

# *Operating Manual*

Software Version 1.01



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## 1. FIRST STEPS

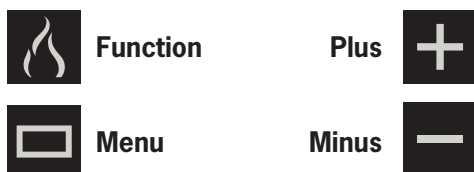
The Rikatronik4 control is regulating the combustion of your wood automatically. By controlling the air supply the stove is operated in the optimum temperature range, the emissions are reduced to a minimum. In addition, the automatic control system ensures optimum efficiency. The display always provides information that will make the operation of the stove comfortable for you.

Plug in the power cord and press the power switch at the rear of the stove. On the display the stove type and software version will be displayed for 2 seconds.

During the control is checking the components of the stove, **WAIT** will be shown on the display. This may take up to 4 minutes. After successful verification, the display changes to the set time.

The stove can now be heated.

The user board of Rikatronik4 consists of the display and 4 Buttons.



### Tip

The power saving function will switch off the backlight of the display panel completely. The next key touch will only activate the backlight, only after that the buttons get back their original function!

### Note

For devices with Rikatronik4 (electronic air control) the adjustable damper flap of the flue pipe must always be open during heating! Danger of Deflagration!

### Note

A safe lighting is guaranteed only with the original RIKA Firelighters. Damage caused by improper handling or by using other than recommended lighters are excluded from the guarantee.

### Tip

You can order the lighter with the number E15718 at your RIKA dealer.

### Note

Certain functions are only possible with cold stoves (automatic ignition, fully closing the air flaps ...). The display **HOT** with red backlighting indicates an unsupported function in current operating mode.

### Note

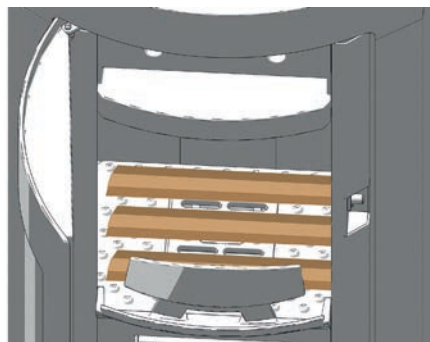
Certain functions are only available if the combustion chamber door is closed (automatic ignition, fully closing of the air flaps ...). The display **DOOR** with red backlighting indicates the open door.

## 2. OPERATION

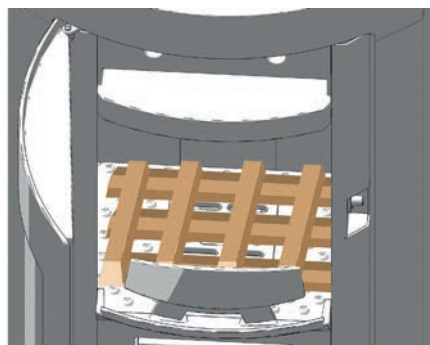
### Heat up

Clean the grate in the firebox and the ignition support underneath from ash and combustion residues (see CLEANING AND MAINTENANCE). Due to this cleaning, the path for the primary air in the firebox is free, which is required for the starting phase.

Open the firebox door and place small pieces chipboard on the bottom of the stove.



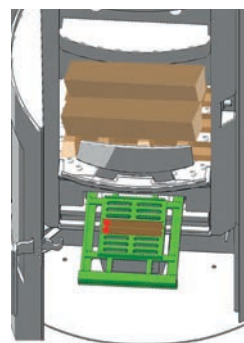
On top of this first layer settle on other chipboards crosswise.



Put two pieces of log wood on top of it (see QUANTITY OF FUEL AT NOMINAL LOAD).

Pull out the ignition support which is placed under the grate. Insert 2 ribs of the firelighter with the firing head to the left in the designated recess of ignition support.

