

# Riva

## ADVANCE SV

### WALL HUNG GAS BOILER FOR CENTRAL HEATING SUPPLY

**Please Read Instructions Carefully  
Save for Future Reference**

**WARNING:** If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
  - Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you can not reach your gas supplier call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

Manufactured by:



Biasi S.p.A.  
Verona, Italy



Distributed By:



Quincy Hydronic Technology Inc.  
3560 Lafayette Rd. Bldg. 2 Unit A  
Portsmouth, NH 03801  
Phone: 603-334-6400  
Fax: 603-334-6401

Dear Customer:

Thank you for buying a Biasi Riva Advance SV.

The Riva Advance SV is a high efficiency condensing, wall mounted gas boiler which provides central heat.

We realize that it is not possible to answer all questions about the Riva Advance SV in this manual. Reading this installation manual does not make the reader an expert in all aspects of installation and operation, and does not replace the need for a qualified, licensed heating contractor. We urge you to contact your installing contractor or distributor if you are in question about any aspect of your boiler's performance. Our main concern is that you are satisfied with your boiler and its performance. We require that your contractor complete efficiency tests using instruments.

The external controls and accessories listed in this manual (excluding those supplied inside the boiler) are intended to serve as guidelines rather than specific recommendations. We realize that other makes and models of such devices are available and can be used as successfully as those we specify. The installing contractor is the best judge of a system's specific requirements, as well as the local availability of certain makes and models of controls and accessories. The preceding does not apply, however, to the equipment that comes with every boiler, such as the overheat control and pressure relief valves. The installation of the specific devices supplied with every boiler is absolutely necessary to the safe operation of the boiler and protection of the heating system.

All BIASI wall hung boilers are built in accordance with the ASME boiler and pressure vessel code, and bear the "H" stamp. The Entire range of applications for the Riva Advance SV has been tested to standard ANSI Z21.13/CSA4.9 and is CSA compliant.

This Riva Advance SV has a 2 year warranty, a copy of which is provided with the boiler. Please be sure to return the warranty registration card as the warranty will be void without your boiler's serial numbers (located on the ratings label affixed to the boiler), date of installation and the name of your installer being on record in our files.

Thank you for purchasing our Riva Advance SV. If you have questions or comments, please don't hesitate to contact us immediately. Our goal is 100% customer satisfaction.

**QHT inc.**

# Table of Contents

Section Title	Section Number	Page Number
Warning	-	4-5
Important Information	-	6
General Information	1	7
Technical Information	2	7-8
Appliance Description	3	9
Overview	3.1	9
Control Panel	3.2	9
Piping Connections	3.3	9
LCD General Features	4	10-11
Instructions for Use	5	12-17
Warnings	5.1	12
Refilling Procedure	5.2	12
Lighting/Operating Instructions	5.3	13
Temperature Unit Setting (°C or °F)	5.4	13
Central Heating Circuit Temperature	5.5	14-15
Extinguishing Instructions	5.6	15-16
Domestic Hot Water Temperature	5.7	16
Useful Advice	6	17-19
Central Heating	6.1	17
Frost Protection	6.2	17
Periodic Maintenance	6.3	17
External Cleaning	6.4	18
Operational Faults	6.5	18-19
Warranty		20

## **WARNING**

Boiler is certified as an indoor appliance. Do not install boiler outdoors or locate where it will be exposed to freezing temperatures.

**WARNING:** If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
  - Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you can not reach your gas supplier call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

## **DANGER**

**Caution:** Do not store or use flammable materials, chemicals or flammable liquids, especially gasoline, in the vicinity of this heating appliance.

**Caution:** Should overheating occur or the gas supply fail to shut off, do not turn off or disconnect the electrical supply to the pump. Instead, shut off the gas supply at a location external to the appliance.

**Caution:** Do not use this boiler if any part has been under water. Immediately call a qualified service technician to inspect the boiler and to replace any part of the control system and any gas control which has been under water.

## **WARNING**

Any appliance that burns natural gas, propane gas, fuel oil, wood or coal is capable of producing carbon monoxide (CO). Carbon Monoxide (CO) is a gas which is odorless, colorless and tasteless but is very toxic. CO is lighter than air and thus may travel throughout the building.

**BRIEF EXPOSURE TO HIGH CONCENTRATIONS OF CO, OR PROLONGED EXPOSURE TO LESSER AMOUNTS OF CO MAY RESULT IN CARBON MONOXIDE POISONING. EXPOSURE CAN BE FATAL AND EXPOSURE TO HIGH CONCENTRATIONS MAY RESULT IN THE SUDDEN ONSET OF SYMPTOMS INCLUDING UNCONSCIOUSNESS.**

Symptoms of CO poisoning include the following:

dizziness	vision problems	shortness of breath
headache	loss of muscle control	unclear thinking
nausea	weakness	unconsciousness

The symptoms of CO poisoning are often confused with those of influenza, and the highest incidence of poisoning occurs at the onset of cold weather or during flu season.

