



Lamborghini
CALORECLIMA

AZIENDA CERTIFICATA ISO 9001



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AL SIG. UTENTE

PLEASE MAKE SURE THAT
THE "USE MANUAL" IS
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DE ENTREGARLE AL USUARIO
EL FOLLETO "MANUAL DE USO"

FAVOR ENTREGAR O
"MANUAL DE USO"
AO SR. UTENTE

CALDAIA MURALE A GAS CON BOLLITORE AD ACCUMULO - ALTO RENDIMENTO - MODULANT
EWALL-HUNG GAS BOILER WITH HOT WATER STORAGE TANK - HIGH EFFICIENCY - MODULATING UNIT
CALDERA MURAL A GAS CON ACUMULADOR - ALTO RENDIMIENTO - MODULANTE
CALDEIRA DE PAREDE A GÁS COM TERMOACUMULADOR - ALTO RENDIMENTO - MODULANTE



Vela X **N 24 MB/IT**

MANUALE DI
INSTALLAZIONE E
MANUTENZIONE

INSTALLATION
AND MAINTENANCE
MANUAL

MANUAL PARA
LA INSTALACIÓN Y EL
MANTENIMIENTO

MANUAL DE
INSTALAÇÃO E
MANUTENÇÃO

ENGLISH

GB

Read carefully all warnings and instructions contained in this manual as they give important instructions regarding safety, installation and maintenance. Keep this manual for future reference. Installation must be carried out by qualified personnel who will be responsible for respecting existing safety regulations.



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Congratulations....

.....on an excellent choice. We thank you for the preference accorded to our products. LAMBORGHINI CALORECLIMA has been actively present in Italy and throughout the world since 1959 with a widespread network of agents and concessionary agents to constantly guarantee the presence of our product on the market. Alongside this is the support of a technical service, "LAMBORGHINI SERVICE", which is entrusted with the qualified servicing of the product.

For the installation and positioning of the boiler:
CAREFULLY OBSERVE THE LOCAL REGULATIONS IN FORCE



GENERAL INSTRUCTIONS

- This booklet constitutes an integral and essential part of the product. Read carefully the instructions contained in this booklet as they provide important directions regarding the safety of installation, use and maintenance. Preserve this booklet with care for any further consultation. The installation of the boiler must be carried out in compliance with current regulations, according to the instructions of the manufacturer and by qualified personnel. An incorrect installation can cause injury or damage to persons, animals and objects, for which the manufacturer cannot be held responsible.
- After removing the packaging materials, check the content integrity. In case of doubt, do not use the unit and contact the supplier. The packaging material (wooden crates, nails, clips, plastic bags, foam, etc.) must not be left within reach of children as they are potential sources of danger.
- This boiler is designed to heat water to a temperature below boiling (atmospheric pressure). It must be connected to a heating system compatible with its performances and output.
- This appliance should be destined only for the use for which it has been expressly envisaged. Any other use is to be considered improper and therefore dangerous. The manufacturer cannot be considered responsible for any damages caused from improper, erroneous or unreasonable use.

ALL INSTALLATION, MAINTENANCE AND GAS CONVERSION OPERATIONS MUST BE CARRIED OUT BY AUTHORISED SKILLED TECHNICIANS.

TO ENSURE THAT BOILER IS INSTALLED CORRECTLY AND THAT IT FUNCTIONS PROPERLY, WE RECOMMEND THAT ONLY LAMBORGHINI ACCESSORIES AND SPARE PARTS BE USED.

ON NOTICING THE SMELL OF GAS DO NOT TOUCH ANY ELECTRIC SWITCH. OPEN DOORS AND WINDOWS. SHUT OFF THE GAS TAPS.

INSTALL THE BOILER ON WALLS WHICH ARE AS WIDE AS OR WIDER THAN THE BOILER ITSELF.



DESCRIPTION

These boilers are fully automatic and gas control is effected by an electronic control unit having the following characteristics:

- continuous modulation mode on both circuits;
- possibility to adjust the heating output;
- possibility to adjust the slow ignition;
- "anti-Legionnaire's" function

They are equipped with:

- Safety flow-switch;
- Total safety thermostat;
- High efficiency flue gas exchanger;
- 60-liter tank in stainless steel for plenty of hot water
- Electric 3-way valve

VELA X N 24 MB W TOP

Electronic ignition with ionisation flame control.

Combustion and fume discharge are of the atmospheric type. Fitted with FLUE CONTROL fume evacuation device.

FLUE CONTROL THERMOSTAT

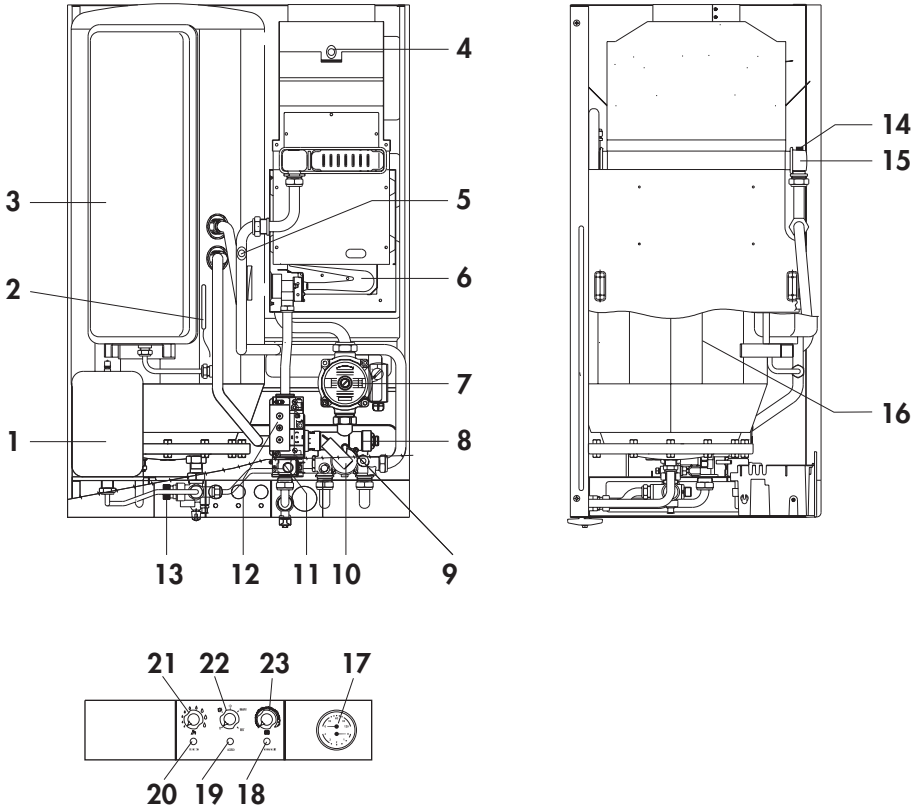
VELA X N MB boilers are fitted with the FLUE CONTROL device to control evacuation of fumes. An increase in fume temperature in the down-draught diverter indicates an anomaly in fume evacuation. The FLUE CONTROL probe in the down-draught diverter detects variations in temperature and shuts down the boiler. Efficient operation of this safety system depends on observance of the following:

- Do not deactivate the FLUE CONTROL thermostat.
- Inspect the boiler and the flue immediately if the FLUE CONTROL device trips frequently.
- If the FLUE CONTROL device is changed make sure you observe assembly and probe positioning instructions carefully and use only **original LAMBORGHINI** spare parts.