If you have no chipboard available, use an entire block (8 ribs) to ignite the logs.



### Note

For a successful ignition process dry logs and a sufficient chimney draft is required.

### Note

The lighter must always be inserted with the firing head to the left.

Slide in the ignition support again until it locks into the stove and close the combustion chamber door, **CHECK** appears on the display.

To start the automatic ignition, press and hold the function key until the display changes to **IGNIT**.

### Tip

Within 10 seconds, the automatic ignition can be cancelled by holding the function key (until the time is shown again on the display).

## Heat

Once a sufficiently high temperature rise has been detected after the heat-up or refilling, the display changes to **BURN** and the combustion is automatically controlled.

## Reload

The optimal time to reload the stove towards the end of the burn-down phase is indicated by a **red flashing** display.

The **red flashing** phase will appear, depending on environmental influences, between 5-10 minutes. After reloading and closing the stove door, the display changes to **CHECK**.

With sufficient temperature increase, the display changes back to **BURN** and the combustion is again automatically controlled.

### Note

If the display is not changing from IGNITE / CHECK to BURN within a certain period after closing the combustion chamber door, the heating up or reloading failed. So the required increase of the combustion chamber temperature has not been reached. For a further heating, a new starting process must be carried out.

## Burn out

If during the **red flashing** phase the stove is not refilled, the combustion chamber is cooled below the necessary temperature for refilling the combustion chamber. The set time will be displayed again.

## 3. SPECIAL FEATURES

### Child lock

To avoid an accidental start-up a child lock can be set up with a simple key combination. If you press the plus button and menu more than 2 seconds at the same time, the display indicates **LOCK** for a short time. The operation of the keys is no longer possible, every keystroke is rejected again on the display with **LOCK**. Press the combination Plus and Menu again longer than 2 seconds. The display UNLOCK appears for a short time and the key lock is cancelled.

### Fully closing of the air flaps

The Rikatronik4 has a safety device that prevents the air flaps from closing completely during heating (deflagration). If the stove is not in operation, warm air can escape through the chimney. A complete closure of the air flaps can prevent this.

- Make sure that the stove is cool and the combustion chamber door closed.
- Keep the minus key pressed until **CLOSED** is displayed. The display backlight flashes while flaps are closing.

When the flashing stops, the air flaps are closed completely. The stove can be switched off or the mains plug be pulled.

#### The flaps automatically open again if

- the combustion chamber door is opened (with main power connected).
- an programed ignition time is reached (with main power connected).
- the power supply is restored.

### Note

From this point, no more wood should be refilled, because the lighting of the new wood can no longer be guaranteed. A new fire lighting must be carried out.

## ECO-mode

After the first automatic burn cycle a heating mode with lower heat output is possible. (see QUANTITY OF FUEL AT PARTIAL LOAD)

If you press the function key after refilling (during **CHECK** is displayed), the display changes to **ECO** and Eco-mode is active.

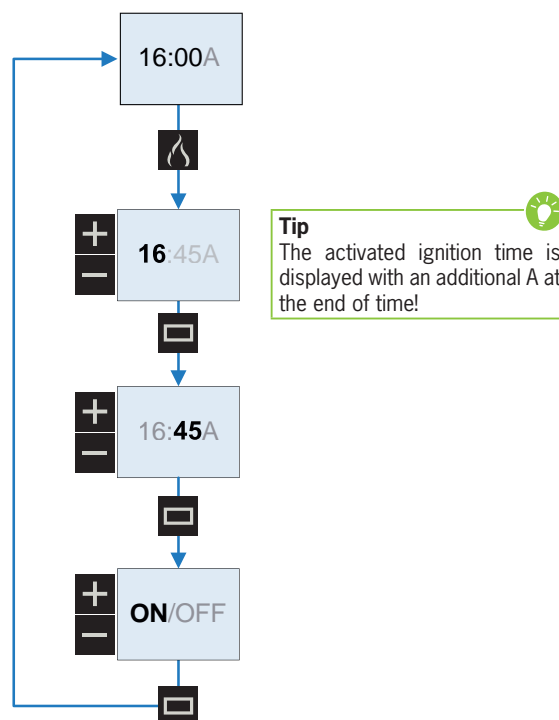


In this mode, the combustion with a lower amount of fuel is also controlled optimally.