A victim may not experience any symptoms, only one symptom, or a few symptoms.

**Suspect the presence of carbon monoxide if symptoms tend to disappear when you leave your home.**

The following signs may indicate the presence of carbon monoxide:

- Hot gasses from appliance, venting system pipes or chimney, escaping into the living space.
- Flames coming out around the appliance.
- Yellow colored flames in the appliance.
- Stale or smelly air.
- The presence of soot or carbon in or around the appliance.
- Very high unexplained humidity inside the building.

If any of the symptoms of CO occur, or if any of the signs of carbon monoxide are present, **VACATE THE PREMISES IMMEDIATELY AND CONTACT A QUALIFIED HEATING SERVICE COMPANY OR THE GAS COMPANY OR THE FIRE DEPARTMENT.**

**ONLY QUALIFIED, LICENSED SERVICE CONTRACTORS SHOULD PERFORM WORK ON YOUR BIASI RIVA ADVANCE SV BOILER.**

## IMPORTANT INFORMATION

Please read this page carefully.

- **ALL BOILERS MUST BE INSTALLED IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL PLUMBING, HEATING AND ELECTRICAL CODES AND ORDINANCES, AS WELL AS THE REGULATIONS OF THE SERVING ELECTRICAL, WATER AND GAS UTILITIES.**
- **All systems should be designed by competent contractors, and only persons knowledgeable in the layout and installation of heating systems should attempt the installation of any boiler. It is the responsibility of the installing contractor to see that all controls are correctly installed and operating properly when the installation is completed.**
- **This boiler is intended for use, only with propane or natural gas. All flammable liquids (especially gasoline), chemicals, rags, paper, wood scraps, debris, etc., should be kept away from the boiler at all times. Keep the boiler area clean and free of all fire hazards.**
- **Please read the literature and warranties supplied by the manufacturers of the various accessory equipment. This equipment is warranted by the respective manufacturers, not by Quincy Hydronic Technology, Inc. Each piece of equipment must be installed and used according to the recommendations of the manufacturer.**

### Codes and Regulations:

Installation of the boiler and related equipment must conform to national, state and local regulating agencies and codes applicable to the installation of the equipment. In the absence of local requirements, the following codes apply:

- |   |
|---|
| A. ANSI/NFPA - #70 National Electric Code     |
| B. ANSI/NFPA - #211 Chimneys and Vents        |
| C. ANSI/NFPA - #Z223.1 National Fuel Gas Code |
| C. ANSI/NFPA - Domestic Gas Conversion Burner |
| D. CAN/CGA - B149 Installation Codes          |
| E. ANSI/ASME - CSD-1                          |

The above codes are available from:

National Fire Protection Association (NFPA)  
Battery March Park  
Quincy, Massachusetts, 02269  
<http://www.nfpa.org>

CANADIAN STANDARDS ASSOCIATION  
STANDARDS DIVISION  
5060 Spectrum Way, Suite 100  
Mississauga, Ontario, L4W 5N6

# 1. General Information

The Riva Advance SV is a high efficiency condensing, wall mounted gas boiler which provides central heat. The boiler features a gas valve which modulates the energy input from 32,000 BTU/h to 125,000 BTU/h. The boiler is shipped fully assembled. All units are pressure and combustion tested at the factory prior to shipping.

## Key Features:

- Wall mountable - saving valuable floor space.
- Several flue options available
- Electronic spark ignition
- Safety flow switch - positioned on the main circuit, which monitors the flow and protects the main heat exchanger from thermal shock should there be a lack of water in the system.
- Frost protection - contains an integral frost protection system to prevent frost damage which can occur in areas susceptible to very cold weather conditions.
- Boiler operation recognition system - should the boiler not be used for longer than 24 hours, it then performs a controlled system test to ensuring the motorized components within the boiler do not become inoperable due to lack of use.
- Gas valve modulation - the gas input modulates based off central heating temperature to within  $\pm 2^{\circ}\text{F}$
- Diagnostic information system equipped with three LED diagnostic lights for quick error assessment.