If there is a fume evacuation anomaly act quickly to prevent the formation of Carbon Monoxide, a poisonous gas that causes intoxication and potentially fatal harm to both humans and animals.



MAIN COMPONENTS

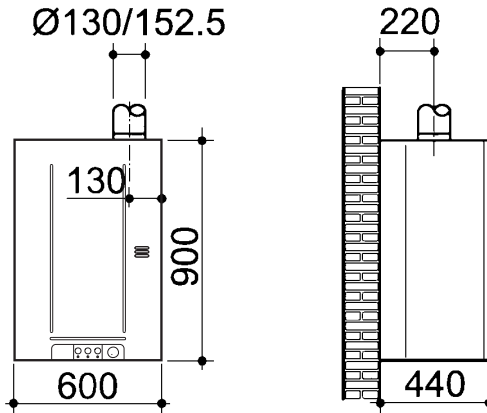


LEGEND

- | | | |
|----------------------------|----------------------------|---------------------------------------|
| 1 Hot water expansion tank | 10 Safety flow-switch | 16 Stainless steel water-heater |
| 2 Water-heater sensor | 11 Modulating coil | 17 Thermohydrometer |
| 3 Heating expansion tank | 12 Gas valve | 18 Malfunction warning light |
| 4 Flue control | 13 Hot water circuit: | 19 ON/OFF warning light |
| 5 Delivery sensor | - 8-bar safety valve | 20 Lock-out warning light |
| 6 Burner | - Non-return valve | 21 Hot water adjustment potentiometer |
| 7 Circulator | - Inspection filter | 22 Function selector |
| 8 Electric 3-way valve | 14 Total safety thermostat | 23 Heating adjustment potentiometer |
| 9 Automatic by-pass | 15 Fume exchanger | |



DIMENSIONS mm



TECHNICAL FEATURES

MODELL	Thermal capacity				Min. thermal capacity				Hot water supply			Operating pressure		Expansion tank		Weight
	Input		Output		Input		Output		Supply $\Delta 30\text{ }^{\circ}\text{C}$	Peak output in first 10 minutes	Water heater capacity	Heating circuit max.	Hot water circuit	Heating	Hot water	
	kW	kcal/h	kW	kcal/h	kW	kcal/h	kW	kcal/h	l/min	l	l	bar	bar	l	l	kg
VELA X N 24	26	22360	23,4	20124	12,1	10406	10,43	8970	10	150	60	3	8	8	2	63

Boiler version: mod. MB type B11 BS

Max. water temperature 90°C

Category: II 2H3+

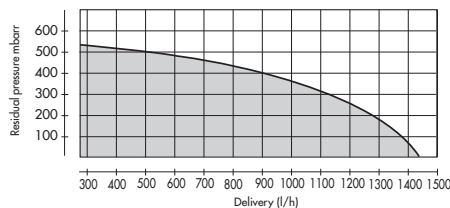
Rated gas pressure: Natural gas 20 mbar

B 28/30 mbar - P 37 mbar

CIRCULATING PUMP FEATURES

System delivery/pressure

VELA X N 24 MB W TOP/IT



Operation of safety flow switch: minimum ΔP 1,2 mt.



GAS - NOZZLE CALIBRATION

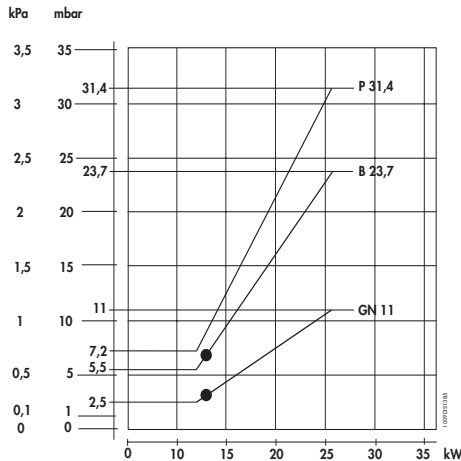
The boilers leave the factory calibrated and ready to operate with NATURAL GAS and LIQUID GAS.

For proper calibration, see the table below:

Gas type	Jets pressure mbar		Delivery VELA X N 24 m ³ /h	Burner jets VELA X N 24 Ø mm.	L.C.V. kcal/m ³
	min.	max.			
NATURAL GAS (G20-20mbar)	2,5	11	2,6	1,25	8.550
LIQUID GAS B (G30-28/30mbar)	5,5	23,7	0,76	0,77	29.330
LIQUID GAS P (G31-37mbar)	7,2	31,4	1	0,77	22.360

BURNER PRESSURE CURVES - OUTPUT

VELA X N 24 MB



- Slow ignition adjustment
3 mbars NATURAL GAS
7 mbars LIQUID GAS



ELECTRICAL CONNECTIONS - WIRING DIAGRAMS

The boiler must be connected to an earthed, single-phase 230V - 50 Hz mains supply by means of a three-wire cable, ensuring that connections to the LINE and NEUTRAL terminals are made correctly. A bipolar switch must be used with contacts opening to at least 3 mm.

The power lead must only be replaced by another with the following characteristics: "HAR H05 vv-F" 3 x 1.00 mm². (You are strongly advised to use original LAMBORGHINI accessories and spare parts only).

Installation must be made in compliance with safety REGULATIONS IN FORCE.

Make a good earth connection.

Voltage	Frequency	Absorbed power kW	Protection index	Noise level dB (A)
V	Hz	VELA X N 24	IP	VELA X N 24
230	50	0,120	44	51

To gain access to the electrical panel which houses the power supply terminal block and any connection to a room thermostat, proceed as follows:

- Disconnect the boiler power supply
- Undo the two grating screws (fig.1)
- Undo the four shell attachment screws **A** (fig.2)
- Remove the shell (fig.3)
- To gain access to the electrical and electronic components loosen screws **B** and pull the entire panel outwards (fig.4). Tilt it downwards and undo the screws **C** on the cover **D**

