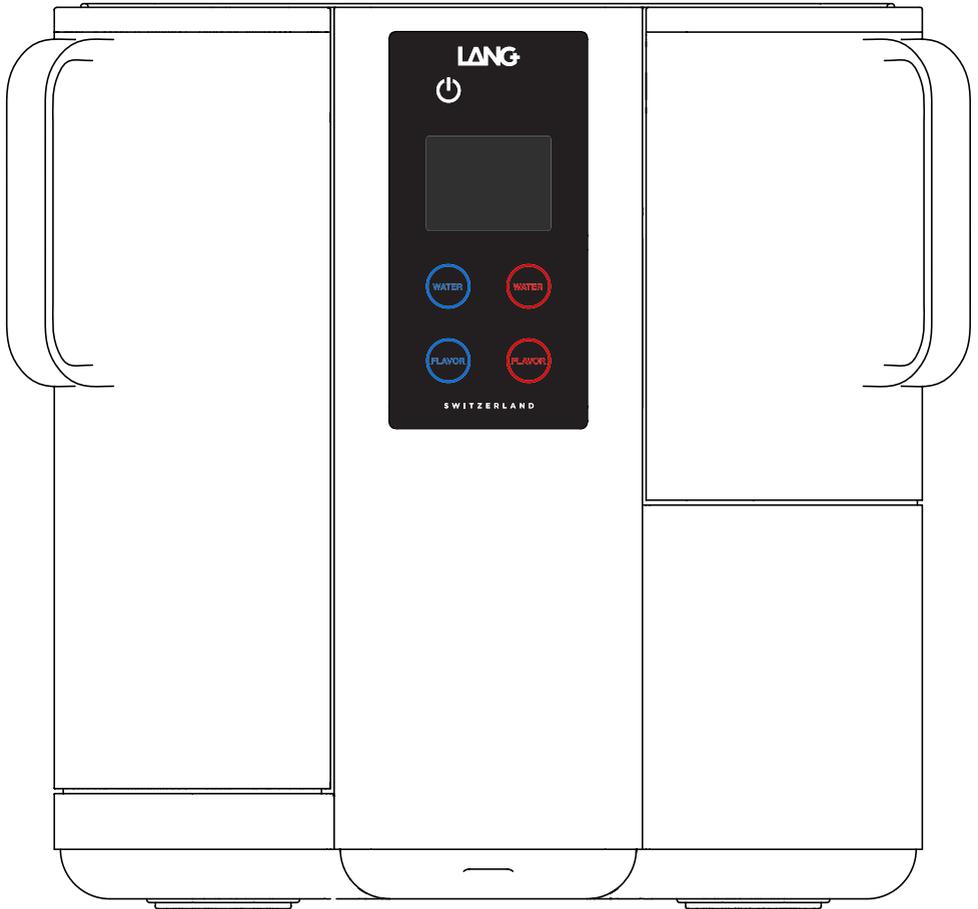


# LANG+

SWITZERLAND



## Advanced Drinks System / ADS1

**WATER FILTRATION**

INCLUDING

REVERSE OSMOSIS, RE-MINERALISATION, HOT OR COLD WATER + INSTANT BEVERAGES





**CAUTION: WHEN YOU SEE THIS SIGN, PLEASE REFER TO THE SAFETY PRECAUTIONS TO AVOID HARM AND DAMAGE**

## Avoid risks of fatal electric shock and fire

1. Only plug the machine into suitable, earthed mains connections. Make sure that the voltage of the power source is the same as that specified on the rating plate. The use of an incorrect connection voids warranty.
2. If an extension cable is required, use only an earthed cable with a conductor cross section of 1.5mm<sup>2</sup>.
3. Do not pull the cable over sharp edges, clamp it or allow it to hang down. Keep the cable away from heat and moisture.
4. If the cable is damaged, it must be replaced by the manufacturer, its service agents or similarly qualified persons, in order to avoid hazards.
5. To avoid hazardous damage, never place the machine on or beside hot surfaces such as radiators, cooking rings, gas burners, open flames or similar. Always place it on a stable and even surface.
6. Disconnect the machine when not in use for a long period of time
7. Disconnect by pulling out the plug and not the cable itself or the cable may be damaged. Never touch the cable with wet hands.
8. Never immerse the machine or part of it in water. Never put the machine or part of it into dishwasher except for the jars and trip tray. Electricity and water together is dangerous and can lead to fatal electrical shocks.
9. Do not open the machine. Hazardous voltages inside.
10. This machine can be used by children aged from 8 years and above if they have been given supervision or instruction concerning use of the machine in a safe way and if they understand the hazards involved. Cleaning and user maintenance shall not be made by children unless they are older than 8 and supervised. Keep the machine and its cord out of reach of children aged less than 8 years.
11. Risk of electric shock, avoid spillage on the cord connector on the back.