# 2. Technical Information (M210.32 CV)

GENERAL		
Height	in	31.6
Width	in	15.7
Depth	in	13.8
Weight	lb	109.5

ELECTRICAL		
Voltage	V	120
Frequency	Hz	60
Current	A	1.6
Power consumption	W	180

RESTRICTORS REFERENCES	Gas (ø mm)	Air (color)
Natural	N/A	BLUE
Propane	548	BLUE

CENTRAL HEATING		
Maximum working temp.	°F	185
Temp. Regulation range*	°F	100-185
Maximum pressure	psi	30.0
Minimum pressure	psi	4.35
Max head loss (at 4.4 GPM)	ft	8.25
*At the minimum useful output		

## 2. Technical Information Cont.

### ENERGY CAPACITY

Nominal heat input (0/2000 ft)	MBH	125.0
Nominal heat input (2000/4500 ft)	MBH	112.5
Minimum heat input	MBH	32.0
Maximum useful output (0/2000 ft)	MBH	112.5
Maximum useful output (2000/4500 ft)	MBH	107.2
Minimum useful output	MBH	28.8

### GAS PRESSURE AT BURNER

Gas		Min	Max	Ignition
Natural	inwc	6.8	10.0	7.0
Propane	inwc	10.0	13.0	11.0

### FLUE DESIGN

Minimum Venturi pressure	inwc	0.64
Flue pipe diameter		
Coaxial	in	2.25/4 3.25/5
Twin split pipes	in	3.25/3.25
Nominal heat flow rate (0/2000 ft)	MBH	125.0
Nominal heat flow rate (2000/4500 ft)	MBH	112.5
Max Exhaust temperature	°F	190

### GAS FLOW RATE

Gas		Min	Max
Natural	ft³/h	31.0	121.1
Propane	lb/h	1.5	5.7

### CLEARANCE TO COMBUSTIBLES

Front	in	18
Back	in	0
Top	in	10
Sides	in	2
Bottom	in	8
Flue pipe enclosed	in	2
Flue pipe free air	in	0
Hot water pipes	in	1"

### FLUE GAS FIGURES

(at nominal heat input)

Gas	Min	Max
CO <sub>2</sub> content with Natural gas	8.8%	9.8%
CO <sub>2</sub> content with Propane gas	9.6%	11.0%
O <sub>2</sub> content	4.3%	5.0%

### FLUE GAS FIGURES

(at minimum heat input)

Gas	Min	Max
CO <sub>2</sub> content with Natural gas	8.8%	9.8%
CO <sub>2</sub> content with Propane gas	9.6%	11.0%
O <sub>2</sub> content	4.3%	5.0%



## 3. Appliance Description

### 3.1 Overview:

- 1 Case front panel
- 2 Control panel
- 3 Control panel cover

### 3.2 Control Panel:

- 4 Pressure gauge
- 5 LCD
- 6 Boiler reset /setting button
- 7 Function switch and Central heating temperature adjustment knob
- 8 Domestic hot water, temperature control knob

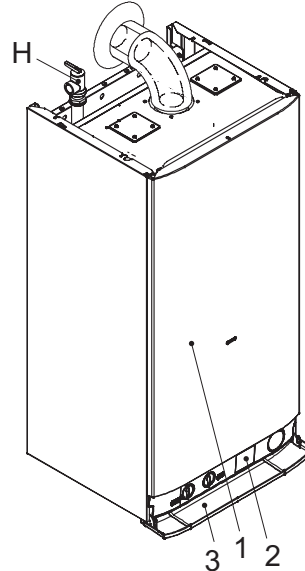


Figure 3.1

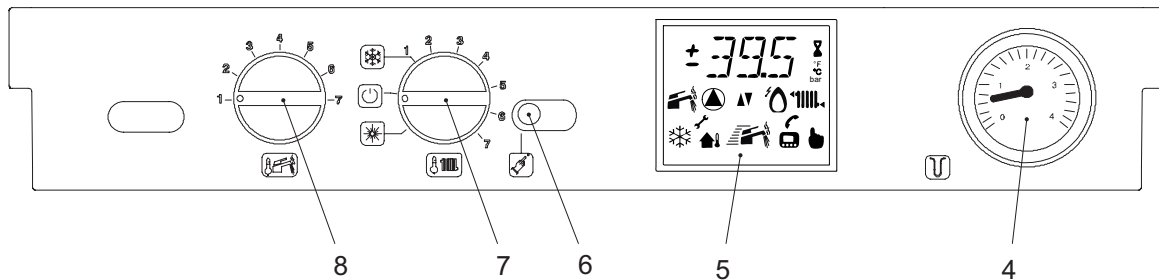


Figure 3.2

### 3.3 Piping Connections:

- A Gas inlet pipe
- B Main circuit drain cock
- C C.h. supply copper pipe
- D C.h. return copper pipe and tank serpentine return
- E D.h.w. tank coil flow
- F Condensate drain connection area

