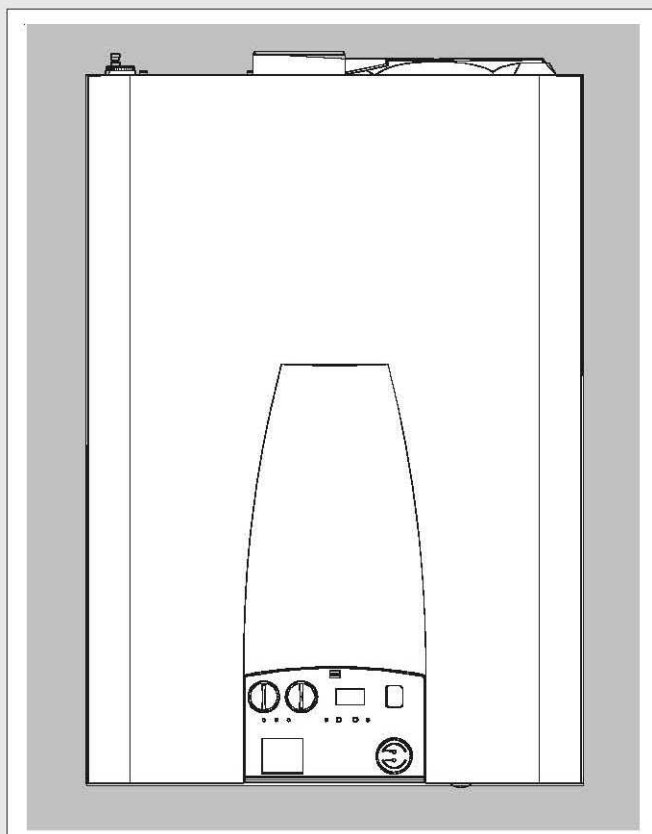


VIADRUS

VIAKON 24 B



USER'S OPERATING INSTRUCTIONS

Contents

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1 SYMBOLS USED IN THIS GUIDE

When reading this guide particular care has to be given to the parts marked with the followings symbols:



DANGER!
Indicates serious danger
for your personal safety
and for your life



WARNING!
Indicates a potentially dangerous
situation for the product and the
environment



NOTE!
Suggestions for the user

2 CORRECT USE OF THE APPLIANCE



The VIAKON appliance has been designed utilizing today's heating technology and in compliance with the current safety regulations. However, following an improper use, dangers could arise for the safety and life of the user or of other people, or damage could be caused to the appliance or other objects. The appliance is designed to be used in pumped hot water central heating systems and for domestic hot water production. Any other use of this appliance will be considered improper. VIADRUS declines any responsibility for any damages or injuries caused by an improper use; in this case the risk is completely at the user's responsibility. In order to use the appliance according to the scopes it was designed for it is essential to carefully follow the instructions indicated in this guide.

3 WATER TREATMENT



- The hardness of the mains water supply conditions the frequency with which the heat exchanger is cleaned.
- In hard water areas where the main water can exceed 15°f total hardness, a scale reducing device is recommended. The choice of this device has to be made taking into consideration the water's characteristics.
- In order to improve the resistance to lime scale, it is recommended to adjust the domestic hot water temperature as near as possible to the one you really require.
- The use of a modulating room thermostat reduces the dangers of lime scale formation.
- We recommend you to check the state of cleanliness of the domestic hot water heat exchanger at the end of the first year and subsequently, on the basis of the amount of lime scale found, this period can be extended to two years.

4 INFORMATION TO BE HANDED OVER TO THE USER (BY THE INSTALLER)



The user has to be instructed on the use and operation of his heating system, in particular:

- Hand over these instructions to the end user, together with any other literature regarding this appliance, placed inside the envelope contained in the packaging. **The user has to keep these documents in a safe place in order to always have them at hand for future reference.**
- Inform the user on the importance of air vents and of the flue outlet system, stressing the fact that is absolutely forbidden to make any alterations to the boiler.
- Inform the user how to check the system's water pressure as well as informing him how to restore the correct pressure.
- Explain the function of time and temperature controls, thermostats, heating controls and radiators, to ensure the greatest possible fuel economy.
- Remind the user that, in order to comply to the standards in force, it is necessary to inspect and service the boiler according to the current codes of practice and according to the schedule indicated in this manual by the manufacturer.
- If the appliance is sold or transferred to another owner or if the present user moves home and leaves the appliance installed, ensure yourself that the manual always follows the appliance so that it can be consulted by the new owner and/or installer.

