3,17 / 0,32 2,33 / 0,31 20 / 37	4,23 / 0,48 3,11 / 0,43 20 / 37



DESCRIPTION		Edea			
DESCRIPTION		30	40		
NOZZLES - GAS					
Number of nozzles	No.	2	2		
Nozzle diameter (G20)	mm	3,5 / 4,0	4 / 4,5		
Nozzle diameter (G31)	mm	2,8 / 3,0	2,8 / 3,4		
TEMPERATURE - PRESSURE					
Max operating temperature (T max)	°C		85		
Heating adjustment range	°C	20÷80			
Domestic hot water adjustment range	°C		10÷60		
May an arcting processes (DMC)	bar	3			
Max operating pressure (PMS)	kPa	300			
Water content in boiler	l	5,1	5,8		

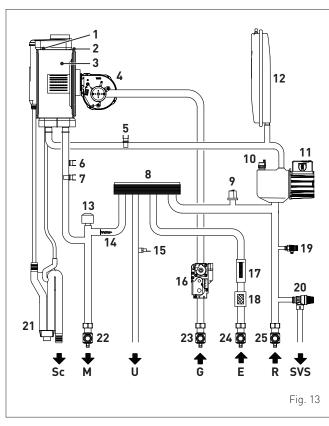
(*) NOx class according to UNI EN 15502-1:2015

(**) Heat input calculated using the lower heat output (Hi)

Lower Heat Output (Hi)

G20 Hi. 9.45 kW/m³ (15°C, 1013 mbar) - **G31 Hi.** 12.87 kW/kg (15°C, 1013 mbar)

5.5 Main water circuit



KEY:

M System delivery

R System return

U Domestic hot water outlet

E Domesti hot water inlet

SVS Safety valve outlet

G Gas supply

Sc Condensate outlet

- 1 Smoke flue gas probe (SF)
- 2 Heat exchanger
- 3 Combustion chamber
- 4 Fan (V)
- 5 Boiler return probe (SRC)
- 6 Safety thermostat (TS)
- 7 Boiler delivery sensor (SMC)

- 8 Domestic hot water heat exchanger
- 9 Water pressure transducer (TPAC)
- 10 Automatic bleed valve
- 11 System pump (PI)
- 12 Expansion vessel (VE)
- 13 Diverter solenoid valve (EVD)
- 14 Automatic by-pass
- 15 Domestic hot water sensor (SS)
- 16 Gas valve
- 17 Domestic hot water flow meter
- 18 Domestic hot water filter (FLM)
- 19 Boiler drain
- 20 Relief valve (FS)
- 21 Condensate siphon outlet
- 22 System delivery valve
- 23 Gas valve
- 24 Domestic hot water inlet valve
- 25 System return valve

5.6 Sensors

The sensors installed have the following characteristics:

- NTC R25°C (delivery) sensor; 10kΩ B25°-85°C: 3435
- domestic hot water sensor NTC R25°C; 10k Ω B25°-85°C: 3435
- External temperature sensor NTC R25°C; 10kΩ β25°-85°C: 3435

TR	0°C	1°C	2°C	3°C	4°C	5°C	6°C	7°C	8°C	9°C	
0°C	27279	26135	25044	24004	23014	22069	21168	20309	19489	18706	
10°C	17959	17245	16563	15912	15289	14694	14126	13582	13062	12565	
20°C	12090	11634	11199	10781	10382	9999	9633	9281	8945	8622	
30°C	8313	8016	7731	7458	7196	6944	6702	6470	6247	6033	3
40°C	5828	5630	5440	5258	5082	4913	4751	4595	4444	4300	e R
50°C	4161	4026	3897	3773	3653	3538	3426	3319	3216	3116	anc
60°C	3021	2928	2839	2753	2669	2589	2512	2437	2365	2296	sistance
70°C	2229	2164	2101	2040	1982	1925	1870	1817	1766	1717	æ
80°C	1669	1622	1577	1534	1491	1451	1411	1373	1336	1300	
90°C	1266	1232	1199	1168	1137	1108	1079	1051	1024	998	
100°C	973										

Correspondence of Temperature Detected/Resistance

Examples of reading:

 $TR=75^{\circ}C \rightarrow R=1925\Omega$

 $TR=80^{\circ}C \rightarrow R=1669\Omega$.



5.7 Expansion vessel

Description	U/M	Edea			
Description	U/M	30	40		
Total capacity	l	9,0	10,0		
Destilling processes	kPa	100			
Prefilling pressure	bar	1,	,0		
Useful capacity	l	5,0	6,0		
Maximum system content (*)	l	124	140		

(*) Conditions of:

Average operating temperature 70°C (with high temperature system 80/60°C)

Start temperature at system filling 10°C.

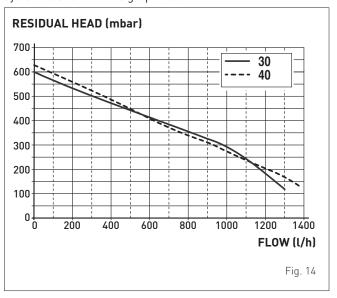


CAUTION

- For systems with water content exceeding the maximum system content (as indicated in the table) an additional expansion vessel must be prearranged.
- The difference in height between the relief valve and the highest point of the system cannot exceed 6 metres. If the difference is greater than 6 metres, increase the prefilling pressure of the expansion vessel and the system when cold by 0.1 bar for each meter increase.

5.8 Circulation pump

The flow-head performance curve available for the heating system is shown in the graph below.



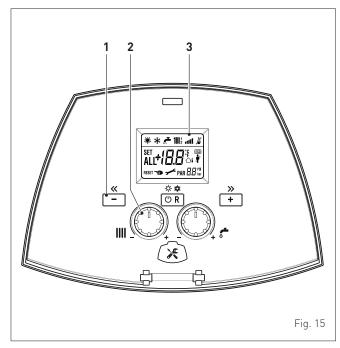


CAUTION

The appliance is equipped with a by-pass which ensures water circulation in the boiler when the thermostatic valves or cocks are used in the system.



5.9 Control panel



FUNCTIONAL BUTTONS

 $igcup_{\mathsf{R}}$ If pressed once or more times for at least 1 second during normal operation, this button allows the user to change the appliance's operating mode in a cyclical sequence (Stand-by - Summer - Winter). If the appliance is experiencing a resettable fault, it can be used to unlock it.

This allows the user to scroll through the parameters or decrease the values.

This allows the user to scroll through the parameters or increase the values.



KNOBS

The heating knob allows the user to set the heating temperature to between 20 and 80°C during normal operation.

The domestic hot water knob allows the user to set the domestic hot water temperature to between 10 and 60°C during normal operation.

NOTE: pressing any button for more than 30 seconds causes a fault to appear on the display (ALL 42) without preventing the appliance's operation. The warning disappears when normal conditions are restored.

DISPLAY



"SUMMER". This symbol appears when the boiler is operating in "Summer" mode or if only the domestic hot water mode is enabled via the remote control.



"WINTER". The symbol is present in the "Winter" operating mode, or with the remote control if both the domestic hot water and heating modes are enabled. The flashing 💥 and 🔆 symbols signal that the "chimney sweep" function is active.

RESET "RESET REQUEST". The wording indicates that, once the fault has been repaired, the appliance's normal operation can be reset by pressing the $\bigcirc R$ button.



"DOMESTIC HOT WATER". This symbol is present during a DHW request or during the "chimney sweep function" It flashes during the selection of the domestic hot water set point.



"HEATING". This symbol lights up during heating operation or during the "chimney sweep function It flashes during the selection of the heating set point.



"BLOCK" DUE TO NO FLAME.



"FLAME PRESENCE".



"POWER LEVEL". Indicates the power level at which the appliance is operating.

PAR

"PARAMETER". This indicates that the user may be in parameter setting/display, or "info" or "counter", or in "activated alarms" (history).

"ALARM". This indicates that a fault has occurred. The number specifies the cause which generated the alarm.



"CHIMNEY SWEEP". This indicates that the "chimney sweep function" has been activated.



"EXTERNAL TEMPERATURE SENSOR". Indicates that the external temperature sensor has been installed and that the appliance is working at a sliding temperature.

Libar "HEATING SYSTEM PRESSURE". Display of heating system pressure.



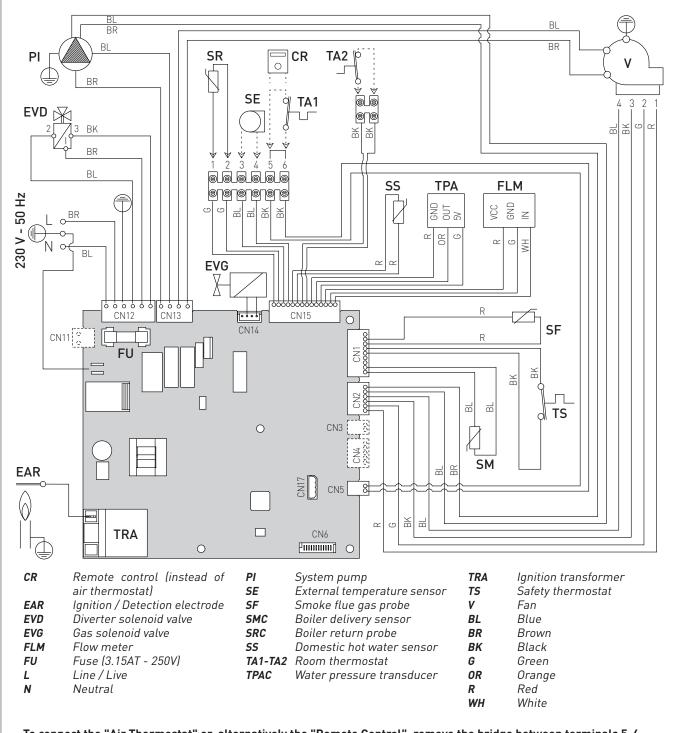
"ECO", ALTERNATIVE ENERGY SOURCES. Where active, it indicates that there is a solar system available.



"MAINTENANCE REQUEST". If active, it indicates that it is time to perform maintenance on the appliance.



5.10 Wiring diagram



To connect the "Air Thermostat" or, alternatively the "Remote Control", remove the bridge between terminals 5-6.

Fig. 16



CAUTION Users must:

- Use an omnipolar cut-off switch, disconnect switch in compliance with EN Standards which ensures complete cut-off in overvoltage category III conditions (i.e. where there is at least 3 mm between the open contacts).
- Respect the connections L (Live) N (Neutral).
- Ensure that the special power cable is only replaced with a cable ordered as a spare part and connected by professionally qualified personnel.



CAUTION Users must:

 Connect the earth wire to an effective earthing system. The manufacturer is not responsible for any damage caused by failure to earth the appliance or failure to observe the information provided in the wiring diagrams.



IT IS FORBIDDEN

To use water pipes for earthing the appliance.



The Benchmark Scheme

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 competent persons 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.



INSTALLATION AND SERVICING INSTRUCTIONS

Installer Checklist

Please remember to carry out the following checks after installation. This will achieve complete customer satisfaction, and avoid unnecessary service calls. A charge will be made for a service visit where the fault is not due to a manufacturing defect.

Has a correct by-pass been fitted and adjusted?

Has the system and boiler been flushed?

Is the system and boiler full of water, and the correct pressure showing on the pressure gauge? Is the Auto Air Vent open?

Has the pump been rotated manually?

Is the gas supply working pressure correct?

Is the boiler wired correctly? (See installation manual).

Has the D.H.W. flow rate been set to the customer requirements?

Has the customer been fully advised on the correct use of the boiler, system and controls?

Has the Benchmark Checklist in the use and maintenance section of this manual, been completed?

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6 INSTALLATION

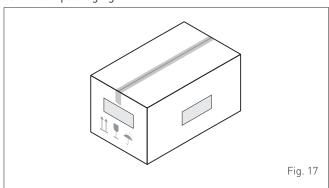


CAUTION

The appliance must only be installed by the **Sime Ltd** Technical Service or by qualified professionals **who MUST wear** suitable protective safety equipment.

6.1 Receiving the product

Edea appliances are delivered in a single unit protected by cardboard packaging.



The plastic bag found inside the packaging contains the following:

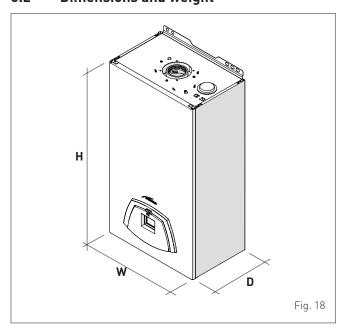
- Installation, use and maintenance manual
- Paper template for boiler installation
- Certificate of warranty
- Hydrostatic test certificate
- System booklet
- Bag with expansion plugs



IT IS FORBIDDEN

To leave packaging material around or near children since it could be dangerous. Dispose of it as prescribed by legislation in force.

6.2 Dimensions and weight

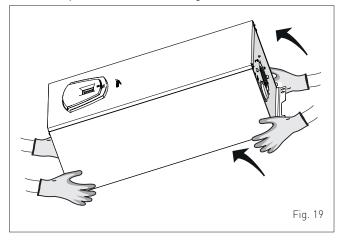


Description	Edea			
Description	30	40		
W (mm)	400			
D (mm)	260 (*)			
H (mm)	700			
Weight (kg)	28,4 30,8			

(*) Without removable panel.

6.3 Handling

Once the packaging has been removed, the appliance is to be handled manually, tilting it slightly, lifting it and applying pressure in the points indicated in the figure.





IT IS FORBIDDEN

To grip the appliance casing. Hold the "solid" parts of the appliance such as the base and structural frame.



WARNING

Use suitable tools and accident protection when removing the packaging and when handling the appliance. Observe the maximum weight that can be lifted per person.

6.4 Installation room

The room where the appliance is to be installed must comply with the Technical Regulations and Legislation in force. It must be equipped with suitably sized ventilation openings when the installation is a "TYPE B" installation.

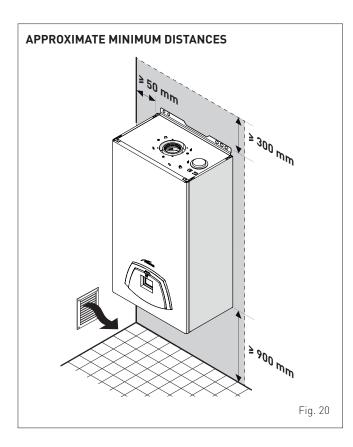
The minimum temperature of the installation room must NOT be lower than **-5 °C**.



CAUTION

- Before assembling the appliance, the installer **MUST** make sure that the wall supports the weight.
- Remember to consider the space needed in order to access the safety/adjustment devices and to carry out maintenance interventions (see Fig. 20).





6.5 New installation or installation of a replacement appliance

The boiler must be installed in a fixed location and only by specialized and qualified person in compliance with all instructions contained in this manual.

The installation of this boiler must be in accordance with the relevant requirements of the current Gas Safety (installation and use), the local building regulations and I.E.E. wiring regulations.

Detailed recommendations for air supply and fluing are given in BS5440.

The following notes are for general guidance: it is not necessary to have a purpose provided air vent in the room or compartment in which the appliance is installed.



CAUTION

It is a condition of the warranty that the boiler is installed in accordance with the instructions in this manual. The boiler must be registered with Gas Safe Register, the Benchmark record must be completed and the boiler is serviced annually and recorded in this manual.



CAUTION

If the domestic water supply is metered or should a water meter be added at a later time, a small expansion vessel should be included in the domestic water pipework.

6.6 Cleaning the system

Before connecting the boiler it is recommended that the system be flushed in accordance to BS 7593, to eliminate any foreign bodies that may be detrimental to the operating efficiency of the appliance.



CAUTION

Failure to flush and add inhibiter to the system may invalidate the warranty.

6.7 Water system treatment

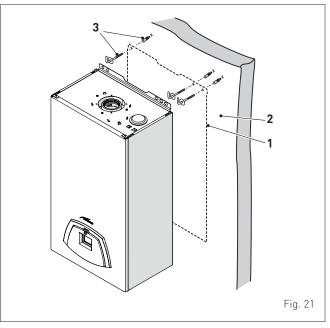
- All recirculatory systems will be subject to corrosion unless an appropriate water treatment is applied. This means that the efficiency of the system will deteriorate as corrosion sludge accumulates within the system, risking damage to pump and valves, boiler noise and circulation problems.
- Before connecting the boiler the associated central heating system must be flushed in accordance with the guidelines given in BS 7593 "Treatment of water in domestic hot water central heating systems".
- Sime Ltd recommends only the use of FERNOX products for the flushing and final treatment of the system water. This is particularly important in hard water areas. Failure to flush and add inhibitor to the system may invalidate the appliance warranty. Artificially softened water must not be used to fill the heating system. Naturally soft water areas can corrode aluminium heat exchangers. Adding Fernox F1 or Mb-1 will quard against corrosion.
- Sime Ltd promote the fitting of TF1 System filter with any new boiler installation.
- It is important to check the inhibitor concentration after installation, system modification and annually on a service visit in accordance with the manufacturer's instructions. (Note on benchmark service record this has been complete). Test kits are available from inhibitor stockists; the return of the Fernox test report should be kept with the Benchmark to validate warranty.
- Where Central heating systems are susceptible to freezing a mixture of inhibitor and anti-freeze should be added in accordance with the DWTA code of practice and the Manufactures instructions.
- The addition of sealing agents to system water is not recommended because deposits can be left in heat exchanger causing circulation issues.

6.8 Boiler installation

Edea boilers leave the factory with a paper template for installation onto a solid wall.

For installation:

- position the paper template (1) on the wall (2) where the boiler is to be mounted
- make the holes, remove the template (1) and insert the expansion plugs (3)
- hook the boiler onto the plugs.





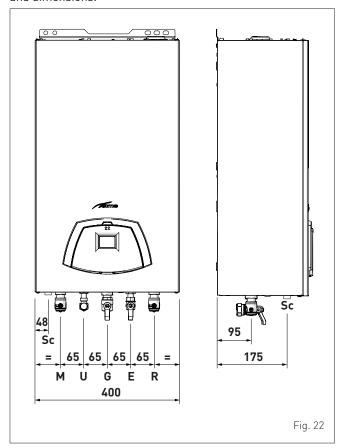
CAUTION

The height of the boiler is to be such that disassembly and maintenance interventions are facilitated.