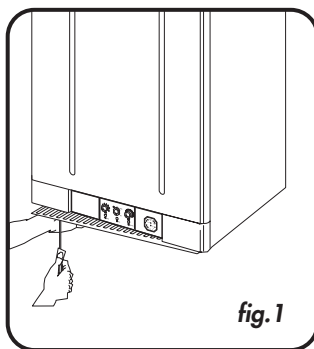


fig.1

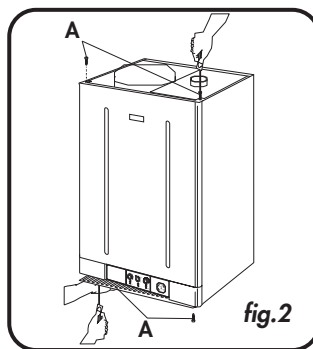


fig.2

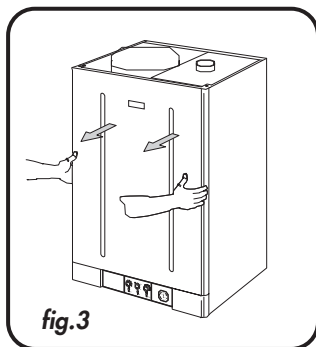


fig.3

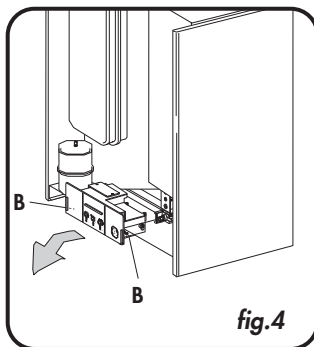


fig.4

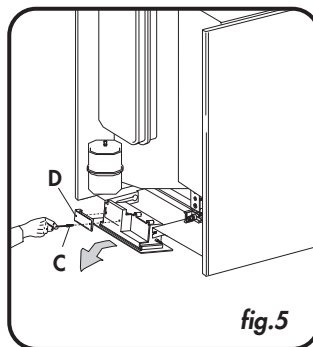
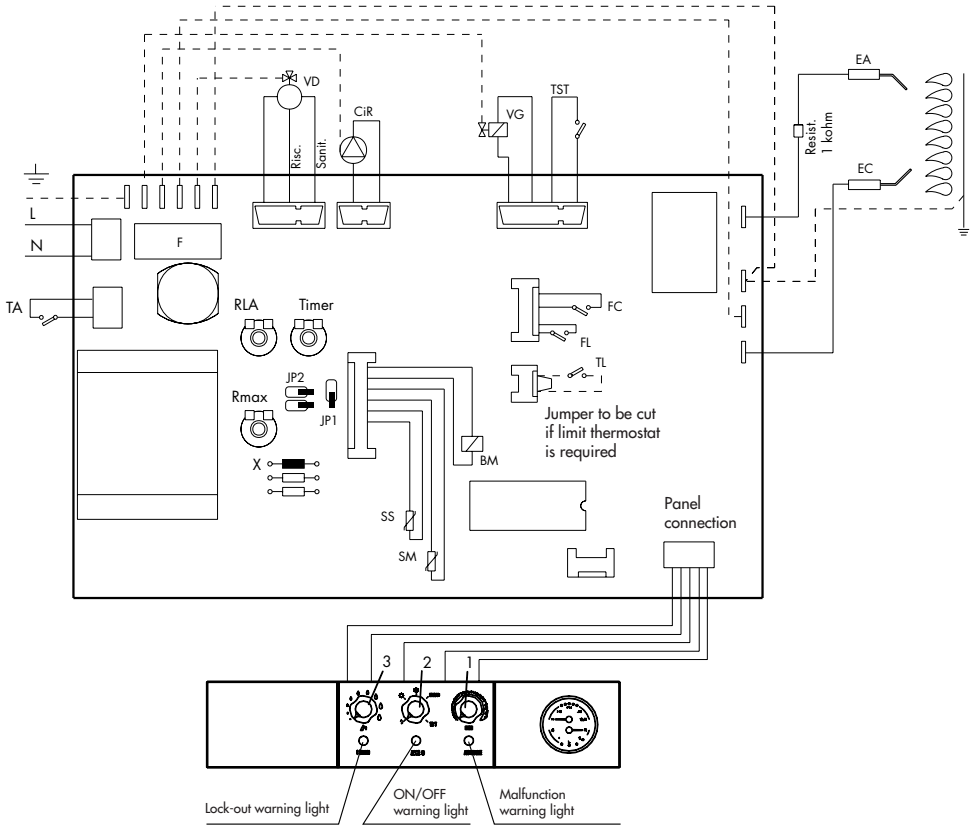


fig.5



ASSEMBLY DIAGRAM



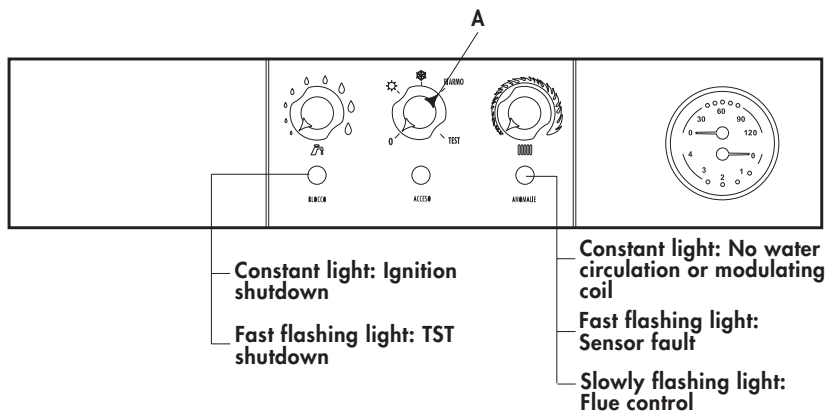
CONTROL PANEL

LEGEND

BM	Modulating coil	RLA	Slow ignition adjustment		temperatures
CiR	Heating circulator	Rmax.	Heating max. power adjustment	1	Heating potentiometer
EA	Ignition electrode	SM	Delivery sensor	2	Selector: Off
EC	Control electrode	SS	Hot water sensor		Summer
F	Fuse	TA	Room thermostat (if any)		Winter
FC	Flue control	TL	Limit thermostat (if any)		Reset
FL	Safety flow-switch	TST	Safety thermostat	3	Test
JP1	Methane/LPG selector	Timer	Boiler timer adjustment		Hot water potentiometer
JP2	Post-circulation selector	VD	3-way valve		
L	Line 230 V 50 Hz	VG	Gas valve		
N	Neutral	X	Resistor to be cut for low		



MULFUNCTIONS AND ADJUSTMENTS



Should the boiler shut down it must be reset by rotating function selector to the reset position **A**.

Legend:



JP1 **On** GPL - **Off** METHANE

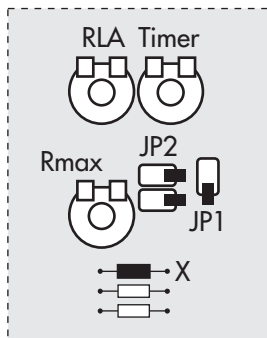
JP2 **On** (post-circ. off) heating **Off** post-circ. on 2.5 minutes

Resistor R150 cut, floor heating temp. set to 30/40°C.
Resistor R150 uncut, heating temperature 35/80°C

RLA Slow ignition adjustment
Aumento

R máx Heating power adjustment
Increase

Timer Boiler timer adjustment
Increase





WATER CONNECTION

Fit the supporting hooks and attach the assembly template, moving it up to the wall; fit all the pipes, starting with the end pipe fittings already mounted on the template: system supply, system return, cold water, hot water, any gas pipes and electric mains leads with room thermostat.