Pressing the function key or by opening / closing the firebox door the **ECO** changes back to **BURN** and the normal regulation is active again. The Eco-mode must be activated again after each refilling.

## Ignition Timer

This function allows a time-shifted automatic ignition within the next 24 hours.



By pressing the ON / OFF button the programed ignition time can be activated or deactivated.

Upon reaching the programed ignition time the ignition process is started automatically. The display changes to **IGNIT**, the following combustion is controlled fully automatically.

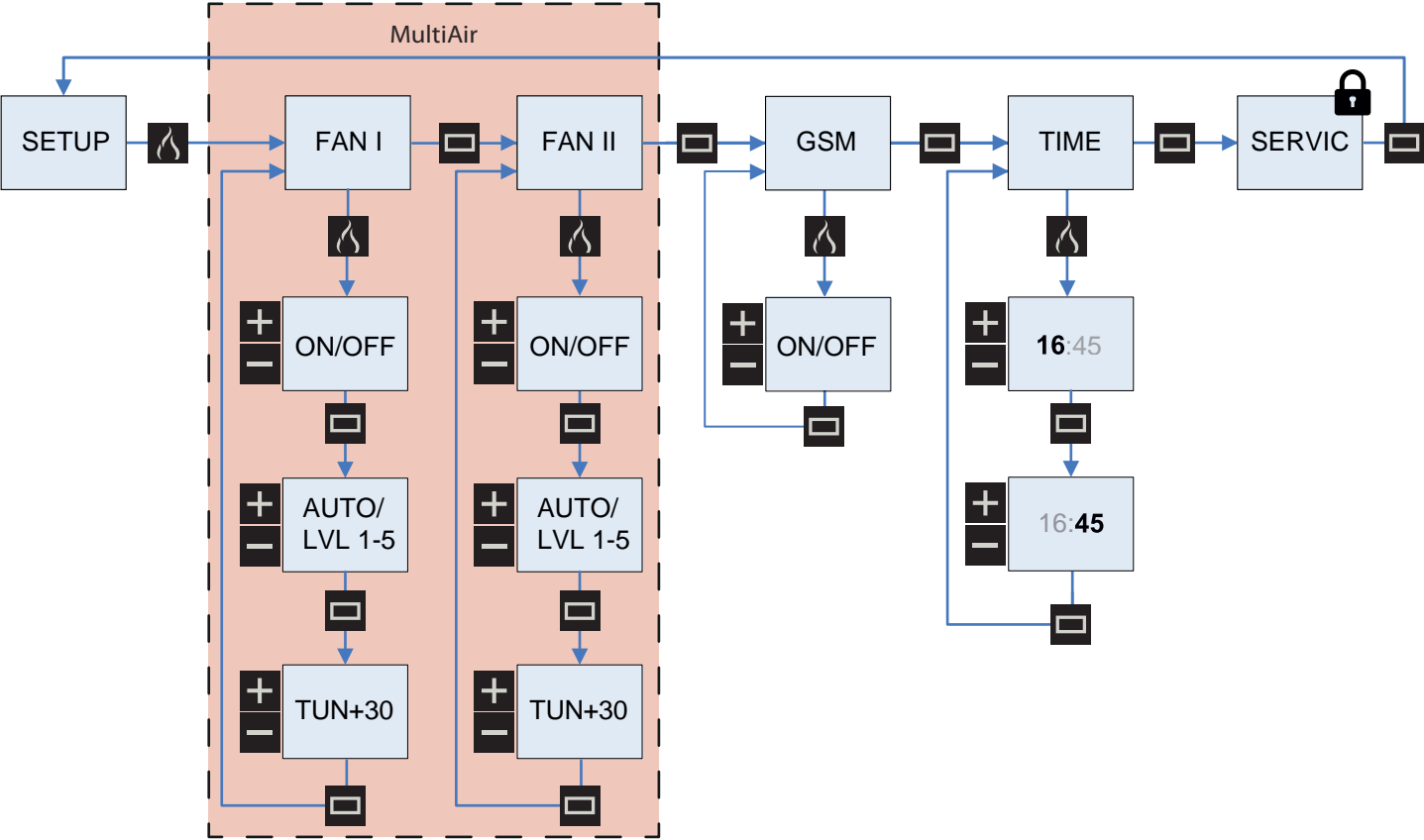
After each ignition, the programed ignition time has to be activated again.