6.9 Plumbing connections

The plumbing connections have the following characteristics and dimensions.



Description	Edea			
Description	30	40		
M - System delivery	Ø 3/4" G			
R - System return	Ø 3/4" G			
U - Domestic hot water output	Ø 1/2" G			
E - Domestic hot water inlet	Ø 1/2" G			
G - Gas supply	Ø 3/	4" G		
Sc - Condensate outlet	Ø 20 mm			



CAUTION

A sealed system must only be filled by a competent person (see section **Method of filling a sealed system** page 37).

6.9.1 Plumbing accessories (optional)

To facilitate plumbing and gas connections to the systems, the accessories as shown in the table below are available and are to be ordered separately from the boiler.

DESCRIPTION	CODE
Installation plate	8075441
Connection protection kit (for models 30-40 kW)	8094530

NOTE: kit instructions are supplied with the accessory itself or are to be found on the packaging.

6.10 Condensate outlet/collection

To ensure safe disposal of the condensate produced by the flue gases, reference should be made to BS6798:2009.

The boiler incorporates a condensate trap which has a seal of 75 mm, therefore no additional trap is required.

The condensate trap can be filled prior to the installation of the flue by carefully pouring 1 litre of water into the exhaust connection.

NOTE: All pipework must have a continuous fall from the boiler and must be resistant to corrosion by condensate, copper or steel is NOT suitable. It should be noted that the connection of a condensate pipe to a drain may be subject to local building control requirements (Dealing with Condensate - see Appendix 1).

6.11 Gas supply

Edea boilers leave the factory prearranged for gas G20 and can also work with G31 without the need for any type of mechanical conversion. Simply select parameter"03" (see "Parameter setting and display") page 39 and set the type of gas to be used.

If changing the type of gas to be used, carry out the entire appliance "COMMISSIONING" phase (page 39).

As a condition of the warranty and to ensure correct operation and efficiency, it is important that the boiler is serviced every 12 months, within 30 days of the anniversary of the installation date ensure the required information is recorded in the Gas Boiler System Service Interval Record (page 51) (Benchmark). The gas connection must be made using seamless steel or copper tube.

Where the piping has to pass through walls, a suitable insulating sleeve must be provided.

When sizing gas piping, from the meter to the boiler, take into account both the volume flow rates (consumption) in m3/h and the relative density of the gas in question.

The sections of the piping making up the system must be such as to guarantee a supply of gas sufficient to cover the maximum output available from the boiler, limiting pressure loss between the gas meter and any apparatus being used to not greater than 1.0 mbar for family II gases (natural gas).

An adhesive data badge is sited inside the front panel; it contains all the technical data identifying the boiler and the type of gas for which the boiler is arranged.



WARNING

Once installation has been completed, check that the joints are air tight as indicated in the installation Standards.



CAUTION

It is recommended that the gas line has a suitable filter.



CAUTION

If the gas supply is changed from G20 to G31, mark the box on the TECHNICAL DATA PLATE.





6.12 Connecting the flue



CAUTION

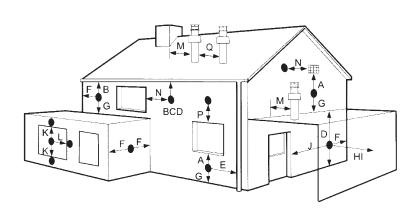
The appliance must be installed as a room sealed device and unless stated in writing from the manufacturer, in accordance with the current edition of BS 5440-1. The information shown in this manual is for guidance and parts identification.



CAUTION

 Prior to fitting the flue, the condensate trap can be filled by carefully pouring water into the exhaust section of the flue connection.

6.12.1 Flue Terminal Positions



Teri	minal position	Minimum s	spacing
A	Directly below an openable window, air vent or any other ventilation opening	300 mm	12 in
В	Below guttering, drain pipes or soil pipes (**)	75 mm	3 in
C/D	Below eaves, balconies or carport roof (*)	200 mm	8 in
Е	From vertical drain pipes or soil pipes	75 mm	3 in
F	From internal or external corners	300 mm	12 in
G	Above adjacent ground, roof or balcony level	300 mm	12 in
Н	From a boundary or surface facing the boiler	600 mm	24 in
ı	From a terminal facing the terminal	1,200 mm	48 in
J	From an opening in the carport (eg door, window into dwelling)	1,200 mm	48 in
K	Vertically from a terminal on the same wall	1,500 mm	60 in
L	Horizont. from a terminal on the same wall	300 mm	12 in
М	Horizont. from a vertical terminal to a wall	300 mm	12 in
N	Horizont. from an openable window or other opening	300 mm	12 in
Р	Above an openable window or other opening	300 mm	12 in
Q	From an adjacent vertical terminal	600 mm	24 in

- (*) This dimension to be used with ventilated soffits. With unvented soffits this can be reduced to 75 mm and further reduced to 25 mm when a flue shield is used to protect from the effects of heat and condensation.
- (**) This can be reduced to 25 mm but it may be necessary to protect the surfaces from the effects of heat and condensation.

- If the terminal discharges into a pathway or passageway check that combustion products will not cause nuisance andthat the terminal will not obstruct the passageway.
- Where the lowest part of the terminal is fitted less than 2 m (78 in) above ground, above a balcony or above a flat roof to which people have access, the terminal MUST be protected by a purpose designed guard.
- The air inlet/outlet flue duct MUST NOT be closer than 10 mm (0.4 in) to combustible material.
- In certain weather conditions the terminal may emit a plume of steam. This is normal but positions where this would cause a nuisance should be avoided.

Fig. 23



6.12.2 Installation of coaxial flues 60/100mm - 80/125mm

Coaxial flue kits that are supplied separately. The diagrams below, illustrate some examples of fluing options allowed and the maximum lengths than can be achieved. It is essential that a flue gas analysis point is made available directly above the boiler.

IMPORTANT:

- The insertion of each additional 90° bend with a diameter of 60/100 (code 8095850) reduces the available section by 1.5 meters.
- The insertion of each additional 90° bend with a diameter of 80/125 (code 8095870) reduces the available section by 2 meters.
- Each additional 45° curve installed a diameter of 60/100 (code 8095950) reduces the available length by 1.0 metres.
- Each additional 45° curve installed a diameter of 80/125 (code 8095970) reduces the available length by 1.0 metres.

HORIZONTAL FLUES MUST BE LEVEL

NOTE: Before connecting accessories, it is always advisable to lubricate the internal part of the gaskets with silicon products. Avoid using oils and greases.

	Length of pipe Ø 60/100			Length of pipe Ø 80/125				
Model	H (m)	V (m)		V (m)		H (m)	\ (r	/ n)
		Min.	Max.		Min.	Max.		
EDEA 30	6	1,3	8	12	1,2	15		
EDEA 40	6	1,3	12	18	1,2	20		

LIST OF ø 60/100 ACCESSORIES

- 1a Coaxial duct kit L. 790 code 8096250
- 1b Telescopic coaxial duct kit L. 695 code 8098605
- 2a Extension L. 1000 code 8096150
- 2b Extension L. 500 code 8096151
- 3 Vertical extension L. 140 with coupling code 8086950
- 5 Tile for joint code 8091300
- 6 Terminal for roof exit L. 1285 code 8091212 (includes 8086950)

LIST OF ø 80/125 ACCESSORIES

- 1 Coaxial duct kit L. 785 code 8096253
- 2a Extension L. 1000 code 8096171
- 2b Extension L. 500 code 8096170
- 3 Adapter for ø 80/125 code 8093150
- 5 Tile for joint code 8091300
- 6 Terminal for roof exit L. 1285 code 8091212 (includes 8093150)

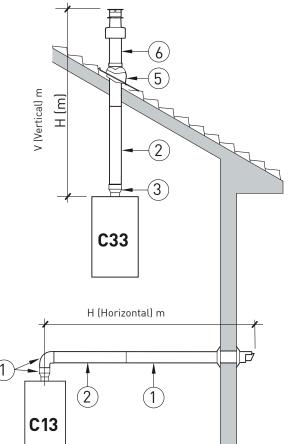


Fig. 24



6.12.3 Installation of separate ducts 80mm

The boiler can be installed with separate air inlet and exhaust ducts. The figure below illustrate some examples of the fluing options allowed and the associated losses of the accessories. The total load loss is the sum of the load losses of the accessories used. The maximum load loss must not exceed 16.5 mm H20 for Edea 30 and 30.0 mm H20 for Edea 40. The maximum flue length must not exceed 25 m inlet and exhaust.

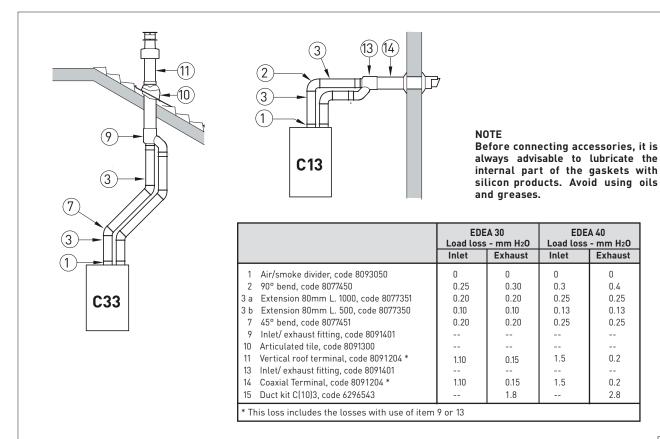


Fig. 25

6.12.4 Coaxial duct (Ø 60/100mm and Ø 80/125mm)

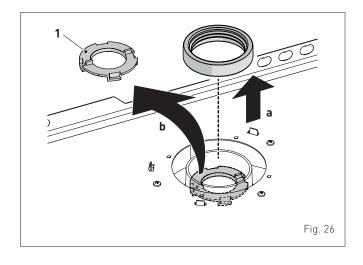
Coaxial accessories

Description	Code			
Description	Ø 60/100 mm	Ø 80/125 mm		
Coaxial duct kit	8096250	8096253		
Extension W. 1000 mm	8096150	8096171		
Extension W. 500 mm	8096151	8096170		
Vertical extension W. 140 mm with smoke analysis take-off point	8086950	-		
Adapter for Ø 80/125 mm	-	8093150		
Additional 90° curve	8095850	8095870		
Additional 45° curve	8095950	8095970		
Tile with joint	8091300	8091300		
Roof outlet terminal W. 1284 mm	8091212	8091212		

Load loss - Equivalent lengths

Model	Leq (linea	ar metres)
Modet	Ø 60/100 mm	
90° curve	1,5	2
45° curve	1	1

With a \emptyset 60/100 mm coaxial outlet duct exceeding 2 metres, remove, by turning it clockwise, the smoke outlet diaphragm (1) positioned as shown in the picture. With a \emptyset 80/125 mm coaxial outlet duct exceeding 4 metres, remove, by turning it clockwise, the smoke outlet diaphragm (1) positioned as shown in the picture.



Minimum-Maximum Lengths

	Duct Length Ø 60/100				Duct Length Ø 80/125			
Model			W Horizontal (m)		H Vertical (m)			
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Edea 30	-	6	1,3	8	-	12	1,2	15
Edea 40	-	6	1,3	12	-	18	1,2	20



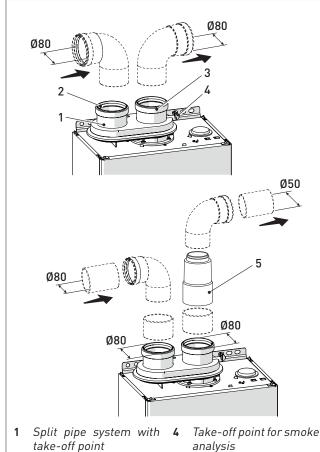
6.12.5 Separate ducts (Ø 60mm and Ø 80mm)

Constructing outlets for separate ducts indicates the use of the "air-flue split pipe system". This is to be ordered separately from the boiler and when connected to the other accessories, from those listed in the table below, completes the smoke-outlet/ combustion air inlet assembly.

Separate accessories

	Co	de	
Description	Diameter Ø 60 (mm)	Diameter Ø 80 (mm)	
Air-flue split pipe system (without take-off point)	8093060	-	
Air-flue split pipe system (with take-off point)	-	8093050	
90° curve M-F (6 pieces)	8089921	8077450	
90° curve M-F (with take-off point)	8089924	-	
M-F 80/60 reduction	8089923	-	
M-F 80/50 reducer	-	8089941	
Extension W. 1000 mm (6 pieces)	8089920	8077351	
Extension W. 500 mm (6 pieces)	-	8077350	
Extension W. 135 mm (with take-off point)	-	8077304	
Wall outlet terminal	8089541	8089501	
Internal and external ring nut kit	8091510	8091500	
Inlet terminal	8089540	8089500	
45° curve M-F (6 pieces)	8089922	8077451	
Manifold	8091400		
ile with joint 8091300		1300	
Roof outlet terminal W. 1390 mm	8091204		
Inlet/outlet fitting Ø 80/125 mm	-	8091210	
Duct kit C(10)3 models Edea 30 - 40	-	6296543	

Split pipe system



- analysis
 - Ø80/50 reducer

Fig. 27

Air inlet Smoke outlet NOTE: the ducts can be reduced from Ø80 to Ø50 by using the reducer with code 8089941, to be ordered separately, as shown in "Fig. 16".



CAUTION

- The maximum total length of the ducts, obtained by adding the lengths of the inlet and outlet pipes, is determined by the load losses of the individual accessories used and must not exceed 16.5 mm H20 for Edea 30 and 30.0 mm H20 for Edea 40.
- For all boiler versions, the total extension must not in any case exceed 25 m (inlet) + 25 m (outlet) for ducts \emptyset 80 mm. For \emptyset 60 mm ducts, the total extension must not exceed, respectively 16 m (suction) + 16 m (discharge) for model Edea 30 and 16 m (suction) + 16 m (discharge) for model Edea 40, even if the total load loss is below the maximum applicable level.



CAUTION

For model Edea 30, beyond a total load loss between discharge and suction of 9 mm H20, remove the discharge diaphragm as illustrated in "Fig. 26".

For model Edea 40, beyond a total load loss between discharge and suction of 12 mm H20, remove the discharge diaphragm as illustrated in "Fig. 26".

Load loss accessory Ø 60 mm

		Load loss	Load loss (mm H ₂ 0)		
Description	Code	Edea 30			
		Inlet	Outlet		
Air/smoke split pipe system	8093060	2,5	0,5		
90° curve MF	8089921	0,5	1,1		
45° curve MF	8089922	0,45	0,9		
Horizontal extension W. 1000 mm	8089920	0,5	1,1		
Vertical extension W. 1000 mm	8089920	0,5	0,7		
Wall outlet terminal	8089541	_	1,4		
Wall inlet terminal	8089540	0,8	_		
Roof outlet terminal (*)	8091204	1,1	0,15		

		Load loss (mm H ₂ 0)		
Description	Code	Edea 40		
		Inlet	Outlet	
Air/smoke split pipe system	8093060	2,5	0,5	
90° curve MF	8089921	0,6	1,4	
45° curve MF	8089922	0,55	1,2	
Horizontal extension W. 1000 mm	8089920	0,6	1,4	
Vertical extension W. 1000 mm	8089920	0,6	0,8	
Wall outlet terminal	8089541	_	1,6	
Wall inlet terminal	8089540	1,1	_	
Roof outlet terminal (*)	8091204	1,5	0,2	



Load loss accessory Ø 80 mm

Description	Code	Load loss (mm H2O) Edea 30		
•		Inlet	Outlet	
90° curve MF	8077450	0,25	0,30	
45° curve MF	8077451	0,20	0,20	
Horizontal extension W. 1000 mm	8077351	0,20	0,20	
Vertical extension W. 1000 mm	8077351	0,20	0,20	
Wall terminal	8089501	0,10	0,35	
Roof outlet terminal (*)	8091204	1,10	0,15	
Duet 1::t C(10)2	6296550	-	-	
Duct kit C(10)3	6296543	-	1,8	

		Load loss (mm H ₂ O)		
Description	Code	Edea 40		
		Inlet	Outlet	
90° curve MF	8077450	0,30	0,4	
45° curve MF	8077451	0,25	0,25	
Horizontal extension W. 1000 mm	8077351	0,25	0,25	
Vertical extension W. 1000 mm	8077351	0,25	0,25	
Wall terminal	8089501	0,15	0,50	
Roof outlet terminal (*)	8091204	1,5	0,2	
Duct kit C(10)3	6296543	-	2,8	

(*) The losses of the roof outlet terminal at inlet include the manifold code 8091400.

NOTE: for the boiler to operate correctly it is necessary that a minimum distance of 0.50 m of the duct is respected with a 90° inlet curve.

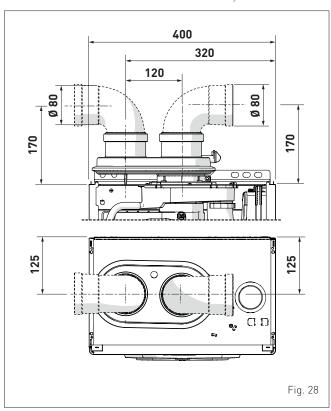
6.12.6 Separate ducts (Ø 50 mm)

The **Edea** boiler is configured for use in \emptyset 50 mm discharge flues. To ensure correct boiler operation, parameter PAR31 (long flues) should be set on the basis of the length of the installed flues, as indicated in the table.

PAR 31	Edea 30			
PARSI	Ø 50 mm outlet	Discharge diaphragm		
0	1 x 90° elbow + 2 metres	leave it mounted		
0	1 x 90° elbow + 6 metres	remove		
2	1 x 90° elbow + 10 metres	remove		
4	1 x 90° elbow + 14 metres	remove		
6	1 x 90° elbow + 18 metres	remove		
8	1 x 90° elbow + 22 metres	remove		
10	-	=		
12	-	-		

PAR 31	Edea 40		
PARSI	Ø 50 mm outlet	Discharge diaphragm	
0	1 x 90° elbow + 12 metres	remove	
2	-	-	
4	-	-	
6	-	-	
8	-	-	

NOTE: to remove the discharge diaphragm, proceed as illustrated in "Fig. 26".