Once the pipes have been fitted, the end pipe fittings can be removed and ordinary caps fitted, ready for hydraulic tests to be carried out. The template can be removed or, if left in place, will be embedded in the wall once finishing operations have been completed (plaster and tiles); only the two supporting hooks will protrude from the wall, as well as an opening for the connections. Attach the boiler to the hooks through the holes at the back of the frame and push it up against the finished wall. Make the necessary hydraulic connections.

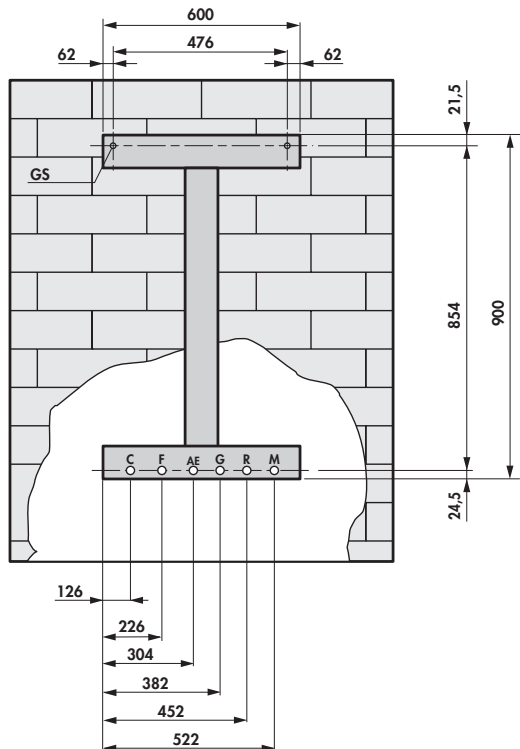
ADVICE AND SUGGESTIONS ON PREVENTING SYSTEM VIBRATION AND NOISE

- Do not use pipes of reduced diameter.
- Do not use low-radius elbows or fittings that significantly reduce cross-section.
- **Hot-flushing of the system is recommended** in order to eliminate any impurities from the piping and radiators (especially oil and grease) which might **damage the circulator**.

LEGEND

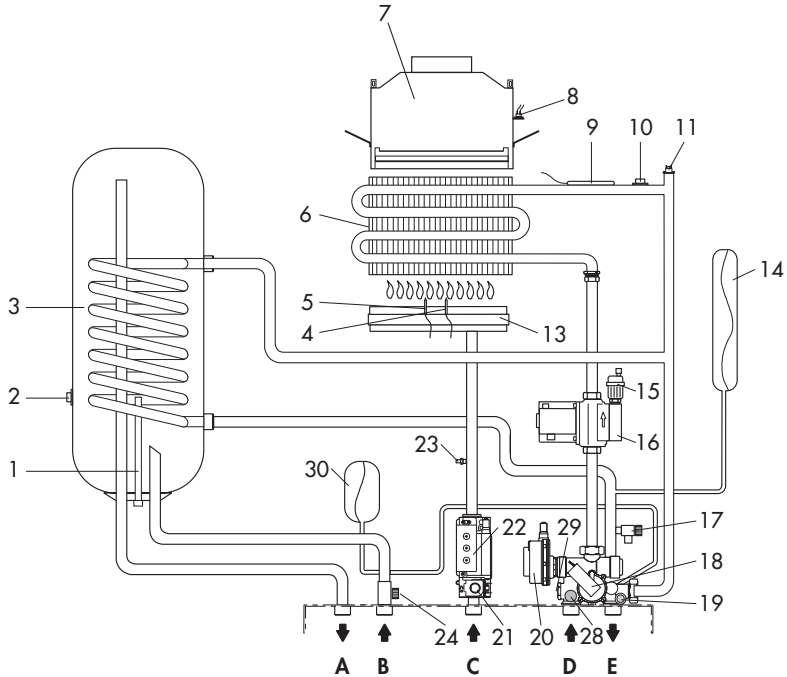
- C** Hot water \varnothing 1/2"
- G** Gas \varnothing 1/2" - \varnothing 3/4" (see tap supplied with the boiler)
- F** Boiler water supply \varnothing 1/2" (cold)
- AE** Electrical supply
- M** System delivery \varnothing 3/4"
- R** System return \varnothing 3/4"
- GS** Holding hooks \varnothing 10 mm.

NOTE: Provide female water connections.





WATER CIRCUIT



LEGEND

- | | | | |
|-----------|------------------------------|-----------|--------------------------------|
| A | Hot water outlet | 13 | Burner |
| B | Cold water inlet | 14 | Heating expansion tank |
| C | Gas | 15 | Automatic air bleed valve |
| D | System return | 16 | Circulator |
| E | System delivery | 17 | Heating safety valve |
| 1 | Magnesium anode | 18 | Pressostato differenziale aqua |
| 2 | Water-heater sensor | 19 | Filling tap |
| 3 | Stainless steel water-heater | 20 | Electric 3-way valve |
| 4 | Ignition electrode | 21 | Modulating coil |
| 5 | Detection electrode | 22 | Gas valve |
| 6 | Exchanger gas/water | 23 | Pressure reading point |
| 7 | Flue hood | 24 | Hot water safety valve |
| 8 | Flue control | 28 | Drain tap boiler |
| 9 | Thermometer | 29 | Hydrometer |
| 10 | Delivery sensor | 30 | Hot water expansion tank |
| 11 | Total safety thermostat | | |



INSTALLATION

To be carried out by qualified personnel.

The installation must be in compliance with the stipulations of the law regarding the evacuation of combustion materials according to the REGULATIONS IN FORCE.

The gas fume evacuation must be effected with a pipe of a diameter not less than that required by the boiler and it must be connected to a flue pipe suitable for the capacity of the installation.

For connection of appliances to smoke conduits:

- a) they must be easy to dismantle;
- b) they must be sealed and of a material able to resist the products of combustion and their possible condensation;
- c) they must not have regulation devices (gate valves). If such devices are already in operation they must be eliminated;
- d) the connection itself must not protrude inside the flue pipe but stop before the internal face of the same.

GAS CONNECTION

Carry out the gas connection in accordance with the regulations in force.

The boiler must be connected to the installation with a rigid metal pipe or a flexible stainless steel pipe with continuous wall of the approved type. The flexible corrugated metal pipes must be installed in such a way that their length, in a state of maximum extension, is not greater than 2000 mm. The boilers are calibrated and tested to function with NATURAL GAS and LIQUID GAS, category II 2H3+, with rated pressures of 20 mbars, 28/30 mbars and 37 mbars respectively.

PUTTING THE BOILER INTO SERVICE

- Proceed with the clearing out of air.
- Check that there are no gas leaks
(use a soapy solution or equivalent product).