## Avoid possible harm when operating the machine

1. This product has been designed for domestic use only. Any commercial use, inappropriate use or failure to comply with the instructions, the manufacturer accepts no responsibility and the guarantee will not apply.
2. The machine is intended to filter tap water only and prepare beverages according to these instructions. This machine is intended to be used in household and similar applications such as: office kitchens, by clients in hotels, bed and breakfasts, motels and other residential type environments. Do not use the machine for other than intended use.
3. Do not use the machine if damaged or not operating perfectly. Immediately remove the plug from the power socket. Return the machine to an authorized repair centre for examination, repair or adjustment. A damaged machine can cause electrical shocks, burns or fire.
4. The machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have given supervision or instruction concerning use of the machine by a person responsible for their safety. Children should be supervised to ensure that they do not play with the machine.
5. Always close the lever on the filter cartridges and never lift during operation. Failure to do so may result in extensive water leakage.
6. When unpacking the Machine, remove all plastic foil placed on machine parts.

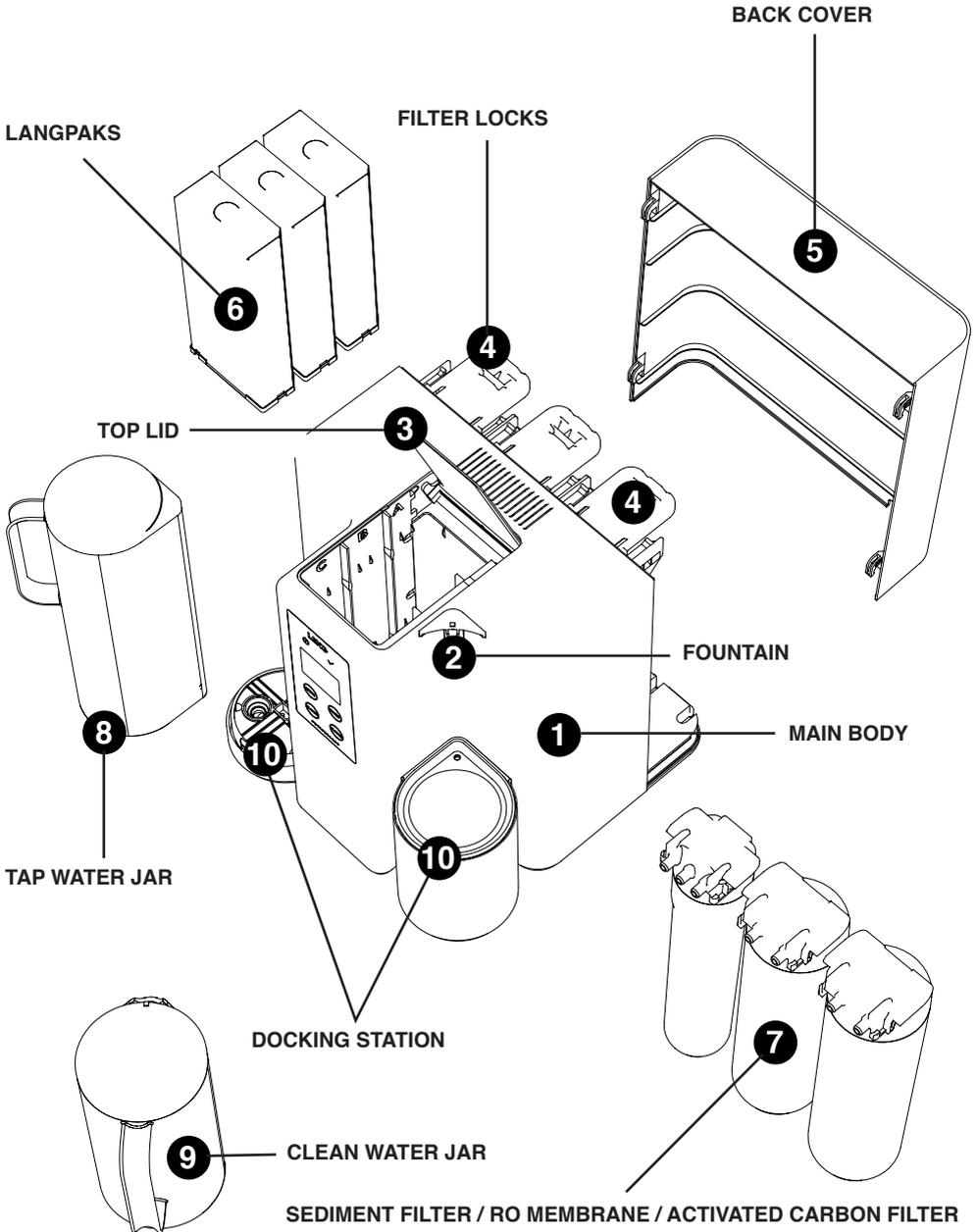
### Hot surfaces and hot beverages



Care must be taken when a jar of hot water or a cup is removed from the machine to avoid hot water spillage. Use handle on the clean water jar when removing the jar, otherwise severe scalding may occur.