Example: calculation of the load loss of a Edea 30 boiler.

Ai Ø 00	0-4-	0	Load loss (mm H ₂ O)		
Accessories Ø 80 mm	Code Quantity	Inlet	Outlet	Total	
Extension W. 1000 mm (horizontal)	8077351	9	9 x 0,20	ı	1,80
Extension W. 1000 mm (horizontal)	8077351	9	-	9 x 0,20	1,80
90° curve	8077450	2	2 x 0,25	-	0,50
90° curve	8077450	2	-	2 x 0,30	0,60
Wall terminal	8089501	1	0,10	-	0,10
Wall terminal	8089501	1	-	0,35	0,35
TOTAL					5,15

(installation permitted since the total of the load loss of the accessories used is less than 15 mmH₂O).



6.12.7 Separate ducts (Ø 80mm) with duct kit C(10)3

The **Edea** boiler is configured for use with type C(10)3 discharge ducts. To ensure correct boiler operation, certain parameters should be modified in relation to the power and type of fuel used to power the device.

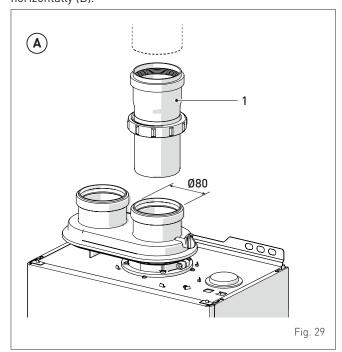
Set the parameters as specified in the table.

		Setting for Edea		
Type	No.	Description	30	
		METHANE	LPG	
PAR	09	Ignition revolutions	-	110
PAR	21	CH/DHW minimum power	15	10
Duct kit C(10)3 code		6296543	6296543	

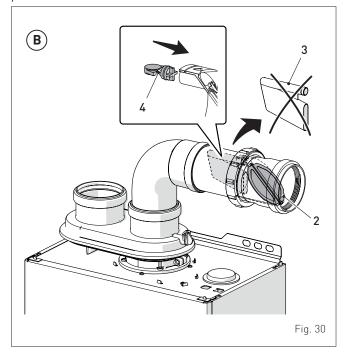
			Setting for Edea	
Туре	No.	Description	40	
			METHANE	LPG
PAR	09	Ignition revolutions	-	118
PAR	21	CH/DHW minimum power	9	11
Duct kit C(10)3 code		6296543	6296543	

NOTE: To modify the parameters in the table, proceed as specified in the paragraph "**Parameter setting and display**".

The duct kit C(10)3(1) can be installed both vertically A) and horizontally (B).



If it is installed horizontally, when positioning the internal butterfly valve make sure that its fins (2) face upwards, so that they remain closed by effect of their weight. Moreover, it is necessary to remove the siphon (3) and mount the cap (4) supplied with the kit.



6.13 Electrical connections

The power cable must be connected to a 230V $\{\pm 10\%\}$ ~ 50 Hz network, observing L-N polarity and the earth connection. The network must have an omnipolar switch with category III overvoltage, in compliance with the installation rules.

If this cable needs to be replaced, an original spare must be requested from **Sime Ltd**.

Therefore only the connections of the original components as shown in the table are needed. These are to be ordered separately from the boiler.

DESCRIPTION	CODE
External sensor kit (ß=3435, NTC 10K0hm at 25°C)	8094101
Power cable (dedicated)	6323875
Remote control HOME (open therm)	8092280
Remote control HOME PLUS (open therm)	8092281



CAUTION

The maintenance interventions described must ONLY be carried out the professionally qualified personnel.



WARNING

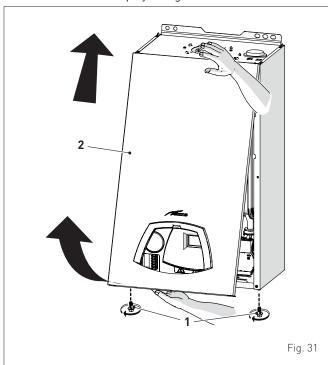
Before carrying out any interventions described:

- set the main system switch to "OFF"
- close the gas valve
- make sure that no hot parts inside the appliance are touched.

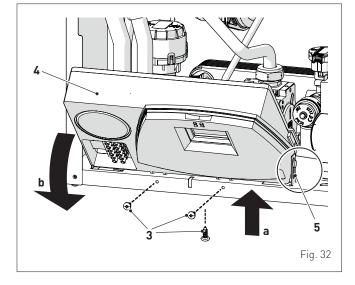


To facilitate introduction of the connection wires of the optional components into the boiler:

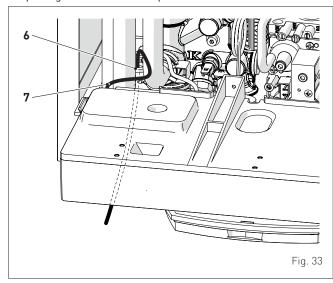
- remove the screws (1), pull the front panel (2) forwards and release it from the top by lifting it



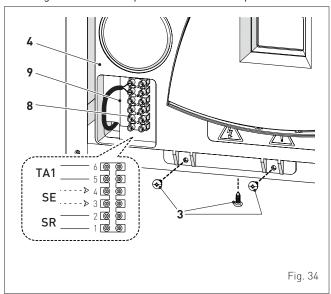
- remove the screws (3) securing the control panel (4)
- move the panel (4) upwards (a) but keeping it in the side guides (5) to the end of travel
- bring it forwards and down (b) until it is horizontal



 insert the connection wires into the cable gland (6) and the opening (7) on the control panel



- bring the control panel (4) to the original position and secure it with the screws (3) which were removed previously
- connect the component wires to the terminal board (8) following the indications provided on the data plate (9).





CAUTION

It is compulsory:

- to use an omnipolar cut-off switch, disconnect switch, in compliance with EN standards (contact opening of at least 3 mm)
- if the power cable is to be replaced, that ONLY a special cable is used with a factory produced rewired connector, ordered as a spare part and connected by a professionally qualified person
- to connect the earth wire to an effective earthing system (*)
- that before any intervention on the boiler, the mains power is disconnected by setting the main system switch to "OFF".
- (*) The manufacturer is not responsible for any damage caused by failure to earth the appliance or failure to observe the information provided in the wiring diagrams.





IT IS FORBIDDEN

To use water pipes for earthing the appliance.

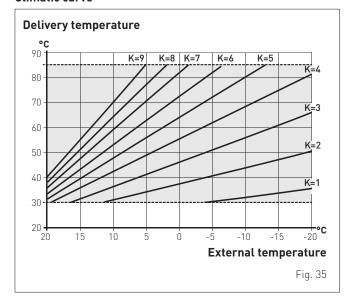
6.13.1 External temperature sensor

The boiler is prearranged for connection to an external air temperature sensor and can operate with a sliding temperature.

This means that the delivery temperature sent to the boiler can vary on the basis of the external temperature depending on the climatic curve selected from those shown in the diagram (Fig. 35).

When fitting the sensor on the outside of the building, follow the instructions provided on the packaging of the product it-

Climatic curve





CAUTION

If there is an external sensor, turn the heating knob until the required curve K has been selected within the range K=0.0 - K=9.0 in order to select the optimal climatic curve for the system and therefore the delivery temperature based on the external temperature.



CAUTION

The adjustment of the Maximum Heating Temperature is managed by "PAR 14" (see paragraph "List of parameters").

6.13.2 Chrono-thermostat or Air Thermostat

The electrical connection of the chrono-thermostat or air thermostat has already been described. When fitting the component in the room where the readings are to be taken, follow the instructions provided on the packaging of the product itself

6.13.3 EXAMPLE of use of the command/control device on some types of heating systems

KEY
M System delivery
R System return
CR Remote control
EXP Expansion card

SE External temperature sensor TA Air thermostat for boiler activation

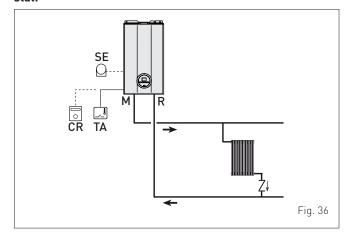
TZ1÷TZ3 Air thermostat for the zone

VZ1-VZ3 Zone valves
RL1-RL3 Zone relays
P1-P3 Zone pump
SP Hydraulic separator
IP Floor system

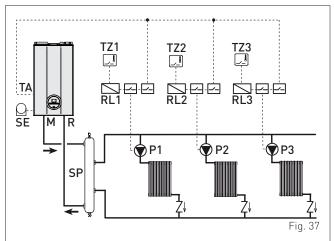
VM Thermostatic mixer valve

TSB Low temperature safety thermostat

ONE DIRECT ZONE system, external sensor and air thermostat.

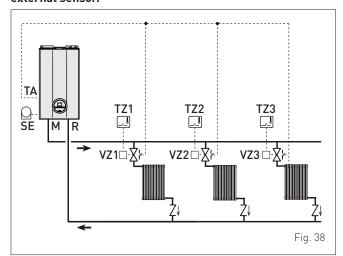


MULTI ZONE system - with pump, air thermostat and external sensor.





MULTI ZONE system - with zone valve, air thermostat and external sensor.





CAUTION

Set the parameter "tS 17 = DELAY SYSTEM PUMP ACTIVATION to allow the opening of zone valve Vz.

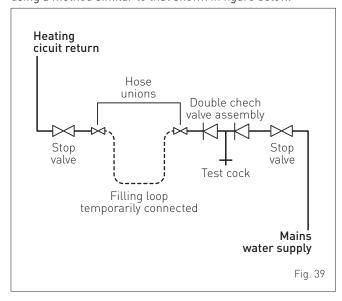
6.14 Refilling or emptying

Before carrying out the operations described below, make sure that the main system switch is set to "ON" in order for the display to show the pressure level in the system during refilling.

Make sure that the operating mode is set to "Stand-by"; if this is not the case, press the button $\bigcirc R$ for at least 1 second until this mode has been selected.

6.14.1 Method of filling a sealed system

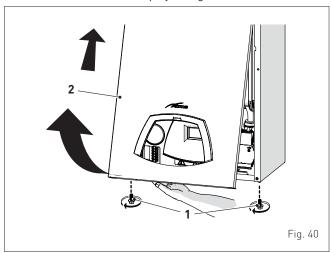
A sealed system must only be filled by a competent person using a method similar to that shown in figure below.



6.14.2 REFILL operations

Remove the front panel:

 remove the two screws (1), pull the front panel (2) forwards and release it from the top by lifting it.

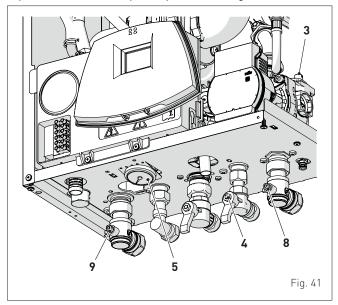


Domestic hot water circuit:

- open the domestic hot water circuit isolation valve (4)
- open one or more than one hot water valve to fill and bleed the domestic hot water circuit.

Heating circuit:

- open the isolation and air bleeding valves in the highest points of the system
- loosen the automatic bleed valve (3)
- open the heating circuit isolation valves (8) and (9)
- activate the filling system "Method of filling a sealed system", and fill the heating system until a pressure of 1-1.2 bar is shown on the display
- stop the filling system
- check that there is no air in the system by bleeding all the radiators and the circuit on the high points of the system.
 Connect a suitable pipe and use the heat exchanger bleed point (10) to vent the primary heat exchanger



NOTE: to completely remove all air from the system, it is recommended that this operation is repeated a number of times.



- check the pressure on the display, or on the pressure gauge, and, if necessary, top up until the correct pressure reading appears
- close the automatic bleed valve (3)fill the siphon by disconnecting it from the pipe or using the smoke take-off point.

Refit the front panel of the boiler hooking it on at the top, pushing it forwards and securing it with the screw (1) which was removed previously.

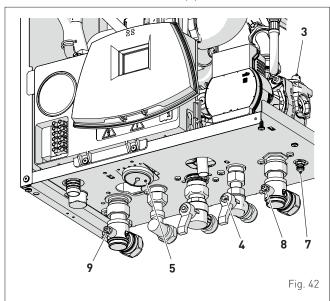
6.14.3 EMPTYING operations

Domestic hot water circuit:

- close the domestic hot water circuit isolation valve (4)
- open one or more than one hot water valve to fill and bleed the domestic hot water circuit.

Boiler:

- loosen the automatic bleed valve (3)
- close the heating circuit isolation valves (8) and (9)
- connect a rubber hose to the boiler drain valve (7) and open it
- when it has fully emptied, close the drain valve (7)
- close the automatic bleed valve (3).





7 COMMISSIONING

7.1 Preliminary operations



WARNING

- Should it be necessary to access the areas in the bottom part of the appliance, make sure that the system components and pipes are not hot (risk of burning).
- Before replenishing the heating system, put on protective gloves.

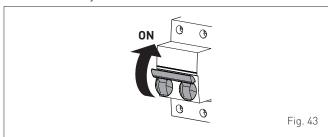
Before commissioning the appliance, check that:

- the type of gas is correct for the appliance
- the gas isolation valves for the heating system and the water system are open
- the siphon has been filled.

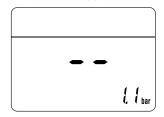
7.2 Before commissioning

After having carried out the preliminary operations, perform the following to start the boiler:

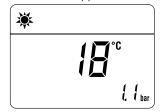
- set the main system switch to "ON"



the type of gas for which the boiler has been calibrated, "nG" (methane) or "LG" (LPG,) will appear followed by the power.
 After this the correct representation of the symbols will be checked and finally "--"will appear on the display



- check that the system pressure as shown on the display or on the pressure gauge, when the system is cold, is between 1 and 1.2 bar
- press the button **OR** once for at least 1 second to select "SUMMER mode" the value of the delivery sensor detected at that moment will appear on the display



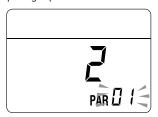
7.3 Parameter setting and display

To go into the parameter menu:

- from the selected mode (eg. WINTER)



- turn dials **IIII** and **f** to the maximum
- simultaneously press the + and buttons (~ 5 s) until "PAR 01" (parameter number) appears on the display along with the set value (0÷12) (consult the table in the "Unscheduled maintenance" paragraph)



 press the button + to scroll up the list of parameters and then - to scroll down the list

NOTE: holding the buttons + or - increases the speed of the scrolling movement.

 once the required parameter has been reached, press the button OR for approximately 3 seconds to confirm and access the set value which will then flash and can then be modified



- to modify the value in the permitted range, press the buttons + to increase it or to decrease it
- once the required value has been reached, press the button $\mathbf{\mathring{O}R}$ to confirm.

Once all the desired parameter values have been modified, **simultaneously** press, for ~ 5 s, the + and - buttons to exit the parameters menu, until the home page reappears.





7.4 List of parameters

Type	No.	Description	Range	U/M	Step	Default
		CONF	GURATION			
PAR	01	Index showing boiler power in kW	2 = 30 kW (G20) 4 = 40 kW (G20) 8 = 30 kW (G31) 10 = 40 kW (G31)	-	1	2; 4; 8 ; 10
PAR	02	Hydraulic configuration	0 = rapid 1 = storage tank with thermostat or heating only 2 = hot water tank with sensor 3 = bithermic 4=instant with solar power input 5 = open vent 6 = boiler with heat pump 9 =Hybrid Wall" 10 = Hybrid Wall "T" hot water tank boiler	-	1	0
PAR	07	Thermal gradient for Hybrid Wall defrosting aid	030	°C/min	1	10
PAR	08	External sensor value correction -5 +5		°C	1	0
PAR	09	Ignition fan speed	80 160	RPMx25	1	128
		DOMESTIC HO	WATER - HEATING			
PAR	10	Boiler Antifreeze Threshold	0 +10	°C	1	3
PAR	11	External Sensor Antifreeze Threshold = Disabled	-9 +5	°C	1	-2
PAR	12	Heating Curve Incline	080	-	1	20
PAR	13	Minimum Heating Temperature Adjustment 20 PAR 14		°C	1	20
PAR	14	Maximum Heating Temperature Adjustment PAR 13 80		°C	1	80
PAR	15	Maximum power heating	0100	%	1	100
PAR	16	Heating Post-Circulation Time	0 99	seconds x 10	1	3
PAR	17	Heating Pump Activation Delay	060	seconds x 10	1	0
PAR	18	Heating Re-ignition Delay	0 60	Min	1	3
PAR	19	Domestic Hot Water Modulation with Flow meter	0 = Disabled 1 = Enabled	-	1	1
PAR	20	Maximum power domestic hot water	0 100	%	1	100
PAR	21	Minimum power heating/domestic hot water (premixed)	0 100	%	1	0
PAR	22	Domestic hot water preheating enabling	0 = OFF 1 = ON	-	1	0
PAR	23	External relay 1 function	0 = not used 1 = remote alarm NO 2 = remote alarm NC 3 = zone valve 4 = automatic filling 5 = external request 6 = recirculation pump 7 = zone valve with OT 8 = relaunch pump 9 = boiler with heat pump (circulator)	-	-	0
PAR	24	External relay 2 function	0 = not used 1 = remote alarm NO 2 = remote alarm NC 3 = zone valve 4 = automatic filling 5 = external request 6 = recirculation pump 7 = zone valve with OT 8 = relaunch pump 9 = boiler with heat pump (circulator) 13 = management of the heat pump for Hybrid Wall	-	-	0



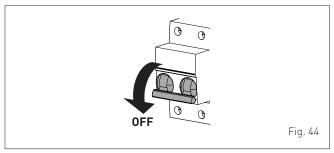
Туре	No	Description	Range	U/M	Step	Default
PAR	25	Auxiliary TA function	0 = according to TA 1 = TA Antifreeze 2 = domestic hot water disabled	-	1	0
PAR	26	Zone Valve / Pump Relaunch Delay	0 99	Min	1	1
PAR	28	DHW activation delay with solar power	0 30	Min	1	0
PAR	29	Anti-legionella Function (Only hot water tank) = Disabled	50 80	-	1	
PAR	30	Maximum domestic hot water temperature	10 67	°C	1	60
PAR	31	Long chimney	0 50	-	1	0
PAR	35	Digital / analogue Pressure switch	0 = water pressure switch 1 = water pressure transducer (with ALL 09) 2 = water pressure transducer (without ALL 09)	-	1	1
PAR	39	Modulating pump minimum speed	20 100	%	1	30
PAR	40	Modulating Pump Speed	= No modulation AU = Automatic 30 100	%	10	AU
PAR	41	ΔT Modulating pump delivery/Return	10 40	°C	1	20
PAR	42	Select heat pump or boiler convenience (only if PAR 02 = 6,9,10)	-20 30	°C	-	5
PAR	43	Heat pump boiler aid activation delay (only if PAR 02 = 6,9,10)	1 60	Min	-	20
PAR	44	Hybrid Wall heat pump delivery safety device	0 80	°C	1	55
PAR	47	7 System pump forcing (only in winter mode) 0 = Disabled 1 = Enabled		-	1	0
		RE	ESET			
PAR	48	INST Parameter set to default	01	-	-	0

In the event of a fault/malfunction the message "ALL" will appear on the display with the alarm number eg. "ALL 04" (Domestic Hot Water Sensor Fault).