START-UP

REFILLING INSTALLATION

Open the supply tap slowly until the pressure of the installation, indicated by the hydrometer, is raised to the value of 1.5 bar, then close it again. Verify that the automatic air bleed valve on the circulator has its cap loosened. Operate the circulator repeatedly to release any air remaining in the circuit.

SWITCHING ON

Open the gas tap and turn the selector switch to the desired position. The burner will ignite automatically. Should the burner fail to ignite check the lock-out warning light to see whether it is on, and if so turn the selector switch to the RESET position so that the boiler repeats the ignition sequence.

Then, adjust heating and hot water temperatures as desired via the appropriate controls.



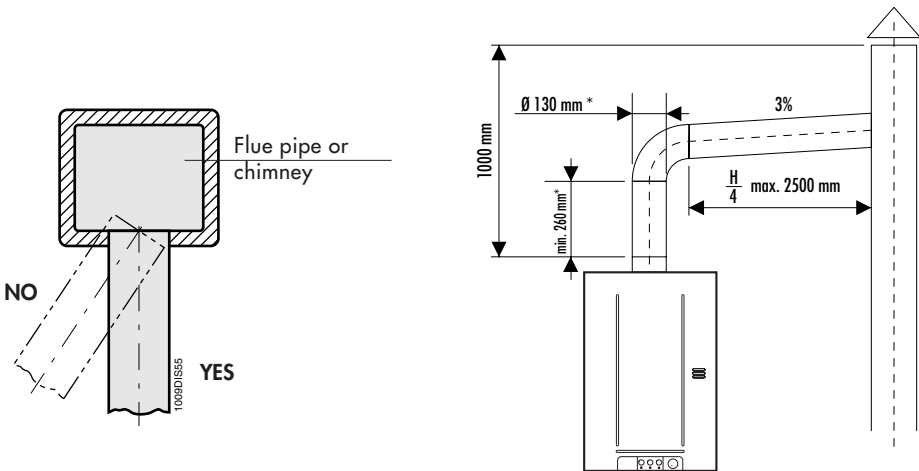
FLUE EXHAUST CONNECTION

The boiler is envisaged being **connected to a chimney** and/or a flue pipe; the combustion fumes can also be discharged **directly outside**.

The joining to the chimney or flue pipe must be made with a **smoke conduit** having the following features:

- of being sealed airtight, as with the connection to the chimney itself;
- of being of suitable material;
- of being connected within sight;
- of having changes in direction, not more than 3 no., which must be carried out with internal angles greater than 90° and with the use of curved elements;
- of not having any intercepting devices;
- of having the axis at the entrance of the terminal section perpendicular to the opposite internal wall of the chimney;
- of being firmly fixed and sealed at the entrance, without protruding beyond the inner walls of the chimney;
- of receiving preferably one boiler only;
- of observing the local regulations in force.

WARNING: This unit is fitted with a Flue Control device to control flue draught. This is tripped when there is a risk of combustion fume backflow. This device must never be deactivated. If combustion fumes re-enter the room they may cause chronic or acute intoxication and can be fatal. If the Flue Control device is changed use only original spare parts. If the device trips repeatedly check for proper fume outflow via the chimney flue and contact a Lamborghini Service Centre.



* = VELA X N 24



ADJUSTMENTS

The boilers have a fast opening gas valve. The necessary calibration for gas flow-rate may be obtained from a double modulator coil. Calibration of the slow ignition (pre-calibrated in the factory) is electronically done and is adjustable (for optimising and for gas type conversion) by the trimmer **RLA** on the electronic board. The necessary thermal output for the heating system can be regulated by manipulating the trimmer **R MAX**. All the boilers are calibrated in the factory to release 70% of their maximum heating capacity. By manipulating the trimmer **timer** the waiting time for re-starting the boiler may be varied. All adjustments must be made on the basis of the specific characteristics of the apparatus in use. It is necessary to check the inlet and outlet pressures at the pressure plugs. After checking, tighten the bolts properly.

ADJUSTMENT OF OUTLET PRESSURE

Maximum pressure:

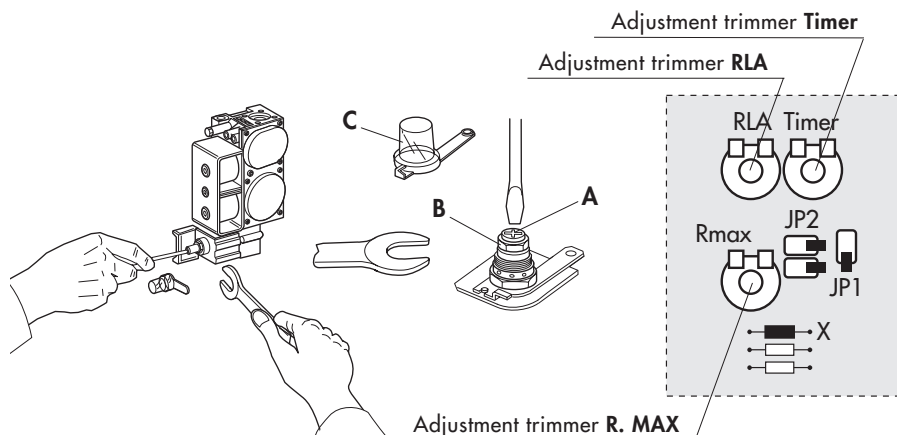
- Turn the function selector to the TEST position. TEST function remains on for max. 15 minutes.
- Feed the modulating device with correct power supply.
- By turning nut **B** clockwise (use a 10 mm wrench), the outlet pressure increases.

Minimum pressure screw **A** (adjust only after the calibration of the maximum outlet pressure has been completed):

- Disconnect modulator power supply.
- While blocking the nut **B** with a wrench, turn the screw **A** clockwise to increase the outlet pressure.

After calibration:

- Check the maximum and the minimum pressures and adjust them if necessary.
- Fit the plastic cap **C**.
- Rotate the function selector to the desired position.



Note: For this calibration it is necessary to use a water column pressure gauge connected to the pressure plug.



SWITCHING OFF

PROLONGED SWITCHING OFF

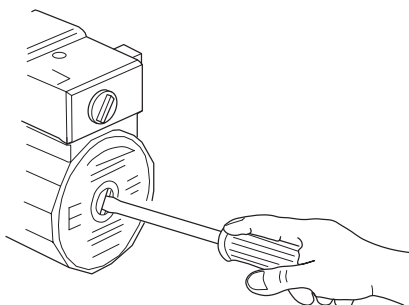
If the boiler should remain inactive at length close the gas tap and disconnect power supply of the appliance.

TEMPORARY SWITCHING ON/OFF

Proceed in one of the following ways:

- use the room thermostat;
- use the adjustment potentiometers (on the instrument panel).

NOTE: with a new boiler or after a long period of inactivity, one can check for the locking of the circulating pump. In this case it is necessary to unscrew the front stopper and make the motor shaft rotate with a screwdriver.



MAINTENANCE

To ensure long-lasting product functionality and efficiency within the limits prescribed by the laws and standards in force, the unit must undergo regular maintenance.