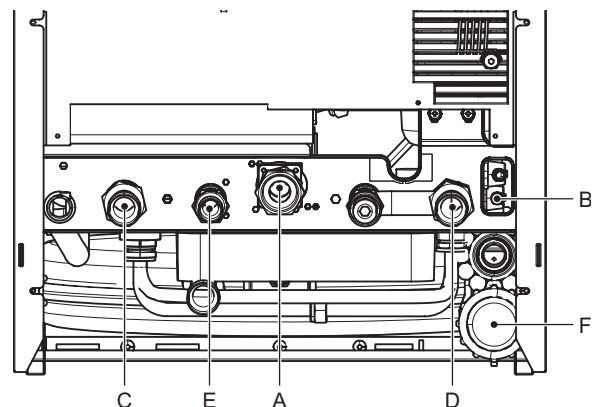


Figure 3.3

## 4. LCD General Features

The LCD (5 in Fig. 3.2) give detailed indication regarding the operation of the boiler.

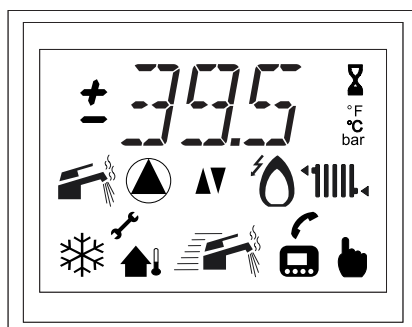


Figure 4.1

### LEGEND













	The symbol indicates that the boiler can be directly reactivated by the user, by pressing the reset button
	The symbol indicates that the fault requires intervention on behalf of specialised technical assistance
	All symbols represented with lines that surround them, indicate that the symbol is flashing




### SIGNAL DISPLAYED BY THE LCD

LCD	FUNCTION
E01 + 	Lack of burner ignition on safety lockout
E02 + 	Safety thermostat intervention lockout
E03 + 	General lockout
E10 + 	Flue probe intervention lockout
E11 + 	Flame detection error

E04 + 	Faulty primary circuit (no water or absence of flow)
E05 + 	Faulty fan control system
E06 + 	Faulty c.h. temp. probe NTC
E07 + 	Faulty d.h.w. temp. probe NTC
E08 + 	Faulty external temp. probe NTC
E09 + 	Faulty flue temp. probe NTC (interruption)
L01	Primary circuit temp. limit during D.h.w. operation
	The flashing symbol indicates the communication between LCD and the card
	Boiler in winter mode (C.h.+ D.h.w.)
	Boiler in summer mode (D.h.w.)
	Boiler in winter standby
	Hot water + heating mode (symbol flashing)
	Boiler in summer standby
	Hot water mode (symbol flashing)
OFF 	Boiler powered and selector OFF (symbol flashing)
	Remote connected
	External temperature control probe connected

## 4. LCD General Features Cont.

 <b>25.....85</b>	Boiler on demand for C.h. power (symbol flashing)
 <b>25.....85</b> 	Boiler requesting heating power with external probe connected (symbol flashing)
	Heating temperature control with delivery sensor (upper probe)
 <b>35.....60</b>	Boiler on demand for D.h.w. power (symbol flashing)
	Preheating enabled
 <b>35.....60</b>	Preheating enabled (symbol flashing)
 <b>5.....35</b>	Boiler in anti-freeze phase (symbol flashing + temperature flashing)
	Burner ignition (spark)
	Flame present (Burner on)
	Pump operating
°C	Variable temperature expressed in °C
bar	Variable expressed in bar (if the pressure sensor is installed)
 <b>35.....60</b>	Set D.h.w. (visible for 10 sec) (all other symbols are disabled) (symbol flashing)

 <b>25.....85</b>	Set C.h. (visible for 10 sec) (all other symbols are disabled) (symbol flashing)
Default parameter reset. Reset is performed only by setting the correct value and all symbols will turn on.	
	
Boiler in chimney sweep functioning mode. The chimney sweep is activated by setting the correct parameter and is visualised by the switching on of the hand and alternate flashing between the temperature and the communication and radiator symbol.	
	

## 5. Instructions For Use

### 5.1 Warnings:

- In order to guaranty safety and correct operation, it is essential that all the tests are carried out by a competent and responsible licensed service person before lighting up the boiler.
- The tests are described in the installation, operation and service instructions manual in Section 15 Commissioning.
- Ensure that the Central Heating circuit is regularly filled with water checking that the pressure indicated on the pressure gauge (4 on figure 3.2) is not lower than 1 bar (14.5 psi) as shown on figure 5.1.
- If the pressure reading on the pressure gauge is below 1 bar (14.5 psi), then the system will require filling. An automatic filling valve is normally provided by the installer for this purpose.
- **If you are in any doubt regarding this procedure you are advised to contact your Installer or an Approved Service Person.**
- This appliance is provided with a built in anti-freeze system that operates the boiler when the temperature is below 41 °F.
- Therefore, when the boiler is not lit or used in cold weather, with consequent risk of freezing **do not switch off the boiler at the circuit breaker or close the gas inlet cock.**
- When you expect not to use the boiler for a long period follow the instructions given in section 5.6 on page 15.

