VIADRUS

# VIAKON 18
# VIAKON 24
# VIAKON 24P

## USER´S OPERATING INSTRUCTIONS

00333177 17/2013

# Contents

## CONTENTS



## 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

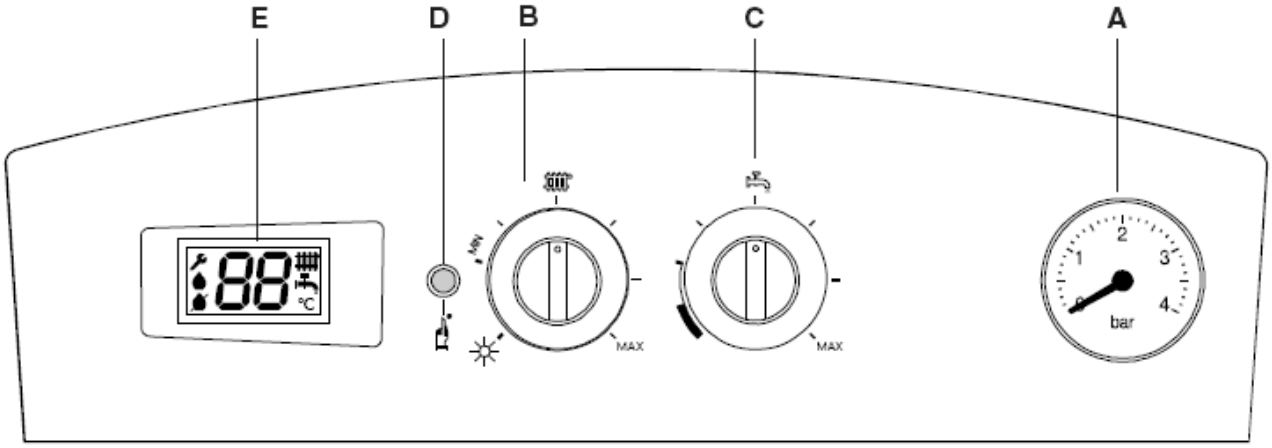
**Smell of gas**
If you smell gas follow these safety indications:

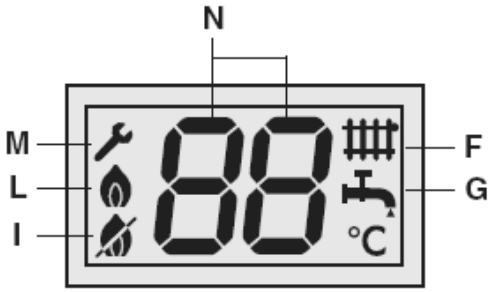
- Do not touch any electrical switches
- Do no smoke
- Do not use the telephone
- Close the On/Off gas service cock
- Open all windows and doors where the gas leakage has occurred
- Inform the gas society or a specialized company

**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.

# 6 OPERATING INSTRUCTIONS

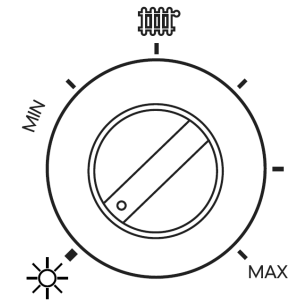
## 6.1 CONTROL PANEL



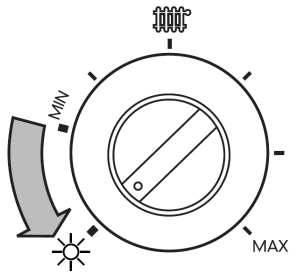

*A = Manometer*
*B = Summer/Winter switch + Heating temperature controller*
*C = D.H.W. temperature controller*
*D = Push button for RESET/CALIBRATION/DIAGNOSTICS*
*E = Display*
*F = Symbol indicating a heating request*
*G = Symbol indicating a D.H.W. request*
*I = Symbol indicating a burner lockout*
*L = Symbol indicating burner in operation*
*M = Symbol indicating an error presence*
*N = Digits indicating boiler temperature or error code*

### *Summer/Winter switch + Heating temperature controller*

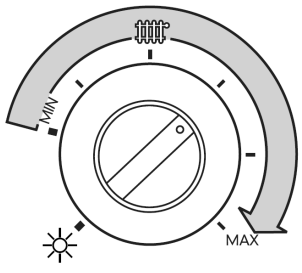



Through this knob it is possible to select the operation mode:·

- Summer (D.H.W. production only)·
- Winter (Heating and D.H.W. production)



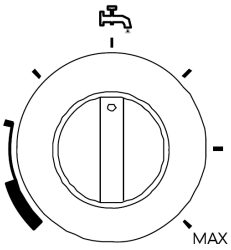

The pointer of the knob in Summer position means that the boiler does not supply any heating (in any case the anti-frost protection saving. remains active).