Frequency of inspection depends on the specific conditions of installation and use but it is advisable to have the unit checked **once a year** by authorised **Lamborghini Service** personnel. Only properly qualified personnel with specific knowledge in the field of safety, efficiency, environmental hygiene and combustion may carry out work on the unit. To ensure proper maintenance it is also required that such personnel be fully updated on the constructive and functional characteristics of the boiler.

Should work or maintenance be carried out on any structures situated near fume ducts and/or fume discharge devices and their accessories always switch off the boiler and, when work is over, have its efficiency checked by qualified personnel

IMPORTANT: before doing any cleaning or maintenance work on the unit switch off the electrical power supply via the switch on the boiler itself. Shut off the gas supply by closing the tap on the boiler. The above stated work generally involves the following:

- removal of any oxidation from burners
- removal of any encrustation from heat exchangers
- checking connections between the various air/fume pipes
- general pipe cleaning



- checking general external appearance of boiler
- checking for proper ignition, shutdown and operation of both hot water and heating functions
- checking for proper seal on gas/water fittings and pipes.
- checking gas consumption at minimum and maximum power
- checking position of ignition electrode
- checking position of detection electrode
- checking combustion and efficiency parameters
- checking the no-gas safety device
- checking combustion fumes outlet safety device
- water system pressure
- expansion tank efficiency
- checking for proper operation of safety and adjustment thermostats
- checking for proper circulation pump operation
- checking that no gas whatsoever leaks from the unit and no combustion gas leaks from the down-draught diverter or the boiler-flue connection.
- checking gas flow rate.

Do not clean the unit and/or its component parts with easily inflammable substances (e.g. petrol, alcohol etc.)

Do not clean panelling, painted and plastic parts with paint diluents.

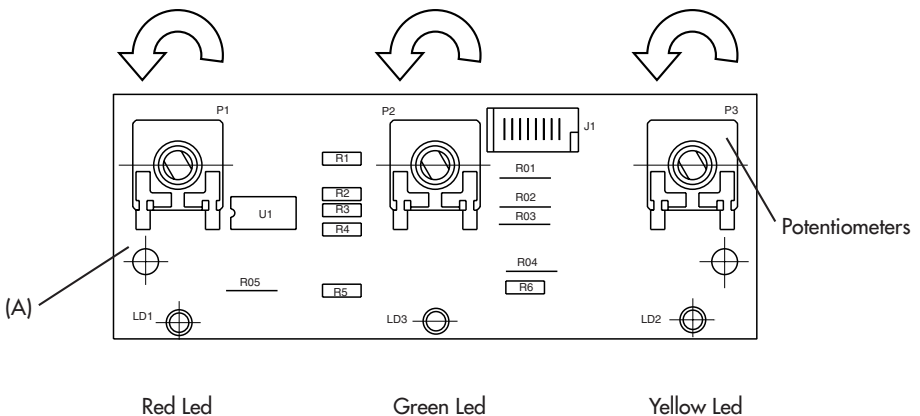
Clean the panelling with soapy water only.

KNOB ASSEMBLY INSTRUCTIONS

If the electronic display board (A) is replaced, the knobs and the control board must be correctly positioned during reassembly.

Before reassembling the new display board, zero set the potentiometers (trimmers) by turning anticlockwise as illustrated in the figure:

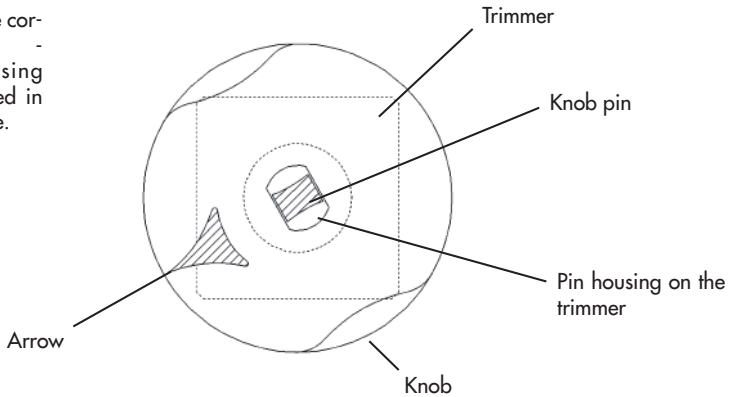
Turn the trimmers to zero set.





Then remove the knobs from the front panel. Screw the display board onto the back of the panel and insert the knobs so that the arrows on the knobs are set at the minimum value (zero).

Enlarged detail of the correct knob pin - potentiometer housing coupling as described in the instructions above.



If a room thermostat is installed we recommend our chronothermostat CLASS PIU' which, in addition to guaranteeing the comfort of a precise regulation of temperature, offers a notable range of heating programmes; alternatively use a programming digital timer.

ATTENTION. The room thermostat with 230 V mains supply must be connected to the earth terminal, or use a class II room thermostat.



Chronothermostat CLASS PIU' (accessory)



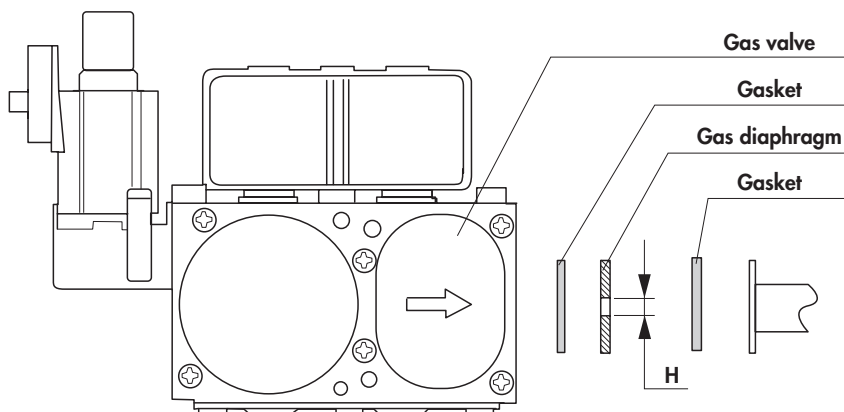
OPERATION WITH DIFFERENT TYPES OF GAS

CONVERSION FROM NATURAL GAS TO LIQUID GAS

Replace the burner jets, insert the diaphragm as illustrated in the diagram included with the relevant kit. Shift the jumper JP1 on the modulating board from the NATURAL GAS position to the B-P position. Then adjust properly as described in the "ADJUSTMENT" chapter on page 37. For information on jets diameter and working gas pressure see the table below.