### 5.2 Refilling procedure:

- Isolate the boiler from the electrical supply at the circuit breaker.
- The boiler should have been installed with an automatic fill valve, external to the unit. Open the cold water supply to the automatic fill valve.
- The pressure should be 1 – 1,5 bar (14.5 – 22 psi).
- The automatic fill valve should maintain this pressure, but not exceed it.

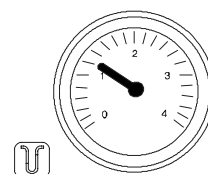


Figure 5.1

Air introduced into the boiler during this filling process will vent through the automatic air purger fitted to the boiler. You may also find it necessary to vent air from your heating circuit using the installed vents, however be aware that excessive venting will cause the pressure in the system to drop. Always ensure that the pressure gauge is set at the required pressure.

## 5. Instructions For Use Cont.

### 5.3 Lighting/Operating Instructions:

**Warnings:** Do not attempt to start the boiler unless all cleanout doors are secured and sealed. Do not attempt to light the burner by hand.

- 1 Check that the cocks connected to the gas inlet pipe and to the supply cold water inlet pipe (see section 3.3 for pipes) are open.
- 2 Power the boiler electrically by setting the power switch foreseen in the installation. The LCD display shows the sequence (figure 5.2).
- 3 If the appliance will not operate, follow the extinguishing instructions on page 14 and call your service technician or gas supplier.

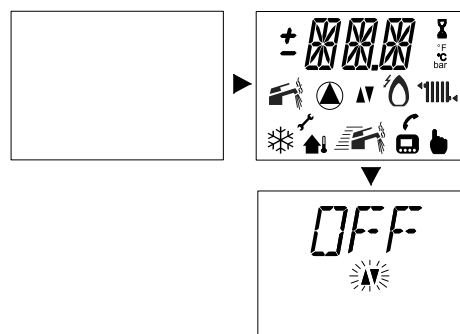


Figure 5.2

### 5.4 Temperature unit setting (°C or °F):

The Function switch and Central heating temperature adjustment (7) knob must be in OFF position.

Press the boiler reset/setting button (6) and simultaneously rotate the domestic hot water temperature control (8) knob to:

- position 1 for °C unit (figure 5.3)
- position 7 for °F unit (figure 5.4)

By releasing the boiler reset/setting button (6), the display indicates the temperature in the chosen unit.

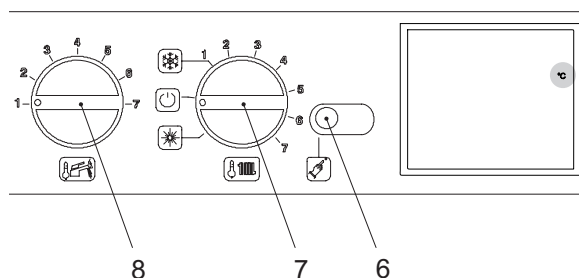


Figure 5.3

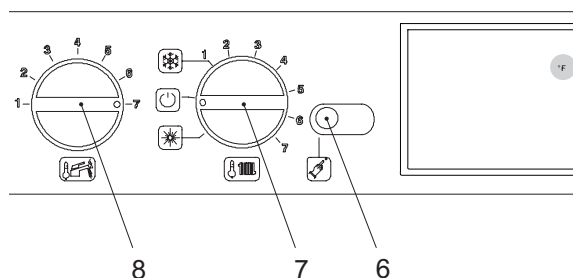


Figure 5.4

## 5. Instructions For Use Cont.

### 5.5 Central Heating Circuit Temperature:

- 1 Turn the selector 7 as in Figure 5.5.
- 2 The output temperature of c.h. water is adjustable from a minimum of about 100 °F to a maximum of about 185 °F (Figure 5.5), by turning the knob 7.
- 3 The LCD display shows the sequence in Figure 5.6.
- 4 Adjustment of the boiler temperature alters the gas flow at the burner according to the thermal demand in the system. So it is usual to see the burner lit at the minimum level for more or less long periods.
- 5 Adjustment of central heating. Output on the boiler is automatic. The greatest output is factory pre-set, however, it can be reduced according to actual system requirements. These adjustments must be carried out by a qualified person; therefore we advise you to contact your installer or Service Agent.