### Note

Please note that at the time of automatic ignition, a sufficient chimney draft must be ensured. In a multiple use of the chimney, an automatic ignition with the Rikatronik4 may only be carried out under the supervision of the operator.

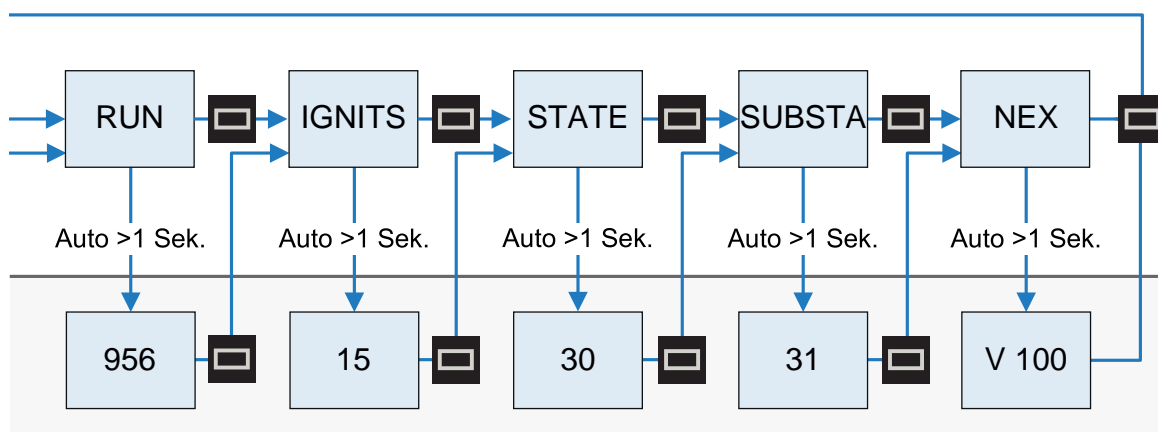
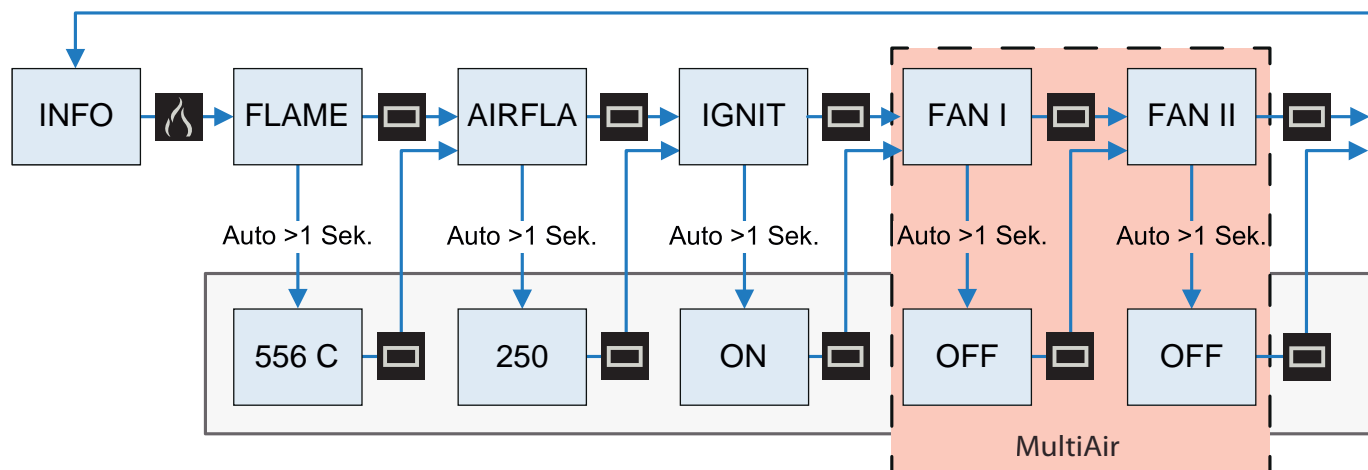
*Main menu*