Failure to follow the instructions indicated in this guide, which is supplied with the boiler, could cause injury to persons, animals or damage to property. The manufacturer shall not be held liable for any such injury and/ or damage.

5 SAFETY WARNINGS



WARNING!

The installation, adjustment, and servicing of this appliance must be carried out by a competent person and installed in accordance with the current standards and regulations. Failure to correctly install this appliance could cause injury to persons, animals or damage to property. The manufacturer shall not be held liable for any such injury and/or damage.



DANGER!

NEVER try to service or repair the appliance yourself. All types of servicing or repairs must be carried out by a professionally qualified person, authorized by VIADRUS; VIADRUS recommends drawing up a service contract.

Bad or irregular servicing could compromise the safe operation of the appliance, and could cause injury to persons, animals or damage to property for which VIADRUS shall not be held liable.



Alterations to parts connected to the appliance. Do not carry out any alterations to the following parts:

- the boiler
- to the gas, air, water feed pipes and electrical current
- to the flue pipe, safety relief valve and its drainage pipe
- to the constructive components which influence the appliance's safe operation



Smell of gas

If you smell gas follow these safety indications:

- Do not touch any electrical switches
- Do no smoke
- Do not use the telephone
- Close the On/Off gas service cock
- Open all windows and doors where the gas leakage has occurred
- Inform the gas society or a specialized company



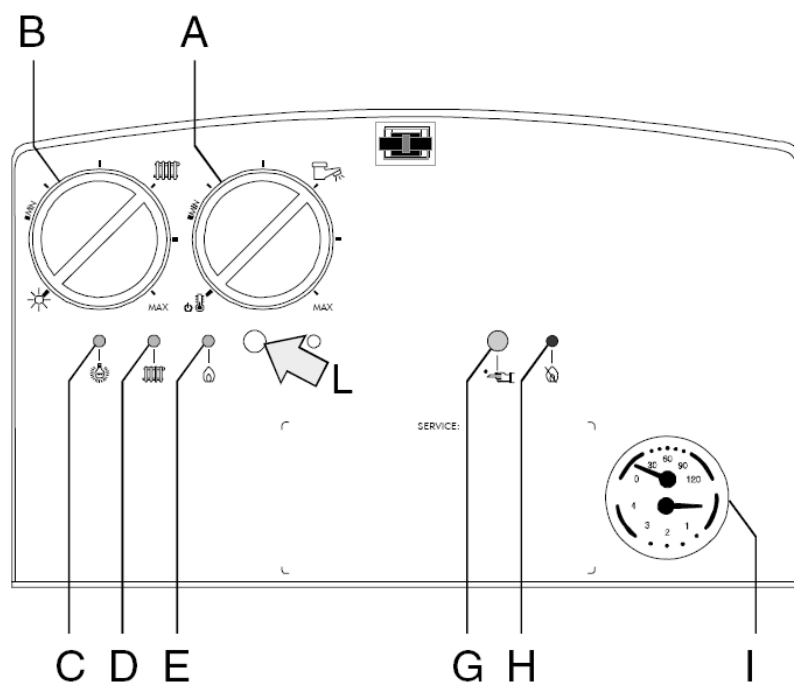
Explosive and easily inflammable substances

Do not use or leave explosive or easily inflammable material (as for example: petrol, paint, paper) in the room where the appliance has been installed.

User's operating instructions

6 OPERATING INSTRUCTIONS

6.1 CONTROL PANEL



A = Domestic hot water temperature control

B = Summer/winter selector + Central heating temperature control knob

C = Power On indicator led (Green)

D = Central heating mode indicator led

E = Burner On indicator led (Green)

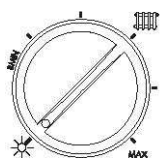
F = Not active

G = Reset /chimneysweeper mode key

H = Lock-out led indicator (Red)

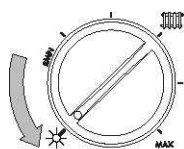
I = System temperature control/pressure gauge

Summer/winter selector + Central heating temperature control knob

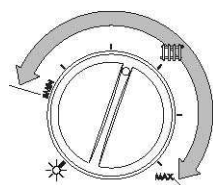


By turning this knob it is possible to choose the following operating modes:

- Summer (only DHW production)
- Winter (DHW production and central heating temperature control)

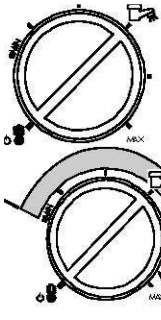


When the switch is in the ☀ (Summer) position the central heating mode is excluded. However, the frost protection mode remains enabled.