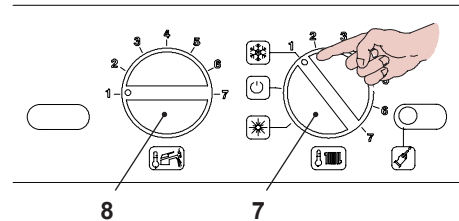


Figure 5.5

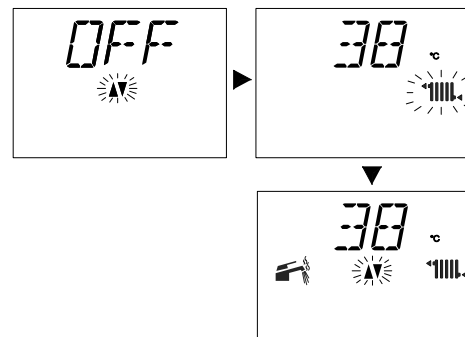


Figure 5.6

## 5. Instructions For Use Cont.

### Adjustment:

- In order to achieve optimal settings for economy and comfort, we recommend adjusting the operating temperature of the central heating water according to the outside temperature, positioning the knob as in figure 5.7.
- Your installer may have installed additional energy saving equipment and will be able to recommend the most suitable adjustment for your system.
- The LCD indicates if the set temperature has been reached.

#### **Request for heating power.**

If the boiler requests heating power, you can see the sequence on the LCD display in Figure 5.8.

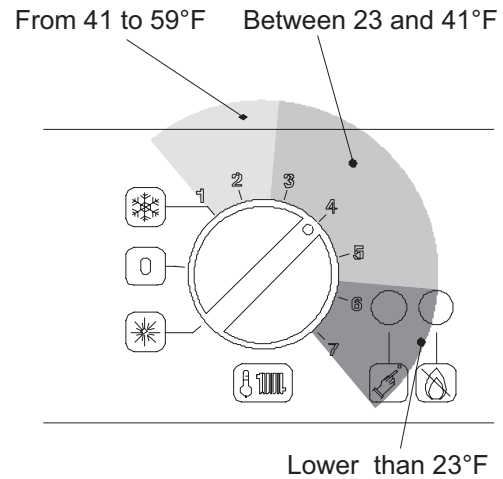


Figure 5.7

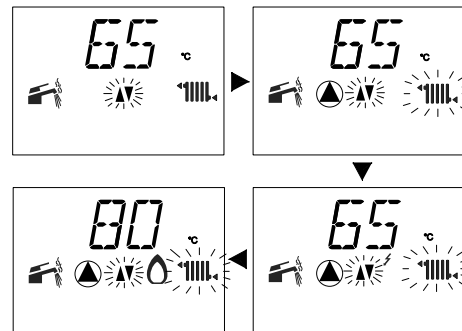


Figure 5.8

### **5.6 Extinguishing Instructions:**

- To turn the boiler off set the function selector 7 to the position shown in the Figure 5.9.
- Signal given by the LCD display Figure 5.10.
- Turn off electric power to the appliance at the circuit panel of boiler serviceman's switch.

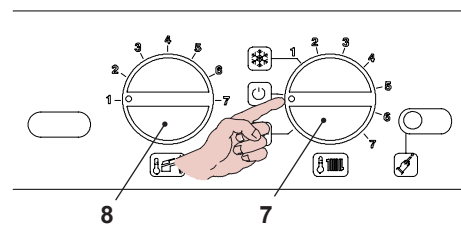


Figure 5.9

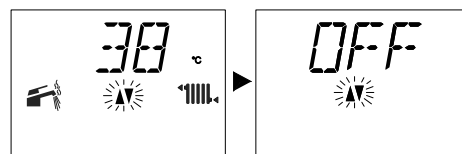


Figure 5.10

## 5. Instructions For Use Cont.

### When you expect not to use the boiler for a long period:

- Switch off the electricity supply to the boiler, by means of the circuit breaker;
- Shut off the gas supply cock connected to the gas inlet pipe and the cock connected to the supply cold water inlet pipe (see section 3.3 for pipes);
- Empty the water circuit, if necessary, as shown in the installation, operation and service instructions manual in the maintenance section.

### 5.7 Domestic hot water temperature:

#### **With the tank connected and NTC tank probe:**

The temperature of the hot water contained in the tank can only be adjusted if the tank has a specific NTC probe that detects the temperature.

The temperature of the domestic hot water contained in the tank can be adjusted to a maximum of approx. 140 °F, turning the boiler setting knob indicated in Figure 5.11.