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**Tip**  
Only built-in stove components are displayed in the menu. Therefore the shown menu may differ from those in your stove.










<b>Fan I</b>	You can switch the convection FAN I on or off, adjust the fan speed (speed 1-5 and the recommended auto-speed) and use a fan speed correction Function (plus / minus 30%).
<b>Fan II</b>	Fan II (see Fan I)
<b>GSM</b>	You can switch the GSM-function on or off. The GSM-Modem is to be ordered seperately.
<b>Time</b> The change to daylight saving time is not automatic!	Time setting, set the flashing digit with the plus or minus button, proceed with the Menu button.
<b>Service</b>	This menu item is only accessible for your service technician.



**Tip**  
Only built-in stove parts are displayed in the menu. The positions shown can therefore differ from the menu in your stove.

<b>FLAME</b>	Current combustion chamber temperature
<b>AIRFLA</b>	Current air flap position
<b>IGNIT</b>	Display if ignition is active
<b>FAN I</b>	Display if convection fan 1 is active
<b>FAN II</b>	Display if convection 2 is active
<b>RUN</b>	Display the previous operating hours
<b>IGNITS</b>	Display the previous number of ignitions
<b>STATE</b>	Current status of the main state
<b>SUBSTA</b>	Current status of the sub state
<b>NAME OF THE STOVE</b>	Display Software Version

## 5. STATUS DISPLAY

Display	Meaning	Possible reaction
	The test of the internal components is active (after each power-up and after a power failure).	Just wait. Do not heat the stove until the display changes to the set time.
	Display of set time.  The combustion chamber is cold and the stove is in Standby state.  The combustion chamber temperature has dropped below the predetermined refill temperature.	Perform fire lighting.  A further refilling is prohibited. A new fire lighting must be carried out.
	Display the set time with activated ignition time (standby).	Disable the ignition time (see ignition time program).
	The stove checks the combustion chamber temperature after closing the combustion chamber door, the air flaps are open.	Change into the Eco mode (see Eco mode)
	The automatic ignition procedure has started.	The ignition process can be interrupted during the first 10 seconds by holding the function key.
	The stove is working in the automatic combustion control (nominal load).	Enjoy the romantic log wood fire.
	The stove is working in the automatic combustion control (partial load).	Enjoy the romantic log wood fire.
	The predetermined refilling temperature was achieved. The indicator light <b>flashes red</b> .	Open the combustion chamber door and refill log wood, or let the fire burn down.
	The indicator flashes while the air flaps are closing.  With a continuous display the air flaps are completely closed.	You can interrupt the power supply to the main switch, the air flaps remain closed.  When you open / close the combustion chamber door the air flaps are opened again, the display changes to <b>CHECK</b> .

## 6. ERRORS

### Note

The fault indicator will **flash red**.

For recurring error messages the customer service must be informed immediately!