With the knob in the position indicated in the figure, the boiler is in the "Winter" mode, and controls the central heating hot water flow temperature. The temperature can be adjusted between 30°C minimum and 80°C maximum.


Domestic hot water temperature control



Through this knob it is possible to allow the preparation of the storage tank and to adjust the temperature of the domestic hot water:

With the pointer of the knob positioned in the range shown beside it is possible to adjust the temperature of the domestic hot water. The adjustment range is between a minimum of 25°C and a maximum of 60°C.

If the rotating switch is in the position , the D.H.W. circuit is not in operation (in this case no warm water is available).

If, in the mean time, the rotating switch (A) is in the position (B) , the antifreeze function of the storage tank is activated.



F button

ATTENTION!

Function not active for boilers with domestic hot water production by storage tank.

Power On indicator led



This led will illuminate when the boiler is connected to the electricity supply



Central heating mode indicator led



This led will illuminate when there is a request for central heating. If simultaneously there is a request for domestic hot water production, the led will switch off.



Burner On indicator led



When this led is illuminated it indicates that the burner is functioning correctly, both in central heating request mode and in domestic hot water production mode.



Lock-out indicator led





When this led is illuminated it indicates that the burner's safety cut-off device has shut-down the boiler.



Reset key



The function of this key is to reset correct boiler operation after the cut-off device has shutdown the boiler (red  led indicator illuminated)

 If the cut-off device operates more than 3 times, causing boiler shutdown, do not try to reset the boiler yourself. Contact your nearest VIADRUS authorized After Sales Service Centre.

User's operating instructions

Reset key with "Chimneysweeper" mode

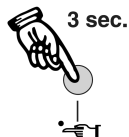


WARNING!

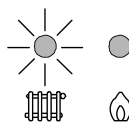
This operation can be carried out exclusively by personnel from authorized After Sales Service centres.

The user is **NOT** authorized to activate the following described mode.

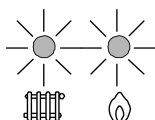
By pressing this key the "Chimneysweeper" mode is activated. This means that the boiler will be forced to operate at the maximum (or minimum) output so as to permit the adjustment operations and the combustion analysis.



By pressing this key for at least 3 seconds the boiler will operate at the maximum output (led **D** = illuminated and flashing and led **E** = constantly illuminated).



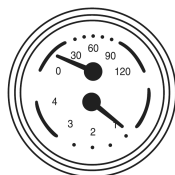
By briefly pressing this key again (<3 secs.), the boiler will operate at the minimum output (both the leds **D** and **E** flashing).



By briefly pressing this key again (<3 secs.), the boiler will operate at the minimum output (both the leds **D** and **E** flashing).

The "chimneysweeper" mode will remain enabled for 15 minutes. To disable the "**CHIMNEYSWEEPER**" mode before this set time has elapsed, press the reset/chimneysweeper key "**G**" for at least 3 seconds.

System temperature control/pressure gauge



This displays:

- on the upper scale the central heating hot water flow temperature is indicated.
- On the lower scale the water pressure in the central heating system is indicated.
- If the pressure is lower than 0,7 bar, then it will be necessary to restore the correct pressure by operating the filling valve when the system is cold and the boiler not operating

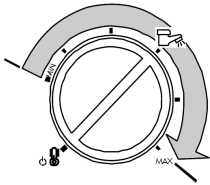
6.2 CHECK LIST BEFORE COMMISSIONING THE BOILER

Before commissioning the appliance it is recommended to check the following points:

- Check that the On-Off gas valve, positioned upstream of the boiler, is in the On position.
- Check that any On-Off valves fitted on the flow and return pipes for servicing purposes are in the On position.
- Check that any On-Off valves fitted on the cold water inlet for servicing purposes are in the On position.
- Check that the pressure relief valve drainage pipe is connected to the sewage system.
- Check that the boiler is connected to the electrical supply; the green indicator led (🔌) on the control panel must be illuminated.
- Check the heating system pressure, indicated by the pressure gauge. For correct operation the pressure should be between 0,8 and 1 bar (with the pump not running). If the pressure falls below 0,7 bar restore the correct pressure by regulating the filling valve when the system is cold and the boiler not operating (refer to paragraph 6.5).

6.3 BOILER OPERATION

Domestic hot water production



Position the domestic hot water control knob (A) to the desired DHW temperature

- with the knob turned at 10% to the left = 25°C
- with the knob turned completely to the right = 60°C



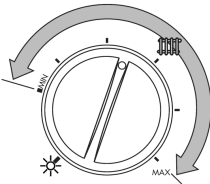
Note:

By adjusting the DHW temperature at a temperature very close to the one actually used will avoid mixing hot water with cold water, thus resulting in fuel savings and a significant reduction in lime scale formation.