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# USER MANUAL ADS1

PLEASE READ THIS USER MANUAL CAREFULLY BEFORE OPERATING THE MACHINE

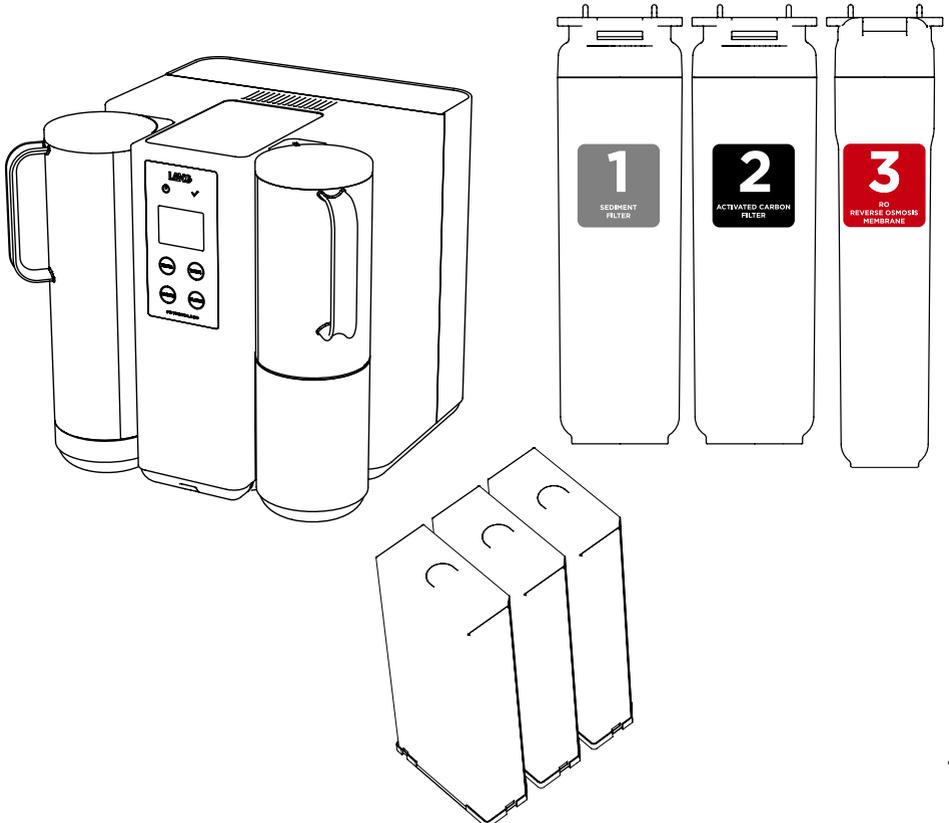
WARNING: Step 1 – 6 must be carefully followed, otherwise the machine is NOT operable

## 1 COMPONENTS

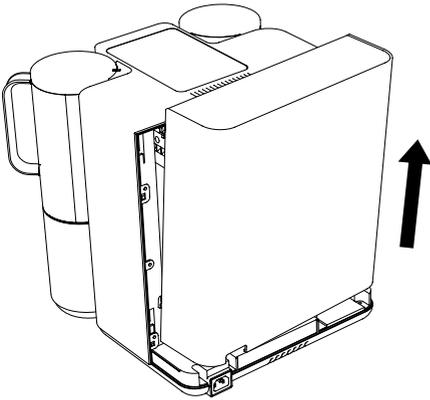
The package contains the following:

- jars (tap water jar and cover; clean water jar and cover)
- advanced drinks system machine
- 3 filter cartridges (sediment, activated carbon, RO membrane)
- power cord

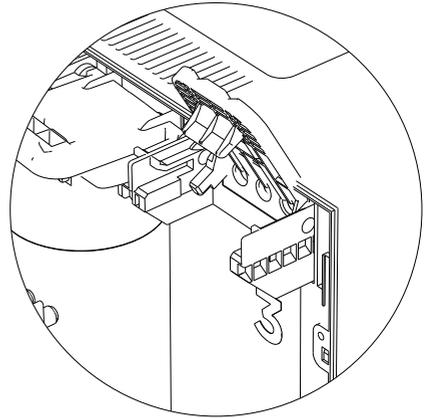
The mineral and flavor concentrate (LangPak) are shipped in a separate package and are purchased independently of the machine.