Display	Meaning	Actions to be taken
	The automatic ignition failed.	<p>Repeat the ignition process, possibly add more chipboard or an entire block of fire lighters.</p> <p>Check chimney draft.</p> <p>Use dry wood.</p>
	The air flaps cannot be completely closed.	Check to see if anything is blocking the air flaps, check the function of the electric lifting magnet (when activated you can hear a "clack").
	<p>The combustion chamber door is open for more than three minutes during heating.</p> <p>The door contact switch is defective.</p>	<p>The combustion chamber door may only be opened briefly to refill during heating. Close the door again immediately.</p> <p>Check the function of the switch: ease of contact, audible clunk while pressing.</p>
	<p>The temperature sensor measures wrong values.</p> <p>The temperature sensor is defective.</p>	Check if the temperature sensor is very dirty or sooty and clean it carefully (see CLEANING AND MAINTENANCE).
	The air flap motor cannot reach the specified position.	Check to see if anything is blocking the air flaps.

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### Note

If an error message occurs, remove first the reason and then acknowledge the error by pressing the function button more than 2 seconds.



## 7. ADVICES

### Tip

These displays only appear briefly when you press a button or when the child safety lock was activated.



Display	Meaning	Actions to be taken
	The selected function cannot be executed because the stove temperature is too high.	Allow the stove to cool down to room temperature, then select the desired function (for example air flaps close)
	A selected function cannot be executed because the combustion chamber door is open.	<p>Close combustion chamber door!</p> <p>This should only be opened briefly to add more fuel.</p>
	The display is locked, the child-lock is activated.	<p>Press the Plus and Menu buttons simultaneously to unlock.</p> <p>The confirmation of the cancellation takes place with the short display <b>UNLOCK</b>.</p>

## 8. MANUAL OPERATION

### Power failure

During a power failure, the air supply remains unchanged, the logs in the combustion chamber burn down safely. If the mains supply is restored, stove name and software version are displayed shortly. Then the display **WAIT** (Component test - up to 4 minutes) appears.

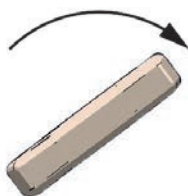
A possibly entered ignition time must be activated again.

### Manual control

#### Note

Manual operation is only allowed when the stove is off the grid. Another approach than the below mentioned may damage the components and lead to a loss of warranty.

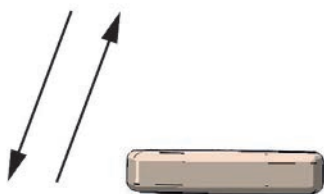
- Disconnect the stove by switching off the main power switch.
- Insert the supplied wrench in the place provided.
- Turn the wrench clockwise until you sense a stop.



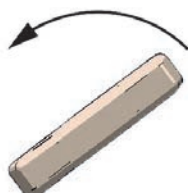
#### Note

Caution, excessive force can cause damage.

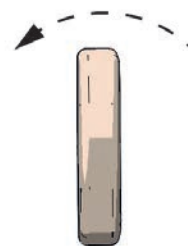
- Pull the wrench from the socket and plug it into a horizontal position again. You are in heating-up position.



- Turn the wrench a few minutes after a successful ignition phase counterclockwise in vertical position. You are now in the medium position.



- Turn the wrench counterclockwise gradually to reduce the combustion air by hand and therefore regulate the combustion process by hand.



#### Note

Always make sure that the stove has enough air for the combustion, otherwise it may lead to an increased smoke development and subsequently to a deflagration!



Technical and design changes, as well as typesetting and printing errors reserved

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Z36518\_Rikatronic4\_EN | 21.01.2016



RIKA Innovative Ofentechnik GmbH  
4563 Micheldorf/Austria, Müllerviertel 20  
Telefon: +43 7582 686-41, Fax-DW: 43  
E-Mail: [verkauf@rika.at](mailto:verkauf@rika.at)

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