Before repairing the fault:

 disconnect the appliance from the mains power by setting the main switch to "OFF"



- as a precautionary measure, close the gas isolation valve.

Repair the fault and start-up the boiler again.

NOTE: after having repaired the fault, when the alarm number appears on the display together with the message **RESET** \bigcirc (see figure), press the button \bigcirc \bigcirc \bigcirc for approximately 3 seconds to start the appliance up again.

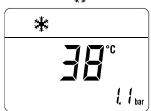


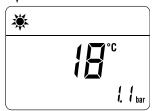


7.5 Display of operating data and counters

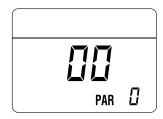
Once the boiler is operating a qualified technician can view the operating data and the counters as follows:.

From the operating screen in the mode enabled at that moment (WINTER ** or SUMMER **):



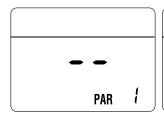


- turn the heating ${
 m I\hspace{-.1em}I\hspace{-.1em}I}$ and hot water ${
 m 1\hspace{-.1em}I\hspace{-.1em}I\hspace{-.1em}I}$ knobs to the minimum
- simultaneously press, for more than 3 s, the + and buttons.



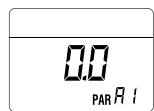
From this point, the technician has 2 options:

 pressing the + button will scroll the list of "information (PAR)" and of the "counters (PARc)". The scrolling sequence is as follows





- pressing the - button will show the "alarms occurred" (PARa)



- move within the displayed items using the or + buttons
- once the desired values have been displayed, to exit the menu press the \mathbf{OR} button until the home page appears.





TABLE OF INFORMATION DISPLAYED

Type	No.	Description	Range	U/M	Step
PAR	00	SW version			
PAR	01	External temperature sensor	- 9 99	°C	1
PAR	02	Delivery sensor temperature	- 9 99	°C	1
PAR	03	Smoke probe	- 9 99	°C	1
PAR	04	Domestic hot water sensor temperature	- 9 99	°C	1
PAR	05	AUX auxiliary sensor	- 9 99	°C	1
PAR	06	Actual heating SET temperature	Par. 13 Par. 14	°C	1
PAR	07	Power level	099	%	1
PAR	08	Flow meter rate	099	l/min	0.1
PAR	09	Water pressure transducer reading	099	bar	0.1
PAR	10	Display of current fan revolutions	099	RPM x 100	1

TABLE OF COUNTER DISPLAYED

Туре	No.	Description	Range	U/M	Step
PAR	c0	total no. of boiler operating hours	0 99	h x 1000	0.1; from 0.0 to 9.9; 1; from 10 to 99
PAR	c1	total no. of burner operating hours	0 99	h x 1000	0.1; from 0.0 to 9.9; 1; from 10 to 99
PAR	c2	total no. of burner ignitions	0 99	h x 1000	0.1; from 0.0 to 9.9; 1; from 10 to 99
PAR	c3	total no. faults	099	x 1	1
PAR	с4	total no. of times installer parameters "ALL"accessed	0 99	x 1	1
PAR	c5	total no. of times OEM parameters accessed	0 99	x 1	1
PAR	с6	time until next maintenance intervention	1 199	months	1

TABLE OF ACTIVATED ALARMS/FAULTS

Туре	No.	Description	
PAR	A0	Last activated alarm/fault	
PAR	A1	Last but one activated alarm/fault	
PAR	A2	Third from last activated alarm/fault	
PAR	А3	Previous activated alarm/fault	
PAR	A4	Previous activated alarm/fault	
PAR	A5	Previous activated alarm/fault	
PAR	A6	Previous activated alarm/fault	
PAR	A7	Previous activated alarm/fault	
PAR	A8	Previous activated alarm/fault	
PAR	A9	Previous activated alarm/fault	



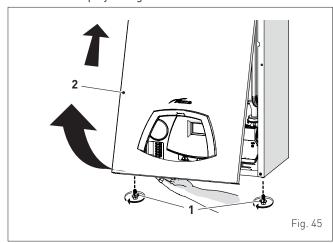
7.6 Checks

7.6.1 Chimney sweeper function

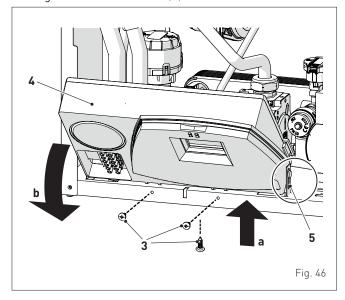
The chimney sweeper function is used by the qualified maintenance technician to check the mains gas pressure, detect the combustion parameters and to measure the combustion efficiency required by legislation in force.

This function lasts 15 minutes and is activated by proceeding as follows:

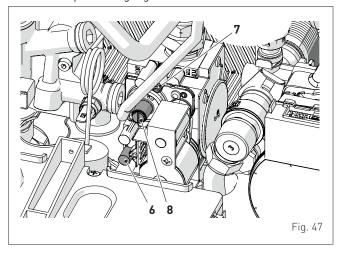
 if the panel (2) has not already been removed, remove the two screws (1), pull the front panel (2) forwards and release it from the top by lifting it



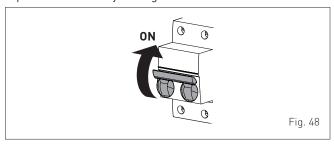
- remove the screws (3) securing the control panel (4)
- move the panel (4) upwards (a) but keeping it in the side guides (5) to the end of travel
- bring it forwards and down (b) until it is horizontal



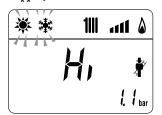
- close the gas valve
- loosen the screw of the "gas mains pressure point" (6) and connect a pressure gauge



- open the gas valve
- power the boiler by setting the main switch to "ON"



- press the button ♥ R for at least 1 second until "SUMMER" mode ♣ has been selected
- simultaneously press the $\bigcirc \mathbf{R}$ and + buttons, for \sim 10 s, to start the procedure, until "Hi" appears steady on the display and the $\stackrel{\bullet}{\Longrightarrow}$ and $\stackrel{\bullet}{\Longrightarrow}$ symbols flash



- press the button + to make the boiler operate at maximum power "Hi" and check that the mains gas pressure value on the pressure gauge is correct. Take a reading of the combustion data and measure the combustion efficiency.
- check that the gas supply pressure is as shown in the table below

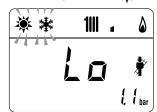
Type of gas	G20	G31
Pressure (mbar)	20	37



measure the CO₂ and verify that it corresponds to the value appearing in the table. If not, turn the "CO₂ adjuster screw (splitter)" (7) of the gas valve until you obtain the CO₂ value of the table. Make any other necessary measurements.

	CO ₂ (G20)	CO ₂ (G31)
Edea	Qmax (% ± 0,2)	Qmax (% ± 0,2)
30	9,2	10,2
40	9,3	10,0

 press the button — to make the boiler operate at minimum power "Lo". The message "Lo" will appear on the display together with the flashing symbols and and and appear of the display



- measure the CO₂ and verify that it corresponds to the value appearing in the table. If not, turn the "CO₂ adjuster screw to the minimum power (offset)" (8) of the gas valve until you obtain the CO₂ value of the table. Make any other necessary measurements.
- record in Benchmark commissioning Check list (page 50).

	CO ₂ (G20)	CO ₂ (G31)
Edea	Qmin (% ± 0,2)	Qmin (% ± 0,2)
30	9,2	10,0
40	9,1	10,0

NOTE: There are negligeable losses of working gas pressure attributable to the boiler as the gas cock is connected directly to the gas valve.

– press the button $\bigcirc \mathbf{R}$ to exit the "Chimney sweeper Procedure". The boiler water delivery temperature will appear on the display



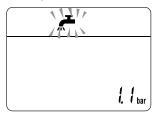
 disconnect the pressure gauge, carefully close the pressure point (6), put the control panel back to the original position and refit the front panel (2).

7.7 Domestic hot water comfort function (preheating)

Edea models have a "domestic hot water comfort" function which ensures the best performance in terms of domestic hot water, reducing the time necessary for the hot water to become available and ensuring that the temperature is stable.

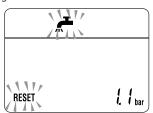
To activate the function:

- select parameter"PAR 22" (see "Parameter setting and display") and set it to a 1
- exit parameter settings and press button + for approximately 5 seconds until the symbol = appears on the display and begins to flash indicating that the function has been activated.



To deactivate the function:

 press button + again for approximately 5 seconds until the symbols and RESET appear on the display and begin to flash indicating that the function has been deactivated.





7.8 Gas conversion

(*) To set parameter PAR 01 correctly, check the fan model on the technical data plate and set the parameter according to the installed model as described in the paragraph "List of parameters".



CAUTION

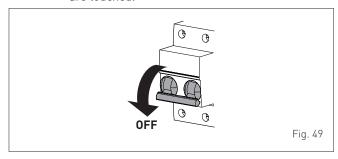
The maintenance interventions described must ONLY be carried out the professionally qualified personnel



WARNING

Before carrying out any interventions described:

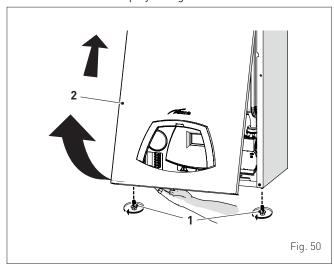
- set the main system switch to "OFF"
- close the gas valve
- make sure that no hot parts inside the appliance are touched.



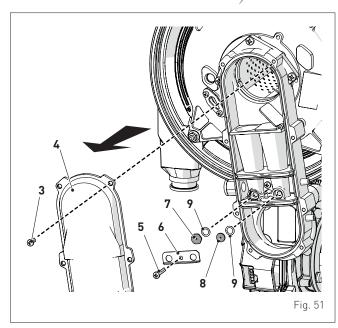
7.8.1 Preliminary operations

To carry out the conversion:

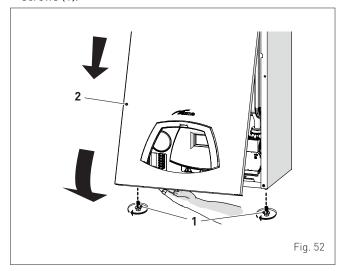
- remove the screws (1), pull the front panel (2) forwards and release it from the top by lifting it



- loosen the eight screws (3) and remove the cover (4)
- unscrew the screw (5) and remove the plate (6)



- replace the two distinct nozzles (7) and (8) and the related O-ring (9) with those provided in the conversion kit. Having two distinct nozzle heads avoids them being inverted during assembly
- refit the plate (6) and cover (4) following the above instructions in reverse order
- replace the smoke outlet diaphragm, if present in the transformation kit, as illustrated in "Fig. 26"
- access the installer parameters and modify parameter PAR 01 on the basis of the power and gas used, as indicated in the table in the "Unscheduled maintenance") paragraph
- perform the "Chimney sweeper function" function to correctly set the CO₂ of the boiler with the new gas and then mount the front panel (2) back on, securing it with the two screws (1).





CAUTION

Conversion may ONLY be carried out by Professionally Qualified Personnel.



CAUTION

If the gas supply is changed from G20 to G31, mark the box on the TECHNICAL DATA PLATE.

G31 - 37 mbar





8 MAINTENANCE

8.1 Adjustments

For the appliance to operate correctly and efficiently it is recommended that the User calls upon the services of a Professionally Qualified Technician to carry out **ANNUAL** maintenance.



CAUTION

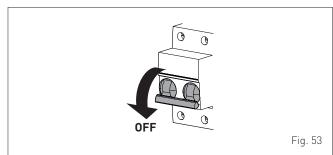
- The maintenance interventions described must ONLY be carried out the professionally qualified personnel who MUST wear suitable protective safety equipment.
- Make sure that the system components and pipes are not hot (risk of burning).



WARNING

Before carrying out any interventions described:

- set the main system switch to "OFF"
- close the gas valve
- make sure that no hot parts inside the appliance are touched.



1.1 External cleaning

1.1.1 Cleaning the cladding

When cleaning the cladding, use a cloth dampened with soap and water or alcohol for stubborn marks.



IT IS FORBIDDEN

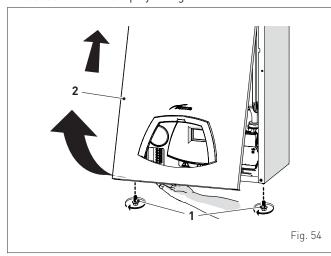
to use abrasive products.

8.2 Cleaning the inside of the appliance

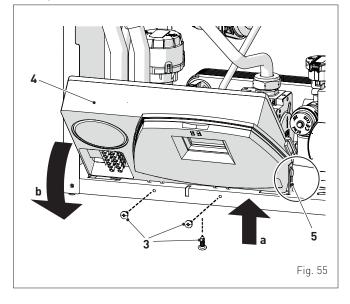
8.2.1 Removing components

To access the internal parts of the boiler:

- remove the screws (1), pull the front panel (2) forwards and release it from the top by lifting it

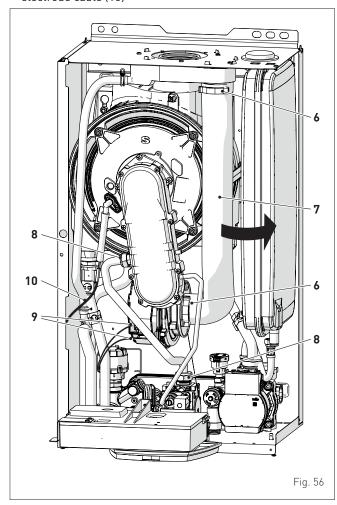


- remove the screws (3) securing the control panel (4)
- move the panel (4) upwards (a) but keeping it in the side guides (5) to the end of travel
- bring it forwards and down (b) until it is horizontal

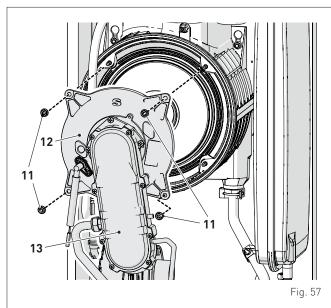




- loosen the clips (6) and extract the air inlet pipe (7)
- loosen both the ring nuts (8)
- extract the connectors (9) from the fan and disconnect the electrode cable (10)



- Unscrew the four nuts (11) securing the combustion chamber door (12)
- pull the fan-sleeve-door assembly (13) forwards and remove it.





CAUTION

Work carefully when removing the assembly (13) to prevent any damage occurring to the internal insulation of the combustion chamber and the door seal.

8.2.2 Cleaning the burner and the combustion chamber

The combustion chamber and the burner do not require any particular maintenance. Simply brush them with a soft brush.

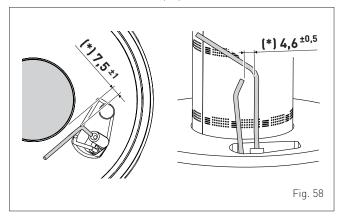
8.2.3 Checking the ignition/detection electrode

Check the state of the ignition/detection electrode and replace if necessary. Check the measurements as per the drawing whether the ignition/detection electrode is replaced or not.



CAUTION

(*) The positions must be checked with the electrode mounted on the door (12) of the combustion chamber.



8.2.4 Final operations

After having cleaned the combustion chamber and the burner:

- remove any carbon residue
- check that the seal and the insulation of the door (12) to the combustion chamber are integral. Replace if necessary
- refit the assembly by carrying out the same operations for removal but in the reverse order and tighten the screws (11) of the door to the combustion chamber
- reconnect the connections to the fan and the electrode.

8.3 Checks

8.3.1 Checking the smoke duct

It is recommended that the user checks that the combustion air inlet duct and smoke outlet duct are integral and airtight.

8.3.2 Checking the expansion vessel pressure

It is recommended that the expansion vessel on the water side is drained and that the prefilling pressure is not less than 1 bar. If this is not the case, pressurize it to the correct value (see section "Expansion vessel").

8.3.3 System Inhibiter concentration

Check and if required correct the inhibiter concentration.

Once the checks described above have been completed:

- refill the boiler as described in section "REFILL operations"
- check that the siphon has been filled correctly
- Start the boiler, activate the "Chimney sweeper function" and carry out a smoke analysis and/or measure the combustion efficiency
- refit the front panel securing it with the two screws which were removed previously.



8.4 Unscheduled maintenance

If replacing the **electronic board**, the user MUST set the parameters as indicated in the table and in the sequence shown.

Turna	Ma	Description		Setting	for Edea
Type	No.	Description	30 40		40
PAR	01	Index showing for	G20	2	4
PAR	01	boiler power in kW	G31	8	10
PAR	02	Hydraulic configurati 0 = rapid 1 = storage tank with thermostat or heatin 2 = hot water tank wi sensor 3 = bithermic 4=instant with solar pinput 5 = open vent 6 = boiler with heat p	g only th	()

(*) To set parameter PAR 01 correctly, check the fan model on the technical data plate and set the parameter according to the installed model as described in the paragraph "List of parameters".

To enter "Parameter setting and display" refer to the indications provided in the specific section.

If the **gas valve** are replaced, the user must still carry out the entire phase of "**Chimney sweeper function**" described in the specific section.