If there is a large amount of limestone in the water, a small water softener should be installed.

To avoid any risks related to the formation of microorganisms (legionella) in the domestic hot water, activate the antilegionella function (see “Antilegionella function” on page 26 to Installer manual).

This function raises the temperature of the water in the tank to above 149 °F for a certain period of time, thereby eliminating any microorganisms in the water.

#### **With the tank connected and tank thermostat:**

The temperature of the tank serpentine delivery water can be changed by turning the boiler setting knob in Figure 5.11. For optimal tank efficiency, the knob shown in Figure 5.11 should be set to the maximum.

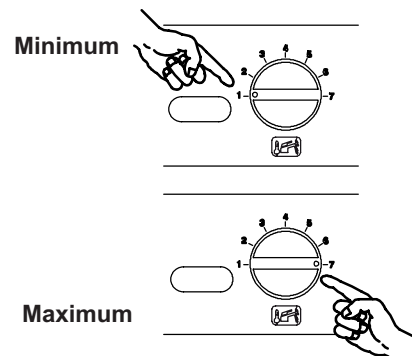


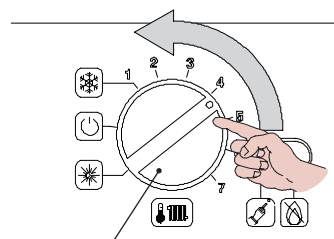
Figure 5.11



## 6. Useful Advice

### 6.1 Central Heating:

- For easy operation of the boiler, a room thermostat should be installed.
- Never shut off the radiator in the area where the room thermostat is installed.
- If a radiator (or a convector) does not heat up, check that no air is present in it and that its valve is open.
- If the ambient temperature is too high, do not alter the radiator valves. Reduce the central heating temperature instead by means of the room thermostat and the knob (7 in Fig. 6.1).



7  
Figure 6.1

### 6.2 Frost Protection:

- The built in antifreeze system protects the boiler from possible damages due to the freezing temperatures.
- This system doesn't guaranty the protection of the whole central heating system.
- In the case that the external temperature may be lower than 32 °F it is suggested to leave the system running setting the room thermostat at a low temperature.
- When the boiler is completely switched off for a long period, it is recommended to empty completely central heating circuit.

### 6.3 Periodic Maintenance:

- For efficient and continuous operation of the boiler, it is advisable to arrange maintenance and cleaning by an Authorised Service Person, at least once a year.
- During the service, the most important components of the boiler will be inspected and cleaned. This service can be part of a maintenance contract.

In particular, you are advised to have the following checks carried out:

- primary heat and domestic hot water exchanger;
- burner;
- exhaust fume duct and flue;
- pressurization of the expansion vessel;
- filling up of the central heating circuit;
- bleeding of air from the central heating system;
- general check of the appliance's operation;
- check the condensate trap.


## 6. Useful Advice Cont.

### 6.4 External Cleaning:

- Before performing any cleaning, disconnect the appliance from the electrical mains, using the dedicated circuit breaker or serviceman's switch located adjacent to the appliance.
- To clean the external panels, use a cloth soaked in soapy water. Do not use solvents, abrasive powders or sponges.
- Do not carry out cleaning of the appliance and/or its parts with readily flammable substances (for example petrol, alcohols, naphtha, etc.).

### 6.5 Operational Faults:

#### If the lock-out signal lamp comes on:

- If the boiler does not function and the LCD displays a code that starts with an **E** and the symbol  (see "General LCD features" on page 10) the boiler has shut-down.
- To restore its operation, press the reset button 6 Figure 6.2 on the boiler control panel.
- Signal given by the LCD display Figure 6.3.
- For the first light up and following maintenance procedures for the gas supply, it may be necessary to repeat the resetting operation several times so as to remove

the air present in the pipework.

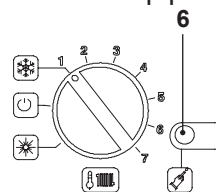


Figure 6.2



Figure 6.3

#### If noises due to air bubbles are heard during operation:

- You should check that the pressure on the pressure gauge (Fig. 5.1 on page 12) is not below the correct setting.
- If required, fill up the system correctly, as described in the section 5.2 of this manual.
- Bleed any air present in the radiators, if necessary.

#### If the pressure on the pressure gauge (Figure 5.1 on page 12) has gone down:

- It is necessary to fill up the appliance with water again, so as to raise the pressure to an adequate level as described in the section 5.2 of this manual.
- If filling up with water has to be done very frequent, have the system checked for leaks.