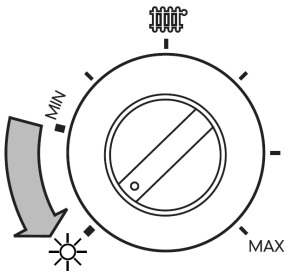

With the pointer of the knob within the range shown beside, the boiler is in Winter mode and controls the heating water temperature, which can be adjusted between a minimum of 30°C and a maximum of 85°C.

## D.H.W temperature controller

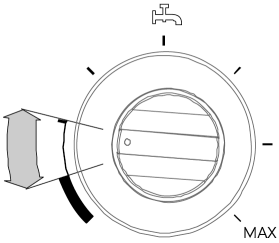
In the VIAKON R models this function is active only if the boiler is connected to an external D.H.W. storage tank.




Through this knob it is possible to adjust the temperature of the D.H.W.

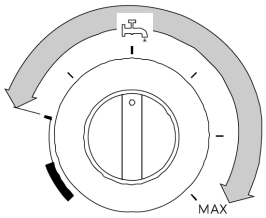



With the pointer of the knob within the range shown beside, the D.H.W. temperature is 38°C.



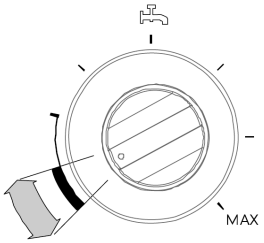

### *Function "ECO-COMFORT"*

With the pointer of the knob within the range shown beside, there is the activation of the function ECO-COMFORT, which assures a drawing of D.H.W. at 38°C with the best energy




### *Function "COMFORT"*

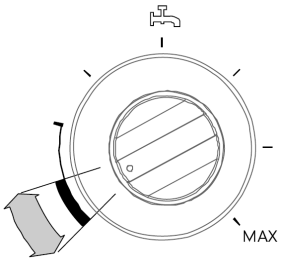
The D.H.W. temperature can be adjusted between a minimum of 38°C and a maximum of 60°C.




### *HOLIDAYS*

If the boiler is not controlled by a modulating chrono-thermostat, during Holidays period the pointer of the knob has to be positioned within the range shown beside.
NOTE In the VIAKON R models, not connected to an external
D.H.W. storage tank, the pointer of the knob has to be positioned as shown beside.

**NOTE**
**In the VIAKON 18 and 24 models, not connected to an external D.H.W. storage tank, the pointer of the knob has to be positioned as shown beside.**



# User's operating instructions

### Indication of burner in operation

This symbol indicates the burner is in operation. The symbol is shown when the boiler receives a heat request for C.H. or D.H.W. production.

### Operation in Heating mode

The symbol is shown when the boiler receives a heat request for C.H. If, at the same time, there is a heat request also for D.H.W. production this symbol is switched off.

### Operation in D.H.W. mode

The symbol is shown when the boiler receives a heat request for D.H.W. production

### Burner Lockout indication

This symbol is shown when the burner is put in lockout by the burner control, due to:· Lack of gas· Lack of ignition. In the first case, in which none ignition took place, ascertain the gas cock is open.

### Fault indication

This symbol is shown when there is a fault within the boiler.

1. If the fault does not cause the stop of the boiler operation, to have the error code shown on the display, it is necessary to press the reset button (D); in case the boiler is in stand-by the error code is shown also without pressing the reset button.
2. If the fault causes the stop of the boiler operation, the error code is shown flashing on the display.

### Reset button

By pressing this push button, it is possible:·

- To restart the boiler after a lockout due to the burner control, which has lit, on the display, the symbol
- To have the error code shown on the display if the boiler operation was not stopped by this fault.·
- To activate the special function for calibration.
- To enter the Service Menu and select the parameters.

### Thermometer

It shows the boiler or the DHW temperature.


If, on the display, the symbol ( ), is shown, the temperature is the one of the heating circuit.


If, on the display, the symbol ( ) is shown, the temperature is the one of the DHW circuit.

### Manometer


It shows the water pressure of the heating circuit; the value of such pressure has to be equal or higher than 0,8/1 bar(in cold conditions). If the pressure is below 0,8/1 bar the boiler operation is inhibited and it is necessary to restore the correct value acting on the filling cock. This operation has to be performed when the heating circuit is cold.