8.5 Malfunction codes and possible solutions LIST OF MALFUNCTION/FAULT ALARMS

		ONOTION, TAGET AL	
Туре	No.	Fault	Solution
ALL	02	Low water pressure in system	- Restore pressure - Check for any leaks in the system
ALL	03	High water pressure in system	- Empty the system via the drain valve on the hydraulic assembly and bring the pressure to approximately 1.2 bar
ALL	04	Domestic hot water sensor fault (return sensor fault for T models)	- Check connections - Check the sensor is working
ALL	05	Delivery sensor fault	- Check connections - Check the sensor is working
ALL	06	No flame detection	- Check the integrity of the electrode and check that it is not grounded - Check gas availability and pressure - Check the integrity of the gas valve and the card
ALL	07	Safety thermostat intervention	- Check the thermostat connections - Deaerate the system - Check the bleed valve - Replace the thermostat - Check that the pump impeller is not blocked
ALL	08	Fault in the flame detection circuit	- Check the integrity of the electrode and check that it is not grounded - Check the integrity of the gas valve and the card

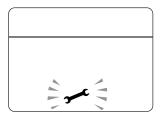
Туре	No.	Fault	Solution
ALL	09	No water circulating in the system	- Check the rotation of the pump rotor - Check the electrical connections - Replace the pump
ALL	10	Auxiliary sensor fault	- Check PAR 02 "hydraulic configuration" - Check the electrical connection
ALL	11	Gas valve modulator disconnected	- Check the electrical connection
ALL	12	Domestic hot water sensor fault in tank mode	- Set the parameter PAR 04 (Combustion configuration) to 0
ALL	13	Smoke probe intervention	- Check the sensor is working - Replace the smoke probe
ALL	14	Smoke probe fault	- Replace the smoke probe - Check the electrical connection of the smoke probe - Contact the Technical Assistance Centre
ALL	15	Fan check cable disconnected	- Check the connection cable between the fan and the board
ALL	18	Condensate level fault	- Check for any clogging in the pipe which takes the condensate to the siphon - Check that the siphon is not clogged
ALL	28	Maximum number of consecutive resets reached	- Wait 1 hour and try unblocking the board again - Contact the Technical Assistance Centre
ALL	30	Return sensor fault (boiler sensor fault for T models)	- Replace the return probe - Check parameters - Contact the Technical Assistance Centre
ALL	37	Fault due to low network voltage	- Check the voltage - Contact your network provider
ALL	40	Incorrect network frequency detected	- Contact your network provider
ALL	41	Flame loss more than 6 consecutive times	- Check the ignition/ detection electrode - Check the gas supply (open valve) - Check mains gas pressure
ALL	42	Button fault	- Check that buttons are working
ALL	43	Open Therm communication fault	- Check the OT electric connection
ALL	44	Gas valve timeout fault without flame	- Check gas valve and board
ALL	72	Incorrect positioning of the delivery sensor	- Check delivery sensor operation and position
ALL	80	Fault on the valve control logic line/ valve cable damaged	- Check gas valve and board
ALL	88	Internal error (board component protection)	- Check the board is working - Replace board
ALL	95	Flame signal micro interruptions error	- Check electrode - Check board - Check electric power supply - Check gas calibration



Туре	No.	Fault	Solution
ALL	98	SW error, board start-up	- Contact the Technical Assistance Centre
ALL	99	General board error	- Contact the Technical Assistance Centre
-	-	Frequent relief valve intervention	- Check circuit pressure - Check expansion vessel
-	-	Limited production of domestic hot water	- Check the diverter valve - Check that plate heat exchanger is clean - Check domestic hot water circuit valve

8.5.1 Maintenance request

When it is time to perform maintenance on the boiler, the $\ensuremath{\checkmark}$ symbol shows on the display.



Contact the technical assistance service to organise the necessary work.



GAS BOILER SYSTEM COMMISSIONING CHECKLIST & WARRANTY VALIDATION RECORD

Address:																			
Boiler make and model:					, ,			,	, ,									,	
Boiler serial number:																			
Commissioned by (PRINT NA	ME):					G	as Safe	regist	ration n	umber:									
Company name:						Te	elephon	e num	ber:										
Company email:						C	ompany	addre	ess:										
													Comn	nission	ning d	late:			
Heating and hot water system	complies with the	he appropriate Bu	ilding Reg	ulation	ns?													Yes	
Optional: Building Regulations	s Notification Nu	mber (if applicabl	e):																
Time, temperature control and	d boiler interlock	provided for cent	ral heating	and h	ot water													Yes	
Boiler Plus requirements (tick	the appropriate	box(s))																	
Boiler Plus option chosen for	combination boil	er in ENGLAND				W	leather Load		ensation ensation		Smart t	hermo	ostat wi	th auto			d optimis leat Rec		
Time and temperature control	to hot water			Cylind	ler therm	nostat a	and prog	ıramm	er/timer							Com	bination	boiler	
Zone valves		pr	e-existing						Fitted								Not red	quired	
Thermostatic radiator valves		pr	e-existing						Fitted								Not red	quired	
Automatic bypass to system pre-existing								Fitted								Not red	uired		
Underfloor heating pre-existing								Fitted								Not red			
Water quality																		1	
The system has been flushed	. cleaned and a	suitable inhibitor	applied upo	on fina	I fill. in a	ccorda	nce with	BS75	593 and	boiler m	nanufactu	ırers' i	instruct	ions				Yes	
			applied up	J	, u		rand:			201101 11	- Idirara		Produ						
What system cleaner was use	eu :					_							_						
What inhibitor was used? Primary water system filter pre-existing					В	rand:						Produ	ICT:						
Primary water system filter		· ·							Fitted								Not red	quired	
CENTRAL HEATING MODE r	measure and rec	cord (as appropria	te)																
Gas rate (for combination boil	ers complete DF	HW mode gas rate	e)						m³/hr			or							ft³/hr
Central heating output left at factory settings?										Yes	3							No	
If no, what is the maximum ce	entral heating ou	tput selected?																	kW
Dynamic gas inlet pressure																			mbar
Central heating flow temperat	ure																		°C
Central heating return temper	ature																		°C
System correctly balanced/rel	palanced?																	Yes	
COMBINATION BOILERS ON	NLY																		
Is the installation in a hard wa	ter area (above	200ppm)?								Yes								No	
Water scale reducer/softener	,	pr	e-existing				Fitted			Not required			uired						
What type of scale reducer/sc	oftener has been		- · · · · · · · · · · · · · · · · · · ·		Brand:					Product:									
Water meter fitted?	nterior ride been				Drana.					Yes		No No							
If yes- DHW expansion vesse	1	pr	e-existing							Fitted		Not required			- 1				
Pressure reducing valve	1		e-existing							Fitted							Not req		
	DE Magazira an	<u> </u>	e-existing							Tittet	<u>' </u>						Not req	ulleu	
DOMESTIC HOT WATER MC	DDE Measure an	la recora			T				2/1	.									£1271
Gas rate									m³/hr			or							ft³/hr
Dynamic gas inlet pressure at	maximum rate																		mbar
Cold water inlet temperature	-4 -1141-4-								\/		T	_4							°C
Hot water has been checked a	at all outlets								Yes		Tempera	ature							°C
	on installed in as	poordange with the	manufact	uroro'	inetrueti	one one	d/or DCI	5E 4 G / E	26700										Yes
The condensate drain has been installed in accordance with the manufacturers					IIIStructi	UIIS all	u/01 b3:							. 4 1				1)	168
Point of termination									ternal		External (Offity v	viiere ii	iterriai	lemi	IIIIalion			
Method of disposal								G	ravity								Pum	pea	
ALL INSTALLATIONS																			
Record the following At max rate: CO				pp	_				%	CO/							Ratio		
At min rate (where possible)						pp					%		CO ₂					F	Ratio
Where possible, has a flue integrity check been undertaken in accordance with						facturers' instructions, and readings are correct?			Yes										
The operation of the boiler and		tood by the customer			Yes														
The manufacturers' literature,	The manufacturers' literature, including Benchmark Checklist and Service Record, has been explained and left with the customer Yes																		
Commissioning Engineer's sig	gnature																		
Customer's signature (To confirm satisfactory demo	nstration and red	ceipt of manufactu	urers' litera	ture)															

^{*} All installations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer.





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SERVICE & INTERIM BOILER WORK RECORD

It is recommended that your boiler and heating system are regularly serviced and maintained, in line with manufacturers' instructions, and that the appropriate service / interim work record is completed.

Signature:

Service provider

When completing a service record (as below), please ensure you have carried out the service as described in the manufacturers' instructions. Always use the manufacturers' specified spare parts.

SERVIC	E/INTER	IM WORK O	N BOIL	ER delete as	appropriate	Date:		
Engineer	name:		Compan	ny name:				
Telephone	e Nº:		Gas Saf	Gas Safe registration No:				
Max rate	СО	ppm	CO ₂	%	CO/CO ₂			
Min rate	СО	ppm	CO ₂	%	CO/CO ₂			
Where possible, has a flue integrity check been undertaken in accordance with manufacturers' instructions, and readings are correct?"					yes			
Gas rate:		m³/h	OR		ft³/h			
Were part	s fitted?del	ete as appropriate	Yes		No			
Parts fitte	d:							
appropria	te action ta	ncentration has aken, in accord urers' instructi	dance wit				n/a	
Comment	s:							
Signature) :							

^{*}A System inhibitor efficacy test is required on every annual service in accordance with the manufacturers' instructions and BS 7593. It is only acceptable to not have undertaken this if the service engineers attendance visit was in between annual services to attend a non-water facing component.

SERVIC	E/INTER	IM WORK O	N BOIL	ER delete as	appropriate	Date:		
Engineer	name:		Compar	Company name:				
Telephone	e Nº:		Gas Safe registration N°:					
Max rate	CO	ppm	CO ₂	%	CO/CO ₂			
Min rate	CO	ppm	CO ₂	%	CO/CO ₂			
Where possible, has a flue integrity check been undertaken in accordance with manufacturers' instructions, and readings are correct?"						yes		
Gas rate:		m³/h	OR		ft³/h			
Were part	s fitted?del	ete as appropriate	Yes		No			
Parts fitte	d:							
System inhibitor concentration has been checked and appropriate action taken, in accordance with BS 7593 and boiler manufacturers' instructions. *						yes	n/a	
Comment	Comments:							
Signature):							

^{*}A System inhibitor efficacy test is required on every annual service in accordance with the manufacturers' instructions and BS 7593. It is only acceptable to not have undertaken this if the service engineers attendance visit was in between annual services to attend a non-water facing component.

SERVIC	E/INTER	IM WORK O	N BOILE	ER delete as	appropriate	Date:			
Engineer	name:		Compan	Company name:					
Telephone	Nº:		Gas Safe registration N°:						
Max rate	CO	ppm	CO2	%	CO/CO ₂				
Min rate	CO	ppm	CO ₂	%	CO/CO ₂				
Where possible, has a flue integrity check been undertaken in accordance with manufacturers' instructions, and readings are correct?"					yes				
Gas rate:		m³/h	OR		ft³/h				
Were part	s fitted?del	ete as appropriate	Yes No						
Parts fitte	d:								
appropriat	System inhibitor concentration has been checked and appropriate action taken, in accordance with BS 7593 and boiler manufacturers' instructions.*						n/a		
Comments:									
Signature):								

^{*}A System inhibitor efficacy test is required on every annual service in accordance with the manufacturers' instructions and BS 7593. It is only acceptable to not have undertaken this if the service engineers attendance visit was in between annual services to attend a non-water facing component.

^{*}A System inhibitor efficacy test is required on every annual service in accordance with the manufacturers' instructions and BS 7593. It is only acceptable to not have undertaken this if the service engineers attendance visit was in between annual services to attend a non-water facing component.

						•			
SERVIC	E/INTER	IM WORK O	N BOILE	ER delete as	appropriate	Date:			
Engineer i	name:		Compan	y name:					
Telephone N°:			Gas Safe	e registration	n Nº:				
Max rate	CO	ppm	CO2	%	CO/CO ₂				
Min rate	СО	ppm	CO2	%	CO/CO ₂				
Where possible, has a flue integrity check been undertaken in accordance with manufacturers' instructions, and readings are correct?"					yes				
Gas rate:		m³/h	OR		ft³/h				
Were part	s fitted?del	ete as appropriate	Yes	Yes No					
Parts fitted	d:								
appropriat	te action to	ncentration has aken, in accord urers' instructi	dance with			yes	n/a		
Comment	s:								
Signature):								

^{*}A System inhibitor efficacy test is required on every annual service in accordance with the manufacturers' instructions and BS 7593. It is only acceptable to not have undertaken this if the service engineers attendance visit was in between annual services to attend a non-water facing component.

SERVIC	E/INTER	IM WORK O	N BOIL	ER delete as	appropriate	Date:			
Engineer	name:		Compar	Company name:					
Telephone	Nº:		Gas Safe registration N°:						
Max rate	CO	ppm	CO ₂	%	CO/CO ₂				
Min rate	СО	ppm	CO ₂	%	CO/CO ₂				
Where possible, has a flue integrity check been undertaken in accordance with manufacturers' instructions, and readings are correct?"				yes					
Gas rate:		m³/h	OR		ft³/h				
Were part	s fitted?del	lete as appropriate	Yes No						
Parts fitte	d:								
appropriat	te action to	ncentration has aken, in accord urers' instructi	dance wit				n/a		
Comment	Comments:								
Signature	Signature:								

^{*}A System inhibitor efficacy test is required on every annual service in accordance with the manufacturers' instructions and BS 7593. It is only acceptable to not have undertaken this if the service engineers attendance visit was in between annual services to attend a non-water facing component.

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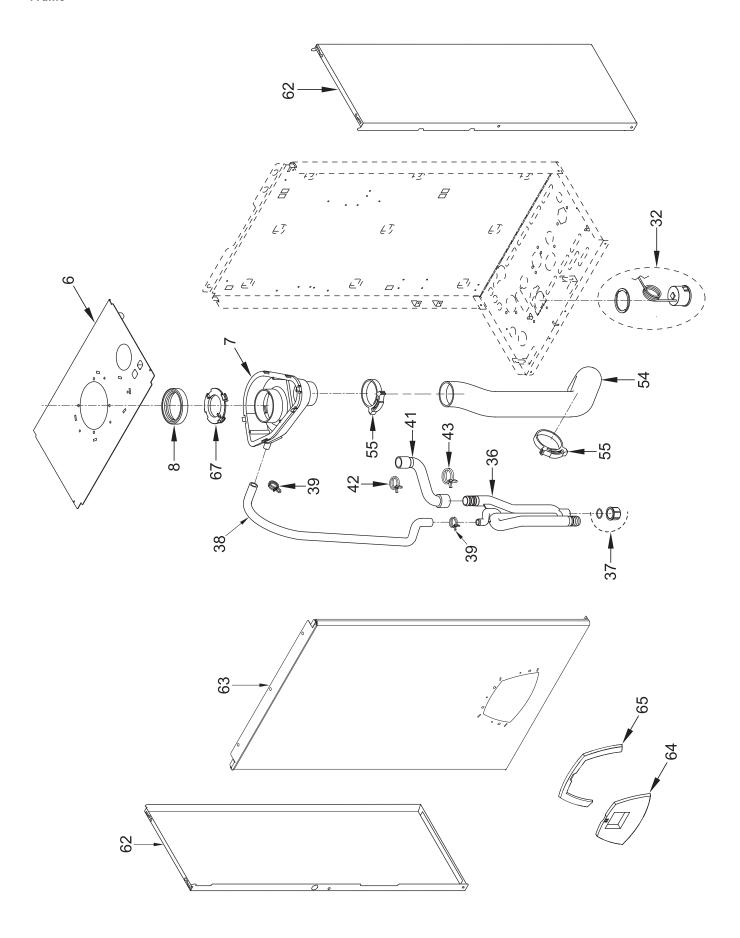
SERVICE/INTERIM WORK ON BOILER delete as appropriate Date: Engineer name: Company name: Telephone No: Gas Safe registration No Max rate CO ppm CO2 % CO/CO₂ Min rate CO ppm CO2 % CO/CO: Where possible, has a flue integrity check been undertaken in accordance with manufacturers' yes instructions, and readings are correct?" Gas rate: m³/h ft3/h Were parts fitted?delete as appropriate Yes No Parts fitted: System inhibitor concentration has been checked and appropriate action taken, in accordance with BS 7593 yes n/a and boiler manufacturers' instructions. Comments

^{*} All installations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer.