## 6. Useful Advice Cont.

### **If water comes out of the pressure relief valve pipe H in Fig. 6.4:**

- Check on the pressure gauge (figure 5.1 on page 12) that the pressure in the central heating circuit is not close to 2 bars (30 psi). In this case, temperature rise in the circuit can cause the pressure relief valve to open.
- So that this does not happen and to decrease the pressure to a normal value, it is advisable to vent some of the water in the appliance through the bleed valves present in the heating system.

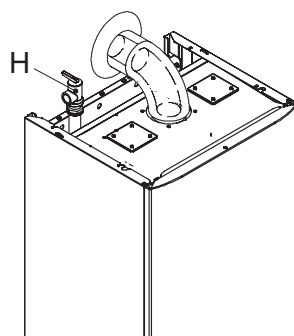


Figure 6.4

### **If water should occasionally leak from the boiler:**

- Close the cocks connected to the inlet gas pipe and to the domestic cold water inlet pipe under the boiler and call an Authorized Service Person.

**In case of problems other than those mentioned here, switch off the boiler, as described in Section 5.6 on page 15 and call a competent and responsible service person.**

## Warranty For RIVA Residential Wall Hung Gas Boilers

**FIRST 2 YEARS-WARRANTY FOR RIVA SERIES RESIDENTIAL HOT WATER BOILERS:** QHT warrants that its wall hung boiler and casing are free from defects in material and workmanship for 2 years from the date of installation. If any part on the boiler is found to be defective within this period, QHT will replace the part free of charge.

**FIRST 10 YEARS-WARRANTY FOR RIVA SERIES RESIDENTIAL HOT WATER BOILERS:** Biasi warrants that the stainless steel heat exchanger of the RIVA boilers are free from defects in material and workmanship for 10 years from the date of installation. If the stainless steel heat exchanger is found to be defective within the first 10 years after installation, QHT and Biasi will replace the stainless steel heat exchanger.

These warranties are subject to the condition that a heating contractor whose principal occupation is the sale and installation of heating equipment must have installed the boiler. PARTS, WHICH ARE COVERED, consists of all materials supplied by Biasi, identified by QHT's part numbers in its literature. Other parts supplied by the installer carry their own warranty and each manufacturer has responsibility for its own products.

**NOTE:** ANY PART, WHICH IS REPLACED UNDER WARRANTY, CARRIES ONLY THE UNEXPIRED PORTION OF THE ORIGINAL WARRANTY.

### OWNER RESPONSIBILITIES:

1. Provide for proper installation, which includes pressure relief and pressure reducing valves and high limit safety controls on closed systems.
2. Provide qualified periodic service to prolong proper operation and service.
3. Insure that boiler is installed in accordance with all codes and ordinances.
4. This warranty does not apply to boilers, which are subject to misuse, abuse, neglect, alteration, accident, excessive temperature, excessive pressure, or corrosive water or atmosphere.
5. Owner will be responsible for return of faulty components to Portsmouth, NH, freight pre-paid.

QHT and Biasi will not be responsible for:

1. Components that are part of the heating system, but were not manufactured by Biasi or QHT as part of the boiler.
2. The workmanship of the installers of RIVA boilers. Furthermore, this warranty does not assume any liability for unsatisfactory performance caused by improper installation.
3. Any costs for labor to remove or replace the faulty component.
4. Improper boiler application or adjustments, control settings, care or maintenance.
5. Any damage associated with corrosion or leakage due to the use of "non-barrier", plastic pipe in the heating system.

**\*IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY. BIASI AND QHT EXPRESSLY DISCLAIM AND EXCLUDE ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY.**

**THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.**

For prompt warranty service, notify the installer, who, in turn, will notify the distributor from whom the boiler was purchased. If this does not result in corrective action, contact Biasi through Quincy Hydronic Technology (Address Below) with details in support of the warranty claim. All claims must be processed through proper trade channels. Contact with Biasi directly is not recommended for rapid claim settlement.

Quincy Hydronic Technology Inc.,  
3560 Lafayette Road, Bldg. 2, Unit A  
Portsmouth, NH, 03801  
Tel. (603) 334-6400

---

### BIASI BOILER WARRANTY REGISTRATION

*IMPORTANT., Registration required. To gain complete warranty  
Protection, fill in and mail this card, within 1 year of installation to the address listed below*

NAME: \_\_\_\_\_ ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
BOILER SERIAL NO.: \_\_\_\_\_ DATE OF INSTALL: \_\_\_\_\_  
NAME OF INSTALL CO.: \_\_\_\_\_ ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

RETURN TO: QHT, INC., 3560 Lafayette Road, Bldg. 2 Unit A, PORTSMOUTH, NH 03801









17962.2068.0

2712

24A4

USA