In this case, the boiler will fire until the water contained in the tank has reached the desired temperature, set via the knob "A".

When a tap or shower is turned on the appliance will provide domestic hot water at the desired temperature.

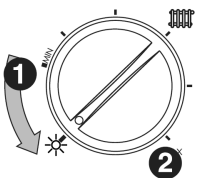
Domestic hot water production



For the operation in heating mode the knob (B) must be positioned in the range as shown in figure.

- the knob pointer in position 1 corresponds to the minimum temperature of 35°C
- the knob pointer in position 2 corresponds to the maximum temperature of 80°C

SWITCH OFF OF THE BOILER




Deactivation of heating mode

By rotating the knob (B) completely to the left the heating is deactivated, but the D.H.W. mode remains active (Summer mode).

Complete boiler shut down

If the boiler is completely shut down, the CH and DHW mode will be completely disenabled.

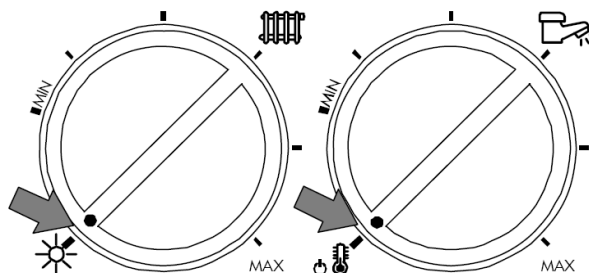
To completely shut down the boiler, switch off the electrical supply to the boiler (the green "Power On" led  is not illuminated).

If the boiler will remain shut down for a longer period, turn the On/Off gas cock into the Off position and, if fitted, turn the cold water supply cock into the Off position.

In the case of long periods of inactivity of the boiler close the gas and water gate valves. Remember that the installation of this boiler, as well its maintenance, must be performed by authorised and trained personnel. All these activities have to be recorded on the log book of the installation, as per local regulations.

User's operating instructions

6.4 FROST PROTECTION MODE



The boiler is fitted with a frost protection system which will operate automatically when the system temperature falls below 6°C: the burner is automatically fired and the pump is energized until the system's water temperature has risen to 16°C.

If the temperature detected by the CH sensor falls below 2°C, burner operation is automatically stopped until the temperature has risen to 5°C.



WARNING!

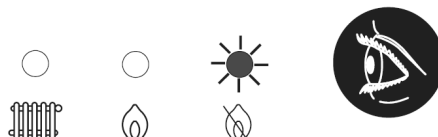
This feature will operate only if the electrical supply to the boiler is On (green Power On led illuminated). However, further frost protection can be incorporated by using specific frost protection products, suitable for multi-metal systems. **Do not use anti-frost products for motor vehicles because they could seriously damage the water gaskets.**

If, for any reason, there is no gas or electrical supply, the above described frost protection mode will not be active.

6.5 ELIMINATING THE FAULTS

If the boiler goes into lock-out the user can reset the boiler only in the following cases:

Lock-out led illuminated and flashing



Cause:

Insufficient water pressure in the central heating system.

Elimination of the fault:

Restore the correct pressure value by regulating the boiler's filling valve (for correct boiler operation the pressure should be between 0,8 and 1 bar). When the correct pressure value has been reached the led will switch off automatically and normal boiler operation will be restored.

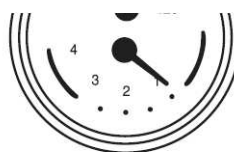


DANGER!

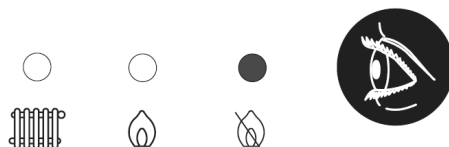
If the system has to be frequently restored please contact an authorized VIADRUS After Sales Service Centre.



Filling cock



Burner lock-out led constantly illuminated



Cause:

The burner's lock-out device has intervened due to:

- no gas supply (in this case check that the gas service cock is open)
- presence of air in the piping (if it is a new system or after a long inactivity of the boiler).

Elimination of the fault:

Check that the gas service cock is in the On position and that the air present in the piping has been vented. Press the reset key to restore correct boiler operation.

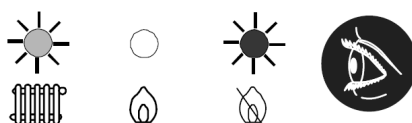


If the cut-off device operates repeatedly (a maximum of 3 times), causing boiler shutdown, do not try to relight the boiler your self. Contact your nearest VIADRUS authorized After Sales Service Centre.