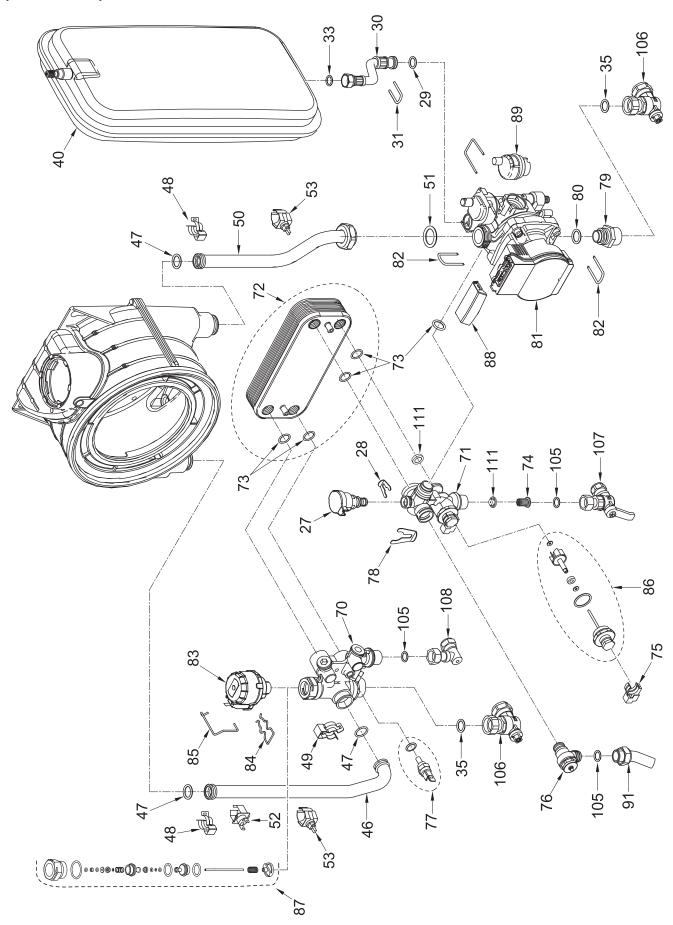
9 EXPLODED VIEWS

Frame



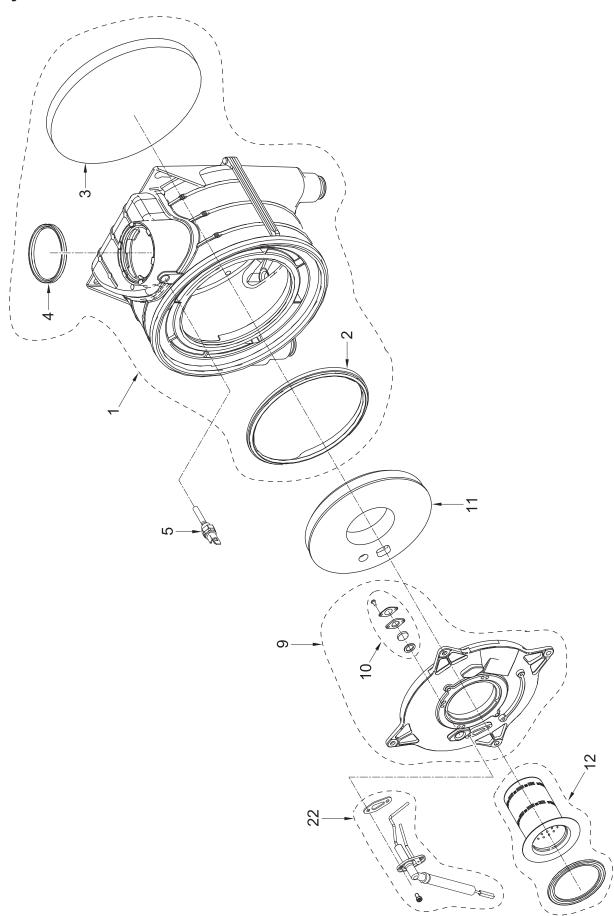


Hydraulic assembly



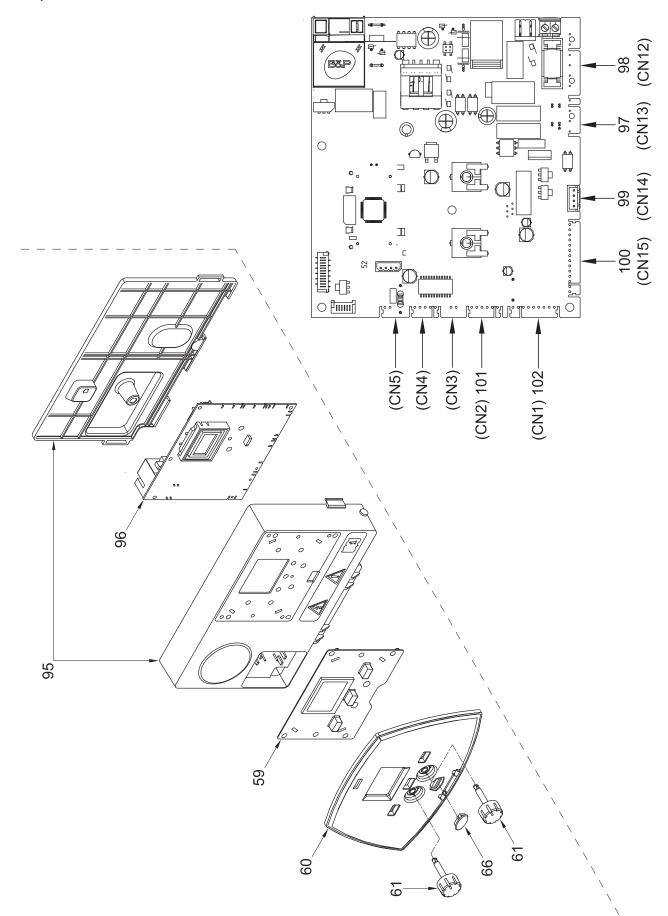


Exchanger / Combustion



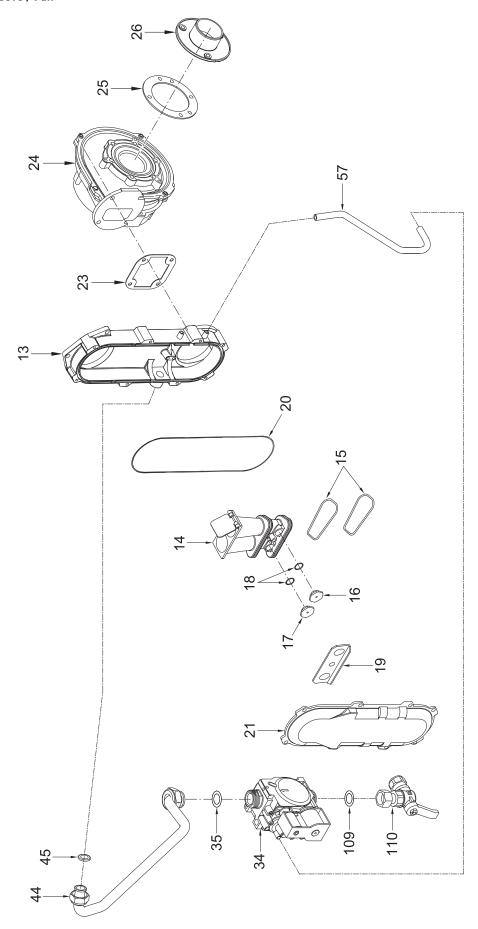


Control panel





Gas valve / Oversleeve / Fan





Edea 30

001 6278971 Heat exchanger gas-water C 002 6326953 Sealing C 003 6326951 Rear insulation + springs C 004 6248876 Smoke outlet gasket ø80 mm C 005 6277130 Probe NTC D.4X40 A 006 6291162 Upper protection shield 007 6278706 Smoke chamber 008 6248855 P.C. inlet/outlet smokes gasket C 009 5188364 Main exchanger door 010 6211794 Peephole kit + gasket C 011 62269034 Insulation C 012 8076126 Burner + gasket kit C 013 62788133 Air-gas hose lower side C 014 5200301 Air-gas hose lower side C 015 6226470 ORing 52,07 x 2,62 C C 016 6322333 Round nozzle Ø 4,00 C C 017 6322353 Hexagonal nozzle Ø 4,00 C<	Pos.	Code	Description	Advised parts
003 6326951 Rear insulation + springs 004 6248876 Smoke outlet gasket ø80 mm C 005 6277130 Probe NTC D.4X40 A 006 62791162 Upper protection shield 007 6278706 Smoke chamber 008 6248855 P.C. inlet/outlet smokes gasket C 009 5188364 Main exchanger door 010 62117794 Peephole kit + gasket C 011 6269034 Insulation 012 8076126 Burner + gasket kit C 013 6278813 Air-gas hose lower side 014 5200301 Air/gas miser assembly 015 6226403 Oring 52,07 x 2,62 C 016 6322303 Round nozzle Ø 4,00 018 6226403 O-ring 2031 C 019 6267119 Nozzle locking bracket C 020 6226403 O-ring Ø 183,83x2,62 C 021 6278109 Ignit-ionis.electrode +gasket B	001	6278971	Heat exchanger gas-water	С
004 6248876 Smoke outlet gasket ø80 mm C 005 6277130 Probe NTC D.4X40 A 006 6291162 Upper protection shield 007 6278706 Smoke chamber 008 6248855 P.C. inlet/outlet smokes gasket C 009 5188364 Main exchanger door 010 6211794 Peephole kit + gasket C 011 6229034 Insulation C 012 8076126 Burner + gasket kit C 013 6278813 Air-gas hose tower side C 014 5200301 Air/gas mixer assembly C 015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 O 017 6322353 Hexagonal nozzle Ø 4,00 O 018 6226403 O-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side 022 628142 Air-gas hose upper side 023 6174816	002	6326953	Sealing	С
005 6277130 Probe NTC D.4X40 A 006 6291162 Upper protection shield 007 6278706 Smoke chamber 008 6248855 P.C. inlet/oulet smokes gasket C 009 5188364 Main exchanger door 010 6211774 Peephole kit + gasket C 011 6269034 Insulation C 011 6269034 Insulation C 013 6278813 Air-gas hose lower side C 014 5200301 Air/gas mixer assembly C 015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 C 017 6322333 Hexagonal nozzle Ø 4,00 C 018 6226403 O-ring 2031 C C 019 6226403 O-ring 2031 C C 020 6226455 O-ring Ø 183,83x2,62 C C 021 6278812 Air-gas hose upper side C <td>003</td> <td>6326951</td> <td>Rear insulation + springs</td> <td></td>	003	6326951	Rear insulation + springs	
006 6291162 Upper protection shield 007 6278706 Smoke chamber 008 6248855 P.C. inlet/oulet smokes gasket C 009 5188364 Main exchanger door 010 6211794 Peephole kit + gasket C 011 6269034 Insulation C 012 8076126 Burner + gasket kit C 013 6278813 Air-gas hose lower side C 014 5200301 Air/gas mixer assembly C 015 6226470 ORing 52,07 x 2,62 C C 016 6322303 Round nozzle Ø 3,50 C 017 6322353 Hexagonal nozzle Ø 4,00 C 018 6226403 O-ring Ø 183,83x2,62 C C 020 6226455 O-ring Ø 183,83x2,62 C C 021 6278169 Hyor gas hose upper side D C 022 628169 Ignitionis.electrode +gasket B 023 6174816	004	6248876	Smoke outlet gasket ø80 mm	С
007 6278706 Smoke chamber 008 6248855 P.C. inlet/oulet smokes gasket C 009 5188364 Main exchanger door C 011 6269034 Insulation C 011 6269034 Insulation C 011 6269034 Insulation C 012 8076126 Burner + gasket kit C 013 6278813 Air-gas hose lower side 014 5200301 Air/gas mixer assembly 015 6228470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 O-ring 2031 C 019 6226119 Nozzle locking bracket C 020 6226453 O-ring Ø 183,83x2,62 C 021 6278119 Nozzle locking bracket B 020 6226455 O-ring Ø 183,83x2,62 C 021 6278116 Gasket for fan flange	005	6277130	Probe NTC D.4X40	А
008 6248855 P.C. inlet/oulet smokes gasket C 009 5188364 Main exchanger door 010 6211774 Peephole kit + gasket C 011 6269034 Insulation C 012 8076126 Burner + gasket kit C 013 6278813 Air-gas hose lower side C 014 5200301 Air/gas mixer assembly C 015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 O 017 6322353 Hexagonal nozzle Ø 4,00 O 018 6226403 O-ring 2031 C 019 6267119 Nozzle locking bracket O 020 6226465 O-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side 022 6281609 Ignitionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6261412 Fan A	006	6291162	Upper protection shield	
009 5188364 Main exchanger door 010 6211794 Peephole kit + gasket C 011 6269034 Insulation C 012 8076126 Burner + gasket kit C 013 6278813 Air-gas hose lower side C 014 5200301 Air/gas mixer assembly C 015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 O-ring 2031 C 019 6267119 Nozzle locking bracket C 020 6226465 O-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side C 022 6281609 Ignitionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6261412 Fan A 025 6028703 Gasket for duct flange C 027 <t< td=""><td>007</td><td>6278706</td><td>Smoke chamber</td><td></td></t<>	007	6278706	Smoke chamber	
010 6211794 Peephole kit + gasket C 011 6269034 Insulation 012 8076126 Burner + gasket kit C 013 6278813 Air-gas hose lower side 014 5200301 Air/gas mixer assembly 015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 O-ring 2031 C 019 6267119 Nozzle locking bracket O 020 6226465 O-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side O 022 628169 Ignit-ionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6261412 Fan A 025 6028703 Gasket for duct flange C 027 6273608 Water pressure transducer A 028 6226639 Spring	008	6248855	P.C. inlet/oulet smokes gasket	С
011 6269034 Insulation 012 8076126 Burner + gasket kit C 013 6278813 Air-gas hose lower side 014 5200301 Air/gas mixer assembly 015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 O-ring 2031 C 019 6267119 Nozzle locking bracket 020 6226465 O-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side 022 6281609 Ignit-ionis.electrode +gasket B 021 6278812 Air-gas hose upper side C 022 6281609 Ignit-ionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6281412 Fan A 025 6028703 Gasket for duct flange C 026 6083056 Duct flange C	009	5188364	Main exchanger door	
012 8076126 Burner + gasket kit C 013 6278813 Air-gas hose lower side 014 5200301 Air/gas mixer assembly 015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 O-ring 2031 C 019 6267119 Nozzle locking bracket C 020 6226465 O-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side 022 6281609 Ignitionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6261412 Fan A 025 6028703 Gasket for duct flange C 027 6273608 Water pressure transducer A 028 6226439 Spring clip C 029 6226476 ORing diam.15x2 C 030 6017405 Flexible p	010	6211794	Peephole kit + gasket	С
013 6278813 Air-gas hose lower side 014 5200301 Air/gas mixer assembly 015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 O-ring 2031 C 019 6267119 Nozzle locking bracket C 020 6226465 O-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side 022 6281609 Ignitionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6261412 Fan A 025 6028703 Gasket for duct flange C 026 6083056 Duct flange 50 Duct flange 50 027 6273608 Water pressure transducer A 028 6226439 Spring clip C 029 6226476 ORing diam.15x2 C 030 6017405 Fl	011	6269034	Insulation	
014 5200301 Air/gas mixer assembly 015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 O-ring 2031 C 019 6267119 Nozzle locking bracket 020 6226465 O-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side 022 6281609 Ignitionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6261412 Fan A 025 6028703 Gasket for duct flange C 026 6083056 Duct flange 50 Duct flange 50 027 6273608 Water pressure transducer A 028 6226639 Spring clip C 039 6017405 Flexible pipe M.F. 3/8" L=300 031 6226643 Pipe fixing spring B 032 6281714 Hydrometer +	012	8076126	Burner + gasket kit	С
015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 0-ring 2031 C 019 6267119 Nozzle locking bracket 020 6226465 0-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side 022 6281609 Ignitionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6281412 Fan A 025 6028703 Gasket for duct flange C 026 6083056 Duct flange 50 Duct flange 50 027 6273608 Water pressure transducer A 028 6226639 Spring clip C 029 6226476 ORing diam.15x2 C 030 6017405 Flexible pipe M.F. 3/8" L=300 031 6226643 Pipe fixing spring 032 6281716 Hydrometer + spring	013	6278813	Air-gas hose lower side	
015 6226470 ORing 52,07 x 2,62 C 016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 0-ring 2031 C 019 6267119 Nozzle locking bracket 020 6226465 0-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side 022 6281609 Ignitionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6281412 Fan A 025 6028703 Gasket for duct flange C 026 6083056 Duct flange 50 Duct flange 50 027 6273608 Water pressure transducer A 028 6226639 Spring clip C 029 6226476 ORing diam.15x2 C 030 6017405 Flexible pipe M.F. 3/8" L=300 031 6226643 Pipe fixing spring 032 6281716 Hydrometer + spring	014	5200301		
016 6322303 Round nozzle Ø 3,50 017 6322353 Hexagonal nozzle Ø 4,00 018 6226403 0-ring 2031 C 019 6267119 Nozzle locking bracket C 020 6226465 0-ring Ø 183,83x2,62 C 021 6278812 Air-gas hose upper side C 022 6281609 Ignitionis.electrode +gasket B 023 6174816 Gasket for fan flange C 024 6261412 Fan A 025 6028703 Gasket for duct flange C 026 6083056 Duct flange 50 Duct flange 50 027 6273608 Water pressure transducer A 028 6226439 Spring clip C 029 6226476 ORing diam.15x2 C 030 6017405 Flexible pipe M.F. 3/8" L=300 031 6226643 Pipe fixing spring 032 6281716 Hydrometer + spring B 033 203022	015	6226470	 	С
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000 0201072 Terriperature serisor A				
054 6001182 Air intake superior pipe ø55			-	А

Pos.	Code	Description	Advised parts
055	2051252	Hose clamp Ø 53-57	
056	6001183	Air intake inferior pipe ø55	
057	1010209	Silicon pipe Ø 8x1.5 L=0,3 m	
058	6188883	Noise reduction pipe	
059	6329900	Rubber button	С
060	6329800	Interface panel	
061	6290170	Knob Ø 20	
062	6304480	casing left/right side panel	
063	6304251	Casing front panel	
064	6281730	Door for front panel	
065	6299760	Frame for front panel	
066	6329960	Rubber cap	
067	6028665	Smoke exhaust diaphragm	
068	6226757	Plug for noise reduction	
070	6265866	C.H. flow manifold	С
071	6265832	C.H. return manifold	С
072	6319692	Kit 16 plate heat exchanger + o	С
073	6226475	ORing diam.18,64x3,53	С
074	6222003	D.H.W. filter	С
075	6131440	Flowmeter sensor	В
076	6040225	Pressure relief valve 1/2" 3 ba	С
077	6281519	Plunged sensor + gasket	А
078	6226645	Spring clip	
079	6120560	Pump nipple 3/4"	
080	6226475	ORing diam.18,64x3,53	С
081	6330401	Modulating circulating pump	В
082	6226644	Spring clip for rotating connec	
083	6087332	Motor for diverting valve	В
084	6226636	D.H.W. elektrovalve fix.spring	
085	6226638	Divertor valve motor spring cli	
086	6319644	Flowmeter group	В
087	6319645	Three-way plates group	В
088	6319647	Circulateur top cover	
089	6013182	Automatic air vent	С
091	6157660	Pressure relief valve drain pip	
095	6304720	Control panel	
096	6324982	Main P.C.B	А
097	6329610	4 pole cable connector CN13	В
098	6329477	6 pole cable connector CN12	В
099	6329611	4 pole cable connector CN14	В
100	6325811	14 pole cable connector CN15	В
101	6329457	6 pole cable connector CN2	В
102	6325671	9 pole cable connector CN1	В
105	2030227	Gasket Ø 12x18x2	С
106	6177505	Ball cock 3/4" x 22	C
107	6177506	Ball cock 1/2" x 15	C
108	6142330	Quarter bend 1/2" x 15	C
109	2030249	Gasket Ø 24x17x3	C
110	6177530	Gas cock 3/4" F x 15	
111	6281442	Water rate adjuster 14 l/min	С
700	5202587	Complete control panel	A
701	5185154	L.P.G. conversion kit	
702	5185161	Conversion kit for natural gas	
703	5184817	Fitting cocks kit	С
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A Spare parts for minimum fittings