Gas type	Jets pressure mbar VELA X N 24		Delivery VELA X N 24 m ³ /h	Burner jets VELA X N 24 Ø mm.	L.C.V. kcal/m ³	NOx class	Gas diaphragm H VELA X N 24 Ø
	min.	max.					
NATURAL GAS (G20-20mbar)	2,5	11	2,6	1,25	8.550	2	-
LIQUID GAS B (G30-28/30mbar)	5,5	23,7	0,76	0,77	29.330	2	5,2
LIQUID GAS P (G31-37mbar)	7,2	31,4	1	0,77	22.360	2	5,2

COMPONENTS FOR OPERATION ON LIQUID GAS



BRUCIATORI
CALDAIE MURALI E TERRA A GAS
GRUPPI TERMICI IN GHISA E IN ACCIAIO
GENERATORI DI ARIA CALDA
TRATTAMENTO ACQUA
CONDIZIONAMENTO

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Le illustrazioni e i dati riportati sono indicativi e non impegnano. La LAMBORGHINI si riserva il diritto di apportare senza obbligo di preavviso tutte le modifiche che ritiene più opportuno per l'evoluzione del prodotto.

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Lamborghini

CALORECLIMA

AZIENDA CERTIFICATA ISO 9001

IT CALDAIA MURALE A GAS CON BOLLITORE AD ACCUMULO
ALTO RENDIMENTO - MODULANTE **2**
MANUALE PER L'UTENTE

Alla cortese attenzione del sig. **INSTALLATORE**:
Consegnare il presente manuale d'uso all'**UTENTE**



GB WALL-HUNG GAS BOILER WITH HOT WATER STORAGE
TANK - HIGH EFFICIENCY - MODULATING UNIT **9**
USER MANUAL

For the attention of the **INSTALLATION TECHNICIAN**:
Make sure that this manual is handed over to the **USER**

ES CALDERA MURAL A GAS CON ACUMULADOR
ALTO RENDIMIENTO - MODULANTE **16**
MANUAL PARA EL USUARIO

A la atención del Sr. **INSTALADOR**:
Entregar el presente manual para el uso al **USUARIO**

PT CALDEIRA DE PAREDE A GÁS COM TERMOACUMULADOR -
ALTO RENDIMENTO - MODULANTE **23**
MANUAL DO UTENTE

À atenção do Sr. **INSTALADOR**:
Entregue este manual de uso ao **UTENTE**



Vela X N 24 MB/IT



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Dear User...

.....you have entered into possession of a product that is the result of a careful design and advanced production systems ensuring high-top operational reliability and saving. Read carefully this guide in order to know any detail concerning the product's operation system.

The "LAMBORGHINI SERVICE" after-sales centres are at your disposal to ensure QUALIFIED MAINTENANCE and PROMPT SERVICE.

LAMBORGHINI CALORECLIMA

For the installation and positioning of the boiler
CAREFULLY OBSERVE THE LOCAL REGULATIONS IN FORCE



GENERAL INSTRUCTIONS

- This booklet constitutes an integral and essential part of the product and should be preserved for any further consultation.
Read carefully the instructions contained in this booklet as they provide important directions regarding the operation of the appliance, allowing a great saving in its use and maintenance.
- If the appliance is sold or transferred to other people or if you move house and leave your apartment, ensure that the manual remains with the appliance so that it can be used by the new owner.
- This appliance should be destined only for the use for which it has been expressly envisaged. Any other use is to be considered improper and therefore dangerous. The manufacturer cannot be considered responsible for any damages caused from improper or unreasonable use.
- Do not touch the parts of the boiler which during the operation become overheated. These parts can be dangerous for children or inexperienced persons.
- Do not obstruct the inlet or dissipation screens.
- Do not make the boiler wet with splashes of water or other liquids.
- Do not rest any object upon the boiler.
- Use of the boiler is prohibited for children or the inexperienced.
- Do not carry out any cleaning of the boiler with inflammable substances.
- Do not deposit containers of inflammable substances in the location where the boiler is situated.
- In the presence of the risk of freezing suitable provisions must be taken which are not however the concern of the boiler manufacturer.

ALL INSTALLATION, MAINTENANCE AND GAS CONVERSION OPERATIONS MUST BE CARRIED OUT BY AUTHORISED SKILLED TECHNICIANS.

TO ENSURE THAT BOILER IS INSTALLED CORRECTLY AND THAT IT FUNCTIONS PROPERLY, WE RECOMMEND THAT ONLY LAMBORGHINI ACCESSORIES AND SPARE PARTS BE USED.

ON NOTICING THE SMELL OF GAS DO NOT TOUCH ANY ELECTRIC SWITCH. OPEN DOORS AND WINDOWS. SHUT OFF THE GAS TAPS.



INSTRUCTIONS FOR THE USE

- In case of breakdown and/or malfunctioning of the appliance, disconnect it avoiding any attempt of repair or direct intervention.
Call exclusively professionally qualified personnel.
Any repair must be carried out by an after-sale service centre "LAMBORGHINI SERVICE" authorised by the manufacturing firm, and using original replacements exclusively.
Non-observance of the above could compromise the safety of the appliance.
In order to guarantee the efficiency of the appliance and its proper operation it is indispensable to keep to the manufacturer's directions, by ensuring the periodical servicing of the appliance is carried out by professionally qualified personnel.
- Check the system hydraulic pressure during the first ignition and then periodically by using the hydrometer. Check that readings for the system when cold are within manufacturer-specified limits. Should any falls-off in pressure be noticed contact a qualified technician.
- After each reopening of the gas tap wait a few minutes before restarting the boiler.
- Do not leave the boiler switched on if it is not used for long time: in this case switch gas main supply, electricity and water supply off by their own taps and switches.
- As soon as one decides not to use the appliance further, one should take care to render innocuous those parts liable to be potential sources of danger.
- As soon as one decides to disconnect the boiler definitively, one should ask qualified personnel to effect the related works, then ensure that the main supplies have been disconnected.
- For the power supply to the boiler the use of adaptors, multiple sockets or extensions is not permitted. The use of a switch as indicated by the safety regulations in force must be provided.
- The use of appliances which utilise electrical energy involve the observation of fundamental rules which are:
 - a) not to touch the appliance with parts of the body which are wet or when in bare feet;
 - b) not to pull electrical wires;
 - c) not to expose the appliance to the atmospheric agents;
 - d) not to allow use of the appliance to children or the inexperienced.
- In the case of structural work positioned near the flue pipe, turn off the boiler and at the end of the work ensure that the efficiency of the flue exhaust is verified by qualified personnel.
- On noticing the smell of gas do not touch any electric switch. Open all doors and windows. Shut off the gas taps and call qualified personnel.