WARNING:

If the boiler goes into lock-out and/or the leds continue to flash repeatedly or remain illuminated do not try to reset the boiler yourself. Contact your nearest VIADRUS authorized Afters Sales Service Centre.



User's operating instructions

7. INSTRUCTIONS FOR DISPOSAL OF PRODUCT AFTER ITS SERVICE LIFE EXPIRATION

VIADRUS a.s., is contractual partner of firm EKO – KOM a.s. with client number F00120649.

The packages comply with EN 13427.

We recommend to dispose the packages in the following way:

- plastic foil, cardboard cover, use a salvage point
- metal strapping tape, use a salvage point
- wooden base, is designated for a single usage and no longer can be used as a product. Its disposal is subject to Act. 477/ 2001 Sb. a 185/2001 Coll.as amended.

Because the product is manufactured of common materials we recommend to dispose them in the ways as follows:

- exchanger (aluminum alloy) - through a firm dealing with waste collection and disposal;
- piping, shell - through a firm dealing with waste collection and disposal;
- other metal parts - through a firm dealing with waste collection and disposal;
- MIRELON insulation material, through a firm dealing with waste collection and disposal.

In case that the product has lost its serviceability you can take advantage of product "take back service" (if this is established); in case that the originator has declared that it is a scrap it must be handled according to the valid legislation of relevant country.

8. GUARANTEE AND LIABILITY FOR DEFECTS

VIADRUS a.s. provides the guarantee for boilers 24 months after the boiler putting into operation, but maximum 30 months after the date it was dispatched from the manufacturing factory.

The manufacturer requires for the guarantee applicability:

- **In the meaning of the Act No. 222/94 Coll. "On conditions for business activities and government administration execution in certified branches, and on Government Energy Inspection: and ČSN 38 6405 amendment 1 5/99, EN 1775, to perform periodically 1 x year a gas boiler inspection. Inspections may only be performed by an authorized organization (contractual service providing organizations), accredited by the manufacturer VIADRUS a.s.**
- **To document all records of carried out guarantee and after-guarantee repairs and regular annual inspections in the annex to the guarantee certificate enclosed to this manual.**

Every defect must be announced immediately after having been found out and always in writing on the basis of an telephonic agreement.

If the above instructions are not observed then the guarantees provided by manufacturer will not be acknowledged

The manufacturer reserves the right to make changes within the product innovations that needn't be included in this manual.

The manufacturer isn't responsible for damages caused by using the product in a discordance with conditions stated in this operation manual.

The guarantee does not apply to:

- **Faults caused by improper assembly and improper attendance of the product and faults caused by improper maintenance**
- **Faults and damage caused by failure to observe water quality in heating system or by using the anti-freeze mixture**
- **Faults caused by failure to observe instructions stated in this manual**
- **Products damaged during transport or by other mechanical damage**
- **Defects caused by an inconvenient way of storing**

Information for customer

Packaging identification	Assessment reference
PE Plastic sacks, folie, corrugated board, iron and plastic fix line	

Identification of principal materials used. Paper, Polyethylene, iron, wood

Part 1: Summary of assessment

Standard/Report	Assessment requirement	Claim	Note
1.1 Prevention by source reduction		YES	
1.2 Heavy metals and	ensure below maximum permitted levels for components (CR 13695-1)	YES	
1.3 Other noxious/hazardous substances	ensure in compliance with (ČSN 77 0150-2, EN 13428)	YES	
2 Reuse	ensure reusability in all terms of the standard for the functional packaging unit (EN 13429)	NO	
3.1 Recovery by material recycling	ensure recyclability in all terms of the standard for the functional packaging unit (EN 13430)	YES	
3.2 Recovery in the form of energy	ensure that calorific gain is achievable for the functional packaging unit (EN 13431)	YES	Iron - NO
3.3 Recovery by composting	ensure compost ability in all terms of the standard for the functional packaging unit (EN 13432)	NO	

NOTE	Conformity with EN 13427 requires affirmative responses to sections 1.1; 1.2; 1.3 and to at least one of 3.1; 3.2; 3.3. In addition, where a claim of reuse is made section 2 should also record affirmative responses.
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Part 2: Statement of conformity

In the light of the assessment results recorded in part I above, this packaging is claimed to comply with the requirements of EN 13427.

VIADRUS

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The producer declines every responsibility for the possible inaccuracies if owed to errors of transcript or press.
Also reserves the right to bring those changes that will hold necessary to it own products or profits, without jeopardizing its essential characteristics.