A+B Spare parts for basic safety fittings

A+B+C Spare parts for extended safety fittings



Edea 40

Pos.	Code	Description	Advised parts
001	6278972	Heat exchanger gas-water	С
002	6326953	Sealing	С
003	6326951	Rear insulation + springs	
004	6248876	Smoke outlet gasket ø80 mm	С
005	6277130	Probe NTC D.4X40	А
006	6291162	Upper protection shield	
007	6278706	Smoke chamber	
800	6248855	P.C. inlet/oulet smokes gasket	С
009	5188364	Main exchanger door	
010	6211794	Peephole kit + gasket	С
011	6269034	Insulation	
012	8076127	Burner + gasket kit	С
013	6278813	Air-gas hose lower side	
014	5200312	Air/gas mixer assembly	
015	6226470	ORing 52,07 x 2,62	С
016	6322305	Round nozzle Ø 4,0	
017	6322355	Hexagonal nozzle Ø 4,50	
018	6226403	0-ring 2031	С
019	6267119	Nozzle locking bracket	
020	6226465	O-ring Ø 183,83x2,62	С
021	6278812	Air-gas hose upper side	
022	6281609	Ignitionis.electrode +gasket	В
023	6174816	Gasket for fan flange	C
024	6261405	Fan	A
025	6028703	Gasket for duct flange	C
026	6083056	Duct flange 50	
027	6273608	Water pressure transducer	Α
028	6226639	Spring clip	
029	6226476	ORing diam.15x2	С
030	6017405	Flexible pipe M.F. 3/8" L=300	
031	6226643	Pipe fixing spring	
032	6281716	Hydrometer + spring	В
033	2030226	Gasket Ø 10,2x14,8x2	C
034	6243840	Gas valve	A
035	2030228	Gasket Ø 17x24x2	C
036	6277211	Water trap	C
037	5171635	Cap + gasket for water trap kit	C
038	1010215	Rubber pipe dia. 15x2,5 L=0,5 m	
039	2051120	Clamp diam. 17,3	
040	5183730	Rectang. expansion vessel L.10	С
041	6034155	Condensate drainage pipe	
041	2051122	Clamp	
042	2051122	Clamp diam.	
043	6277479	Pipe connecting gas valve	
045	2030255	Gasket Ø 12,5x18,5x3	С
045	6227561	Flow pipe	U
047	6226412	0-ring 3068	С
047	6226619	Spring for heat exchanger conne	U
049	6226601		
050	6227548	Spring for heat exchanger conne Return pipe from C.H. system	
050			С
052	2030267 6146729	Piracriten gasket Ø 30x17x2	
		100¢C safety stat	A
053	6231372	Temperature sensor	A
054	6001182	Air intake superior pipe ø55	

Pos.	Code	Description	Advised parts
055	2051252	Hose clamp Ø 53-57	
056	6001183	Air intake inferior pipe ø55	
057	1010209	Silicon pipe Ø 8x1.5	
058	6188883	Noise reduction pipe	
059	6329900	Rubber button	С
060	6329800	Interface panel	
061	6290170	Knob Ø 20	
062	6304480	casing left/right side panel	
063	6304251	Casing front panel	
064	6281730	Door for front panel	
065	6299760	Frame for front panel	
066	6329960	Rubber cap	
067	6028665	Smoke exhaust diaphragm	
068	6226757	Plug for noise reduction	
070	6265866	C.H. flow manifold	С
071	6265834	C.H. return manifold	C
071	6319692	Kit 16 plate heat exchanger + o	C
072	6226475	· · · · · · · · · · · · · · · · · · ·	C
073	6222003	ORing diam.18,64x3,53 D.H.W. filter	C
	6131440		
075		Flowmeter sensor	В
076	6040225	Pressure relief valve 1/2" 3 ba	C
077	6281519	Plunged sensor + gasket	A
078	6226645	Spring clip	
079	6120560	Pump nipple 3/4"	
080	6226475	ORing diam.18,64x3,53	С
081	6330401	Modulating circulating pump	В
082	6226644	Spring clip for rotating connec	
083	6087332	Motor for diverting valve	В
084	6226636	D.H.W. elektrovalve fix.spring	
085	6226638	Divertor valve motor spring cli	
086	6319644	Flowmeter group	В
087	6319645	Three-way plates group	В
088	6319647	Circulateur top cover	
089	6013182	Automatic air vent	С
091	6157660	Pressure relief valve drain pip	
095	6304720	Control panel	
096	6324982	Main P.C.B	Α
097	6329610	4 pole cable connector CN13	В
098	6329477	6 pole cable connector CN12	В
099	6329611	4 pole cable connector CN14	В
100	6325811	14 pole cable connector CN15	В
101	6329457	6 pole cable connector CN2	В
102	6325671	9 pole cable connector CN1	В
105	2030227	Gasket Ø 12x18x2	С
106	6177505	Ball cock 3/4" x 22	С
107	6177506	Ball cock 1/2" x 15	С
108	6142330	Quarter bend 1/2" x 15	C
109	2030249	Gasket Ø 24x17x3	C
110	6177530	Gas cock 3/4" F x 15	
111	6281444	Water rate adjuster 18 l/min	С
700	5202587	Complete control panel	A
700	5185156	L.P.G. conversion kit	A
701	5185163		
		Conversion kit for natural gas	
703	5184817	Fitting cocks kit	С

A Spare parts for minimum fittings

A+B Spare parts for basic safety fittings

A+B+C Spare parts for extended safety fittings



10 APPENDIX 1 (GUIDANCE HHIC)

Manufacturers Instructions

Manufacturer's instructions must be followed for the correct connection of the condensate discharge pipe from the boiler as this may vary due to the design of the boiler. For example a visible air break and trap is not required if there is a trap with a minimum condensate seal of 75 mm incorporated into the boiler.

Internal Pipe Run In Unheated Spaces

Condensate discharge pipes that are routed in an unheated space such as a loft or garage should be insulated to prevent freezing.

Internal Condensate Pipe Discharge Termination

Internal condensate discharge pipework must be a minimum of 19mm ID (typically 22mm OD) plastic pipe or as per manufacturer's instructions and this should "fall" a minimum of 45mm per metre away from the boiler, taking the shortest practicable route to the termination point.

(45mm as per BS6798, 52mm per metre as per industry practice is specified in the following diagrams)

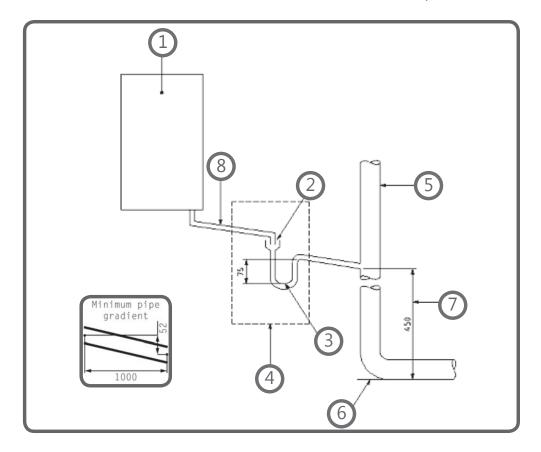
To minimise the risk of freezing during prolonged sub-zero conditions, an internal "gravity discharge point" such as an internal soil stack (preferred method), internal kitchen, utility room or bathroom waste pipe e.g. from a sink, basin, bath or shower should be adopted, where possible.

Note - A suitable permanent connection to the foul waste pipe should be used. Figures 1, 2(a), 2(b) show appropriate connection methods.





Figure 1 – Connection of condensate discharge pipe to internal soil and vent stack. Note – Check manufacturer's instructions to see if an air break is required.



Key

- 1 Boiler
- 2 Visible air break
- 3 75 mm trap
- 4 Visible air break and trap not required if there is a trap with a minimum condensate seal of 75 mm incorporated into the boiler
- 5 Soil and vent stack
- 6 Invert
- 7 450 mm minimum up to three storeys
- 8 Minimum internal diameter 19 mm

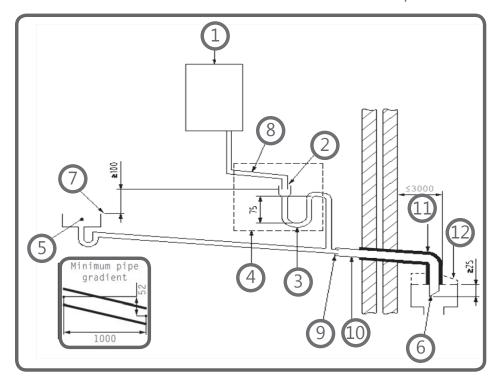


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Figure 2(a) – Connection of a condensate discharge pipe downstream of a sink, basin, bath or shower waste trap.

Note – Check manufacturer's instructions to see if an air break is required.



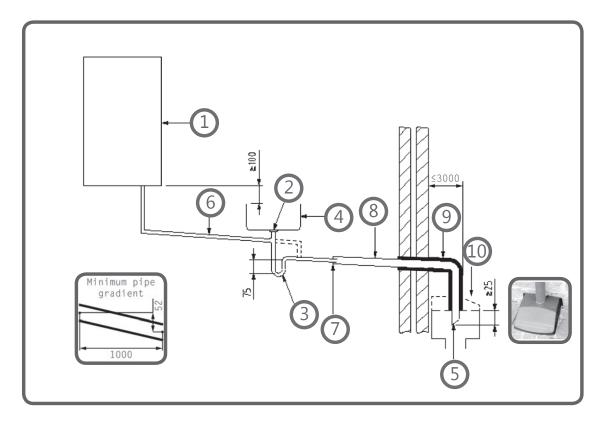
Key

- 1 Boiler
- 2 Visible air break
- 3 75 mm trap
- 4 Visible air break and trap not required if there is a trap with a minimum condensate seal of 75 mm incorporated into the boiler. In this case the 100 mm is measured to the trap in the boiler.
- 5 Sink, basin, bath or shower
- 6 Open end of condensate discharge pipe direct into gully 25 mm min below grating but above water level; end cut at 45 °
 - Note the maximum external condensate discharge length is 3 metres
- 7 Sink lip
- 8 Minimum internal diameter 19 mm
- 9 Pipe size transition
- 10 Minimum internal diameter 30 mm
- 11 Water/weather proof insulation
- 12 Drain cover/leaf quard





Figure 2(b) – Connection of a condensate discharge pipe upstream of a sink, basin, bath or shower waste trap



Key

- 1 Boiler
- 2 Visible air break at plug hole alternative connection can be below sink trap
- 3 75 mm sink, basin, bath or shower waste trap
- 4 Sink, basin, bath or shower with integral overflow
- 5 Open end of condensate discharge pipe direct into gully 25 mm min below grating but above water level; end cut at 45 °

Note – the maximum external condensate discharge length is 3 metres

- 6 Minimum internal diameter 19 mm
- 7 Pipe size transition
- 8 Minimum internal diameter 30 mm
- 9 Water/weather proof insulation
- 10 Fit drain cover/leaf guard



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The possibility of waste pipes freezing downstream of the connection point should be considered when determining a suitable connection point - e.g. a slightly longer pipe run to an internal soil stack may be preferable to a shorter run connecting into a kitchen waste pipe discharging directly through the wall to an external drain.

Note - Where "gravity discharge" to an internal termination is not physically possible (e.g. the discharge point is above the appliance location, or access is obstructed by a doorway), or where very long internal pipe runs would be required to reach a suitable discharge point, then a condensate pump should be used.

External waste pipes from kitchens, utility rooms or bathrooms such as sink, basin, and bath or shower waste outlets should be insulated with waterproof UV resistant, class 0 material, terminated below the grid but above the water line and a drain/leaf guard fitted. The waste pipe should be cut at 45 degrees where it terminates into the grid. (See insulation section for guidance on suitable materials).

Condensate Pumps

Use of a Condensate Pump to an Internal Termination

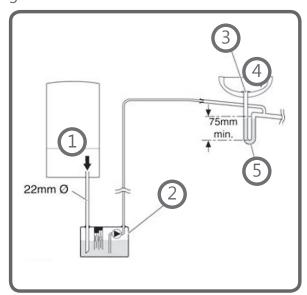
Condensate can be removed using a proprietary condensate pump, of a specification recommended by the boiler or pump manufacturer. In order to minimise the risk of freezing during prolonged sub-zero spells, one of the following methods internal to the property for terminating the boiler condensate pump to a foul water discharge point should be adopted such as an internal soil stack (preferred method), internal kitchen, utility room or bathroom waste pipe such as sink, basin, and bath or shower waste. Figure 3 shows a typical connection method.





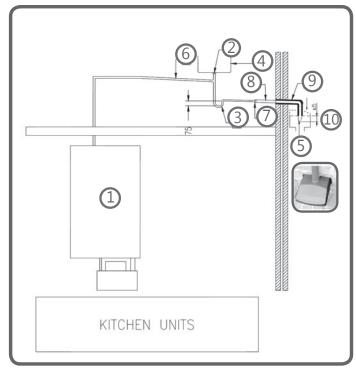
Figure 3 – Connection of a condensate pump - typical method (NB manufacturer's detailed instructions should be followed).

Note – Any external pipe work should be insulated, pipe cut at 45 degrees and a drain/leaf guard fitted.



Key

- 1 Condensate discharge from boiler
- 2 Condensate pump
- 3 Visible air break at plug hole
- 4 Sink or basin with integrated overflow
- 5 75mm sink waste trap



Key

- 1 Boiler
- 2 Visible air break at plug hole
- 3 75 mm sink, basin, bath or shower waste trap
- 4 Sink, basin, bath or shower with integral overflow
- 5 Open end of condensate discharge pipe direct into gully 25 mm min below grating but above water level; end cut at 45 ° Note the maximum external condensate discharge length is 3 metres
- 6 Minimum internal diameter 19 mm
- 7 Pipe size transition
- 8 Minimum internal diameter 30 mm
- 9 Water/weather proof insulation
- 10 Fit drain cover/leaf guard





External Connections

Only fit an external boiler condensate drain connection if an internal gravity or pumped connection is **impractical** to install.

The pipe work from the boiler should be of a minimum 19mm ID or as per manufacturer's instructions and the condensate discharge pipe shall be run in a standard drainpipe material, e.g. poly (vinyl chloride) (PVC), un-plasticized poly (vinyl chloride) (PVC-U), acrylonitrile butadiene-styrene (ABS), polypropylene (PP) or chlorinated poly (vinyl chloride) (PVC-C).

Note - Fixing centres for brackets should be a maximum of 300mm for flexible pipe and 500mm for solid pipe and manufacturer's recommendations should be followed.

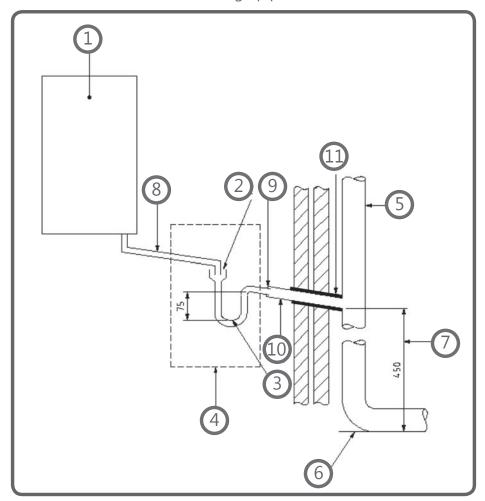
The condensate pipe should be run internally as far as possible before going externally and the pipe diameter should be increased to a minimum of 30mm ID (typically 32mm OD) before it passes through the wall. The angle of the pipe should slope downwards by at least 3 degrees as it passes through the wall to assist in maintaining a good velocity as the condensate exits the building.

The external pipe run should be kept as short as possible to a maximum of 3 metres, taking the most direct and "most vertical" route to the discharge point, with no horizontal sections in which condensate might collect.





Figure 4 – Connection of condensate discharge pipe to external soil and vent stack



Key

- 1 Boiler
- 2 Visible air break
- 3 75 mm trap
- 4 Visible air break and trap not required if there is a trap with a minimum condensate seal of 75mm incorporated into the boiler.
- 5 Soil and vent stack
- 6 Invert
- 7 450mm minimum upto three storeys
- 8 Minimum internal diameter 19 mm
- 9 Pipe size transition point
- 10 Minimum internal diameter 30mm
- 11 Water/weather proof insulation



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Alternative Solutions

Cold weather protection methods approved or endorsed by boiler manufacturers and/or service organisations may be adopted if these are considered suitable by the parties involved. It is the responsibility of the manufacturer of these products to ensure they have completed the necessary testing or calculations to ensure the product offers suitable protection to prevent the condensate pipe from freezing. The product manufacturer should provide information as to what level of external temperature and for what time period the product can protect against sub-zero temperatures, i.e. -15°C for 48 hours. BS6798 refers to devices that pump the condensate produced by a condensing boiler to a fine misting nozzle in the boiler flue terminal so that the condensate is discharged with the hot flue gas. (BS6798 section 6.3.8 note 4). The boiler manufacturer's instructions will provide advice regarding fitting and siting of the flue terminal to ensure safe disposal of the condensate.

Additional Measures

At least one of the following measures should be fitted in addition to the measures detailed above for external condensate discharge pipes

- Insulate external pipe with a minimum thickness of insulation to be 19mm "O" class PVC coated material.
- Fit trace heating with insulation as recommended by manufacturer.
- Fit internal auxiliary(additional) high volume syphon unit

Auxiliary Syphon – Fitted Internally

Auxiliary siphons fitted inside the premises assist with the siting of the boiler where an external condensate pipe **must** be fitted. The storage capacity of the auxiliary siphon increases the volume of condensate discharge reducing the risk of freezing. A further reduction in the potential for the pipe to freeze is achieved when combined with the external insulation requirements.