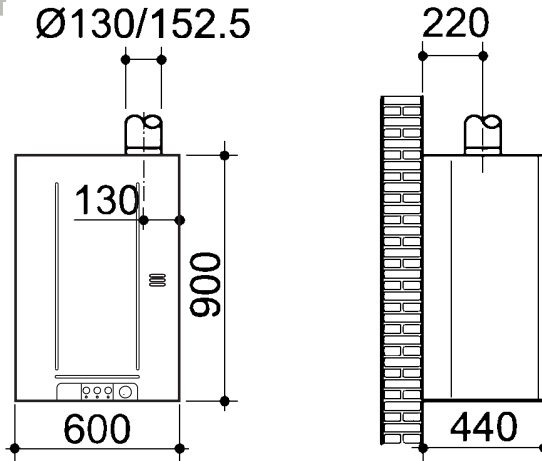


CHECKS AND MAINTENANCE

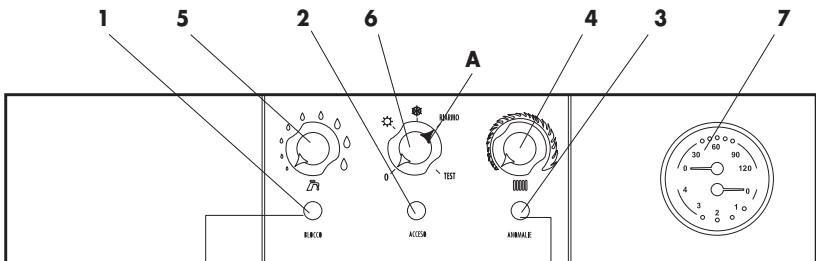
- Before starting up the boiler ask qualified personnel “LAMBORGHINI SERVICE” to check:
 - a) that the data on the information plate corresponds to that required by the gas, electrical and water supply networks;
 - b) that the pipes which branch off from the boiler are lined with suitable thermally-insulated sheathing;
 - c) the proper functioning of the flue pipe;
 - d) that the comburent air flow and the fumes evacuation take place properly in accordance with the regulations in force;
 - e) that correct aeration and maintenance are possible in case of installation in the furniture.
- The conversion from a gas (methane or B/P) to a gas of another family, which can also be made with the boiler installed, must be made exclusively by qualified personnel.
- Ensure that the installer has connected the boiler and water-heater safety discharge to a waste. In the case of the contrary the intervention of the safety valves could flood the premises. The manufacturer would not be held responsible for this.
- Ensure that the piping of the installation is not used as an earth outlet for other installations; beyond not being ideal for such a use it could in short bring serious damage to the other appliances connected to it.
- Ask qualified personnel “LAMBORGHINI SERVICE” to check:
 - a) the internal and external tightness of the gas system;
 - b) that the gas delivery is that required by the boiler output;
 - c) that the type of gas is suitable for the boiler;
 - d) that the pressure of gas supply is within the values stated on the boiler plate;
 - e) that the gas installation is the correct size and equipped with all the safety and checking devices prescribed by the current regulations.
- Ask periodically to check the proper functioning and the good state of the flue exhaust.
- Ensure that the electrical system has been confirmed by qualified personnel to be adequate for the power required by the appliance itself.
- The electricity supply cable must not be replaced by the user, but by qualified personnel only.
- The electrical safety of the appliance is attained only if the same has been connected to an effective system earthed in accordance with the current regulations. The verification of this fundamental prerequisite should be made by qualified persons as the manufacturer will not be responsible for damage caused by the lack of adequate earthing of the installation.



DIMENSIONS mm.



CONTROL PANEL AND MULFUNCTIONS



Constant light: Ignition shutdown

Fast flashing light: TST shutdown

Constant light: No water circulation or modulating coil

Fast flashing light: Sensor fault

Slowly flashing light: Flue control

Should the boiler shut down it must be reset by rotating function selector 6 to the reset position A.

- 1 Lock-out warning light
- 2 ON/OFF warning light
- 3 Malfunction warning light
- 4 Heating adjustment potentiometer
- 5 Hot water adjustment potentiometer
- 6 Operation selector
- 7 Thermohydrometer



START UP - OPERATION - SWITCHING OFF INSTRUCTIONS

START UP

Open the gas tap and turn the selector switch (6) to the desired position. The burner will ignite automatically.

Should ignition fail to take place check the lock-out warning lights (1) and fault warning lights (3) to see if they have come on. Turn the selector (6) to the reset position A. Then rotate the selector (6) again to the desired position. Then adjust heating temperature (4) and domestic hot water temperature (5) as desired via the appropriate controls.

TEMPORARY SWITCHING ON/OFF

Proceed in one of the following ways:

- use the room thermostat;
- use the adjustment potentiometers, (4) and (5) on the instrument panel.

PROLONGED SWITCHING OFF

Should the boiler remain idle for a long period close the gas tap, position the selector switch (6) at position 0 and disconnect the electrical power supply.

SUMMER MODE:

Turn the selector switch (6) to SUMMER. ☀

Regulate the domestic hot water potentiometer (5) to a position corresponding to desired water temperature.

WINTER MODE:

Turn the selector switch (6) to WINTER. ❄

sired

Regulate the Heating Potentiometer (4) to a position that corresponds to de-heating temperature.

ture

If a Room Thermostat is installed then the thermostat will keep room temperature at the set level.

Adjust the domestic hot water potentiometer (5) to a position corresponding to desired water temperature.

IMPORTANT:

VELA X MB boilers are fitted with FLUE CONTROL to monitor flue draught. This safety device shuts down the boiler if there is a risk of combustion fume backflow into the room. This device must never be deactivated. If combustion fumes re-enter the room they may cause chronic or acute intoxication that can be fatal. If the Flue Control device is changed use only original spare parts.

If the device trips repeatedly contact a Lamborghini Service Centre.

WARNING: When Summer ☀ or Winter ❄ mode is selected the ON indicator light comes on indicating that the boiler is electrically powered.

WARNING: Use only 2A/250V - 5x20 rapid fuses.



FAULT-FINDING CHART

FAULT	CAUSE	REMEDY
1 NO IGNITION	A. Gas tap closed B. Boiler in lock-out mode C. No flame detection D. No ignition spark E. Air inside pipes F. Safety thermostat intervention	A. Open gas tap B. Reset by pressing C. Call technical service D. Call technical service E. Repeat ignition F. Wait for temperature to lower
2 CRACKLING IGNITION	A. Irregular flame B. Insufficient or wrongly adjusted gas flow-rate	A. Call technical service B. Call technical service
3 SMELL OF GAS	A. Leak in pipes circuit (inside and outside boiler)	A. Call technical service
4 SMELL OF UNBURNT GAS AND BAD COMBUSTION OF THE BURNER	A. Flue section or height with joint not suitable for the boiler B. Excessive gas consumption - Combustion state is imperfect C. Flames tend to move away or have yellow tips	A. Call technical service B. Call technical service C. Call technical service
5 CONDENSATION IN THE BOILER	A. Flue section or height not suitable (excessive size) B. Boiler operating at low temperature	A. Call technical service B. Adjust boiler thermostat at a higher temperature.
6 COLD RADIATORS IN WINTER	A. Function selector on summer position B. Low adjusted or defective room thermostat C. System or radiators closed D. No water warning light on	A. Place it on winter position B. Adjust thermostat at a higher temperature or replace it. C. Check if system gate valves and radiators taps are opened. If item C has been checked with negative result call technical service D. Call technical service

BRUCIATORI
CALDAIE MURALI E TERRA A GAS
GRUPPI TERMICI IN GHISA E IN ACCIAIO
GENERATORI DI ARIA CALDA
TRATTAMENTO ACQUA
CONDIZIONAMENTO

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