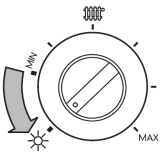
## 6.2 CHECK LIST BEFORE COMMISSIONING THE BOILER

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

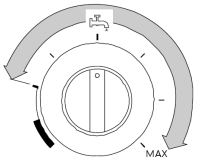
- Check that the On-Off gas valve, positioned upstream of the boiler, is in the On position.
- Check that any On-Off valves fitted on the flow and return pipes for servicing purposes are in the On position.
- Check that any On-Off valves fitted on the cold water inlet for servicing purposes are in the 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 display on the panel board has to 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

### D.H.W. production (Summer mode)




Make sure the selector (B) is in position ( ☼ ).



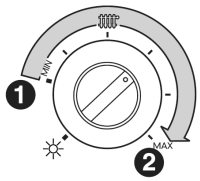

Position the D.H.W. temperature adjusting knob (C) on the desired temperature: **COMFORT** between 38 and 60°C, **ECO-COMFORT** or **ECO**.

***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 of lime scale formation.***

When opening a D.H.W. tap the boiler will start automatically in order to supply water at the desired temperature.


During all the phase of D.H.W. drawing, on the display the actual D.H.W. temperature and the symbol ( ) are shown.

### C.H. mode (Winter mode)




In order to have the boiler operating for C.H. purposes, the pointer of the knob (B) has to be positioned between 1 (minimum temperature) and 2 (maximum temperature).

If the C.H. installation is equipped with a Room thermostat, position the pointer of the knob (B) in an intermediate position.


During the operation in C.H. mode, on the display the actual boiler water temperature and the symbol ( ) are shown.

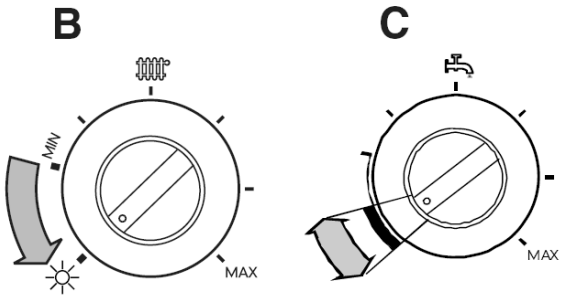
### Put out of operation

In order to put completely out of operation the boiler cut the power supply to the boiler through the external main switch.

In case of long periods of inactive state of the boiler close also the gas and cold water cocks.

## 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.
**To activate the anti-frost protection position the pointer of knobs (B) and (C) as shown below.**

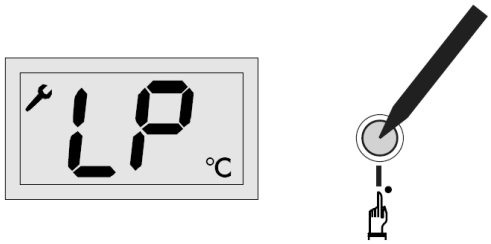



**WARNING!**
This feature will operate only if the electrical supply to the boiler is On. However, further frost protection can be incorporated by using specific frost protection products, suitable for multi-metal systems. **Do not use anti-frost products for motor vehicles because they could seriously 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 FAULT SOLUTION

When the boiler shows an light anomaly the symbol ( ) starts flashing on the display, beside the boiler temperature.
When the boiler shows a permanent fault the symbol ( ) starts flashing beside the error code, which has taken the place of the boiler temperature.


If the fault is a blocking one or if the boiler is in stand-by the code that identifies the cause is shown instead of the temperature (for the fault list see paragraph. 5 - "error codes" of the installation manual).




The user can intervene and restore the operation of the boiler only in presence of the following codes:·

- LP (boiler water pressure too low)·
- — (burner lockout)

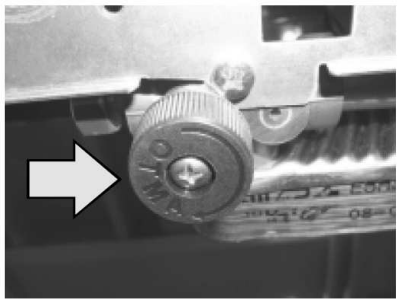
With all the other error codes the user is NOT AUTHORIZED to try to restore the boiler operation.
He has to address him self to an VIADRUS authorized after sale service.

## Error code:


Meaning:
Too low water pressure in the C.H. circuit .

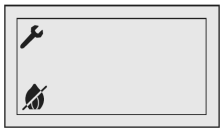
**Elimination of the fault:**
Restore the correct pressure value by regulating the boiler's filling valve (for correct boiler operation the pressure should be between 0,8 and 1 bar). When the correct pressure value has been reached the led will switch off automatically and normal boiler operation will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

**Filling valve**



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

---



## Error code:

**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.**

## 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 (aluminium 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. |
|---|

**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

VIADRUS a.s.
Bezručova 300, 735 81 Bohumín
Tel.: +420 596 083 050 / Fax: + 420 596 082 822
www.viadrus.cz / info@viadrus.cz



CE