Electric Trace Heating

Trace heating with an external thermostat can be fitted to the external condensate pipe to raise the temperature of the condensate pipe in freezing conditions. Trace heating takes the form of an electrical heating element run in physical contact along the length of the condensate pipe. The pipe is usually covered with thermal insulation to retain heat losses from the pipe. Heat generated by the element then maintains the temperature of the pipe. If such a system is used then the installation instructions of the trace heating manufacturer and any specific recommendations regarding pipe diameter, insulation, etc. should be followed. All other relevant guidance on condensate discharge pipe installation should also be followed.

Insulation Materials

Insulation used for external condensate pipes, sink or washing machine waste pipes should be of class 'O' grade with an outer coating that is weather proof, bird/animal proof, and UV resistant finish. A minimum of 19mm thick insulation is recommended for 32mm external pipes.

Use of Air Breaks In Condensate Discharge Pipes

Heating engineers should follow manufacturer's instructions on the use of air breaks in condensate discharge pipes. A visible air break is not required if the boiler condensate trap has a minimum condensate seal of 75mm incorporated into the boiler.

Connecting to a rain water downpipe/External Soil Stack

When an external soil stack or rain water downpipe is used as the termination (NB only permissible if this downpipe passes to a combined foul and rainwater drainage system) an external air break must be installed between the condensate discharge pipe and the downpipe to avoid reverse flow of rainwater/sewage into the boiler should the downpipe itself become flooded or frozen.

Figure 5 shows a suitable connection method. Pipe insulation should be fitted.

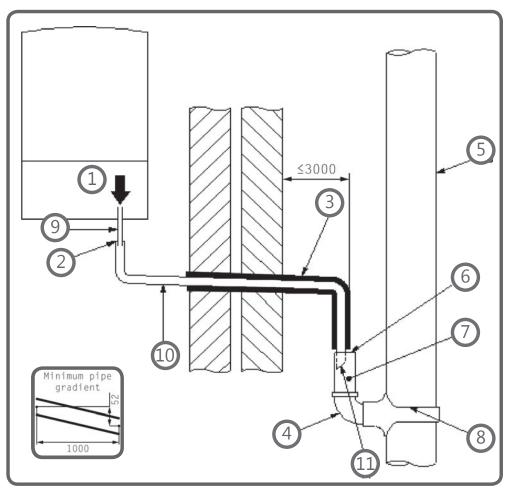


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Figure 5 – External termination to rainwater downpipe (NB only combined foul/rainwater

drain)



Key

- 1 Condensate discharge pipe from boiler
- 2 Pipe size transition point
- 3 Water/weather proof insulation
- 4 43mm 90° male/female bend
- 5 External rain water pipe into foul water
- 6 External air break
- 7 Air gap
- 8 68mm PVCu strap on fitting
- 9 Minimum internal diameter 19mm
- 10 Minimum internal diameter 30mm
- 11 End cut at 45°





External Termination of the Condensate Pipe

Where the condensate discharge pipe is terminated over an open foul drain or gully, the pipe should terminate below the grating level, but above water level, in order to minimise "wind chill" at the open end. Pipe drainage and resistance to freezing will be improved if the termination end of the condensate pipe is cut at 45 degrees as opposed to a straight cut.

The use of a drain cover (such as those used to prevent blockage by leaves) **must** be fitted to offer further protection from wind chill. Figure 6 (following page)shows a suitable connection method. Where the condensate drain pipe terminates in a purpose-designed soakaway (see BS 6798:2014 or boiler installation manual for soakaway design requirements) any above-ground section of condensate discharge pipe should be run and insulated as described above. Figure 7 (following page) shows a suitable connection method.

Unheated Areas in Buildings

Internal condensate drainage pipes run in unheated areas such as lofts, basements and garages should be treated as external connections and insulated accordingly. Weather proof materials may not be necessary and should be assessed by the heating engineer.

Use of Air Breaks In Condensate Discharge Pipes

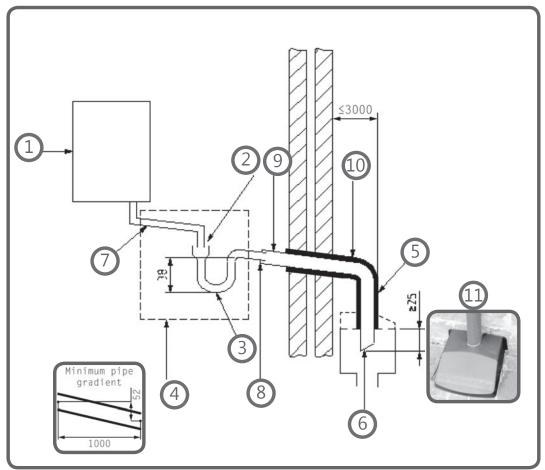
Installers should follow the manufacturer's instructions on the use of air breaks in condensate discharge pipes. A visible air break and trap is not required if the boiler condensate trap has a minimum condensate seal of 75 mm incorporated into the boiler.



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Figure 6 – External drain, gully or rainwater hopper



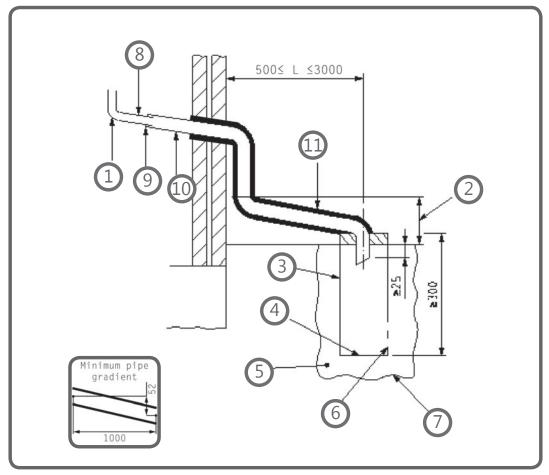
Key

- 1 Boiler
- 2 Visible air break
- 3 38mm minimum trap
- 4 Visible air break and trap not required if there is a trap with a minimum condensate seal of 38 mm incorporated into the boiler refer to manufacturers instructions
- 5 External length of pipe 3 m maximum
- 6 Open end of condensate discharge pipe direct into gully 25 mm min below grating but above water level; end cut at 45 °
- 7 Minimum internal diameter 19 mm
- 8 Pipe size transition point
- 9 Minimum internal diameter 30 mm
- 10 Water/weather proof insulation
- 11 Fit drain cover/leaf guard





Figure 7 – Example of a purpose made soakaway



Key

- 1 Condensate discharge pipe from boiler
- 2 Ground (this section of the condensate discharge pipe may be run either above or below round level); End cut at 45°
- 3 Diameter 100 mm minimum plastic tube
- 4 Bottom of tube sealed
- 5 Limestone chippings
- 6 Two rows of three 12 mm holes at 25 mm centres, 50 mm from bottom of tube and facing away from house
- 7 Hole depth 400 mm minimum by 300 mm diameter
- 8 Minimum internal diameter 19 mm
- 9 Pipe size transition point
- 10 Minimum internal diameter 30 mm
- 11 Water/weather proof insulation



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11 APPENDIX 2

FLOWCHART FOR CO AND COMBUSTION RATIO CHECK ON COMMISSIONING A CONDENSING BOILER

PRIOR TO CO AND COMBUSTION RATIO CHECK

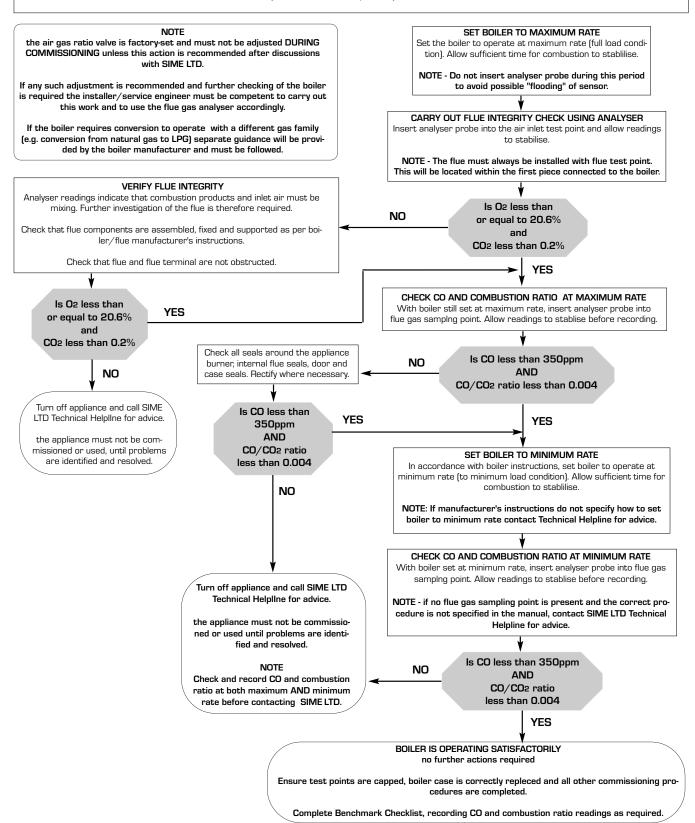
The installation instructions should have been followed, gas type verified and gas supply pressure/rate checked as required prior to commissioning.

As part of the installation process, **ESPECIALLY WHERE A FLUE HAS BEEN FITTED BY PERSONS OTHER THAN THE BOILER INSTALLER**, visually check the integrity of the whole flue system to confirm that all components are correctly asembled, fixed and supported. Check that manufacturer's maximum flue lengths have not been exceeded and all guidance has been followed (e.g. Gas Safe Technical Bulletin TB008).

The flue gas analyser should be of the correct type, as specified by BS 7967

Prior to its use, the flue gas analyser should have been maintained and calibrated as specified by the manufacturer. The installer must have the relevant competence for use of the analyser.

Check and zero the analyser IN FRESH AIR as per analyser manufacturer's instructions.





12 PRODUCT DATA SHEET

Simo	e °	
EDEA	30	40
D.H.W load profile declared	XL	XXL
C.H. energy efficiency class	A	A
D.H.W. energy efficiency class	A	A
Heat output (kW)	25	34
C.H. annual energy consumption (GJ)	42	60
D.H.W. annual combustible consumption (GJ)	17	22
C.H. seasonal energy efficiency (%)	93	93
D.H.W. energy efficiency (%)	86	86
Sound power dB(A)	55	56

Specific precautionary measures to be adopted at the time of assembly, installation or maintenance of the equipment are contained in the boiler instruction manual

Conforming to Annex IV (item 2) of the Delegated Regulations (EU) No. 811/2013 which supplements Directive 2010/30/EU



Information requirements for boiler space	e heaters,	boiler com	bination	heaters						
Model(s):	EDEA 30									
Condensing boiler:	Yes									
Low-temperature boiler:	Yes									
B11 boiler:	No									
Cogeneration space heater:	No			Equipped with a supplementary heater:		No				
Combination heater:	Yes									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Nominal heat output for space heating	P _n	25	kW	Seasonal space heating energy efficiency	ηs	93	%			
For boiler space heaters and boiler combinuseful heat output	nation heat	ers:		For boiler space heaters and boiler combination heaters: useful efficiency						
At nominal heat output and high- temperature regime ^a	P ₄	24,5	kW	At nominal heat output and high- temperature regime (*)	η4	87,9	%			
At 30% of nominal heat output and low-temperature regime ^b	P ₁	8,2	kW	At 30% of nominal heat output and low-temperature regime (*)	η1	97,8	%			
Auxiliary electricity consumption				Other items						
At full load	el _{max}	0,043	kW	Standby heat loss	Pstby	0,105	kW			
At part load	el _{min}	0,017	kW	Ignition burner power consumption	Pign	0	kW			
In standby mode	PSB	0,004	kW	Emissions of nitrogen oxides	NOx	17	mg/ kWh			
For combination heaters:										
Declared load profile		XL		Water heating energy efficiency	ηwh	86	%			
Daily electricity consumption	Qelec	0,190	kWh	Daily fuel consumption	Qfuel	22,651	kWh			
Contact details	Fonderie Sime S.p.A. Via Garbo 27, 37045 Legnago (VR) ITALIA									

<sup>a. High-temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet.
b. Low-temperature regime means for condensing boilers 30°C, for low-temperature boilers 37°C and for other heaters 50°C return</sup> temperature.

^(*) The yield data have been calculated using the higher heating value.

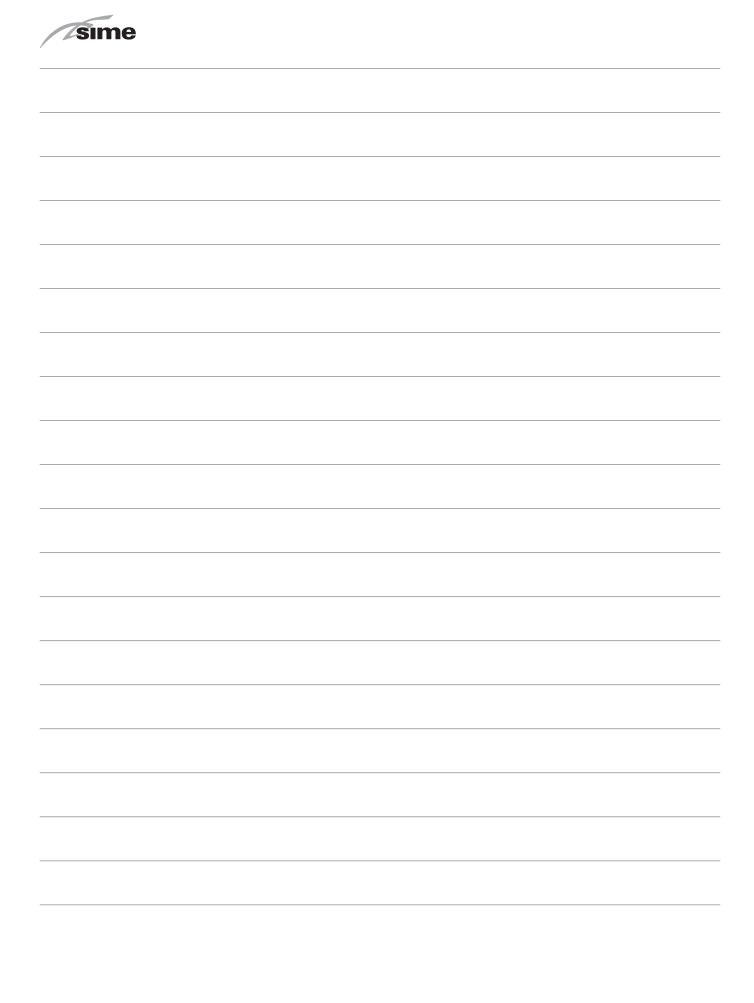


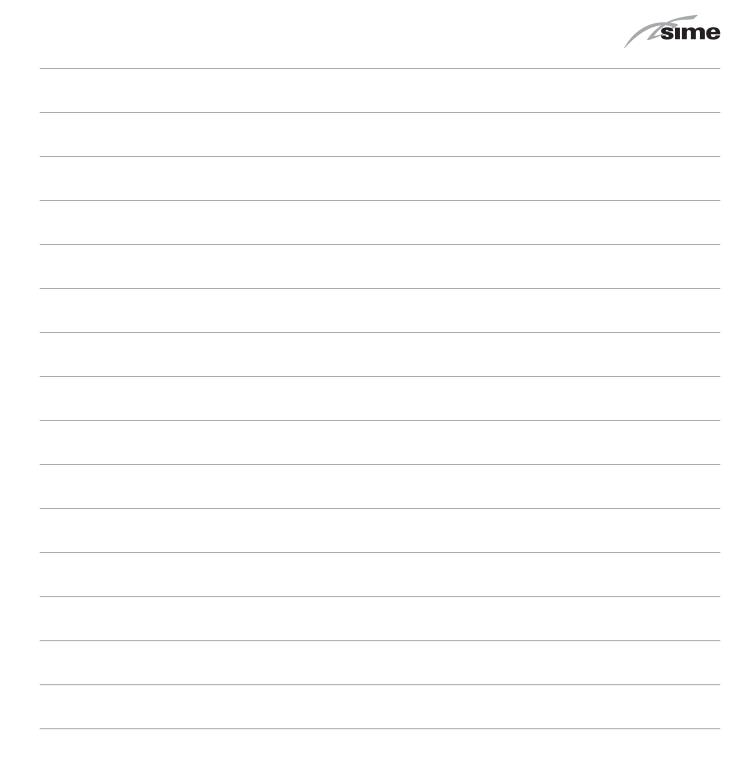
Information requirements for boiler space heaters, boiler combination heaters							
Model(s):	EDEA 40						
Condensing boiler:	Yes						
Low-temperature boiler:	Yes						
B11 boiler:	No						
Cogeneration space heater:	No			Equipped with a supplementary heater:	No		
Combination heater:	Yes						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Nominal heat output for space heating	P _n	34	kW	Seasonal space heating energy efficiency	ηs	93	%
For boiler space heaters and boiler combination heaters: useful heat output				For boiler space heaters and boiler combination heaters: useful efficiency			
At nominal heat output and high- temperature regime ^a	P ₄	34,1	kW	At nominal heat output and high- temperature regime (*)	η4	87,9	%
At 30% of nominal heat output and low-temperature regime ^b	P ₁	11,3	kW	At 30% of nominal heat output and low-temperature regime (*)	η1	97,7	%
Auxiliary electricity consumption				Other items			
At full load	el _{max}	0,063	kW	Standby heat loss	Pstby	0,115	kW
At part load	el _{min}	0,015	kW	Ignition burner power consumption	Pign	0	kW
In standby mode	PSB	0,006	kW	Emissions of nitrogen oxides	NOx	34	mg/ kWh
For combination heaters:							'
Declared load profile	XXL			Water heating energy efficiency	ηwh	86	%
Daily electricity consumption	Qelec	0,220	kWh	Daily fuel consumption	Qfuel	29,034	kWh
Contact details	Fonderie Sime S.p.A. Via Garbo 27, 37045 Legnago (VR) ITALIA						

<sup>a. High-temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet.
b. Low-temperature regime means for condensing boilers 30°C, for low-temperature boilers 37°C and for other heaters 50°C return</sup> temperature.

^[*] The yield data have been calculated using the higher heating value.









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