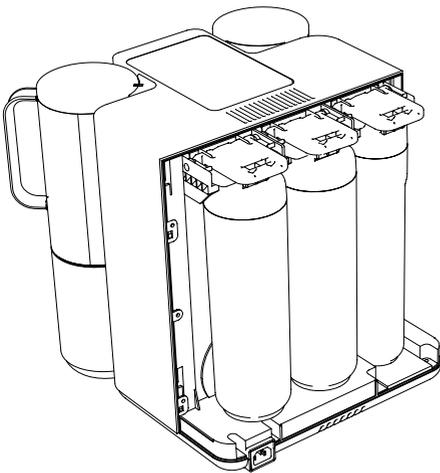
## 2 FILTER CARTRIDGE INSTALLATION



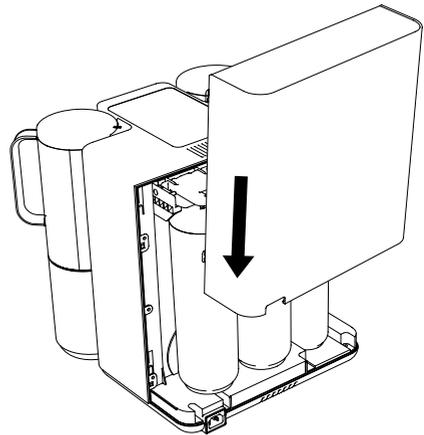
1. Open the rear cover. Lift up to unlock hooks



2. Push the lever up to install filter cartridges



3. Install filter cartridges.  
"1" Sediment filter on the left.  
"2" Activated carbon in the middle.  
"3" Ro membrane on the right.



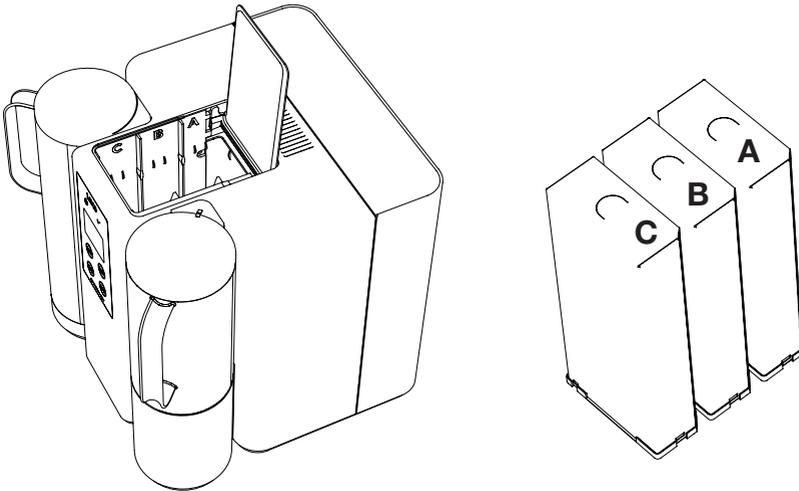
4. Push the lever down to lock.  
Make sure the lever is tightly locked to avoid water spray or leakage.  
Re-install the rear housing cover.

### 3 LANGPAK INSTALLATION

1. Open top lid. Press rear end to lift.
2. Install mineral A in the slot marked "A"
3. Install mineral B in the slot marked "B"
4. Optional: install flavor in the slot marked "C"

NOTE: PUSH DOWN CARTRIDGES UNTIL THEY LOCK IN POSITION

5. Close the top lid after minerals and flavor cartridges installation.



### 4 JAR INSTALLATION

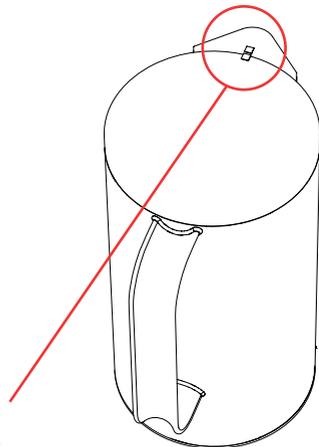
1. Fill the tap water jar with water close to the top. Put the cover on.
2. Place tap water jar on the left docking station

**TIP: BE SURE THAT JAR IS FIRM IN POSITION AND STANDS STRAIGHT UP.**

3. Place clean jar on the docking station. Put jar cover on.

**WARNING:**

ROTATE JAR COVER UNTIL SQUARE DOTS ON COVER AND MACHINE ARE NEXT TO EACH OTHER.



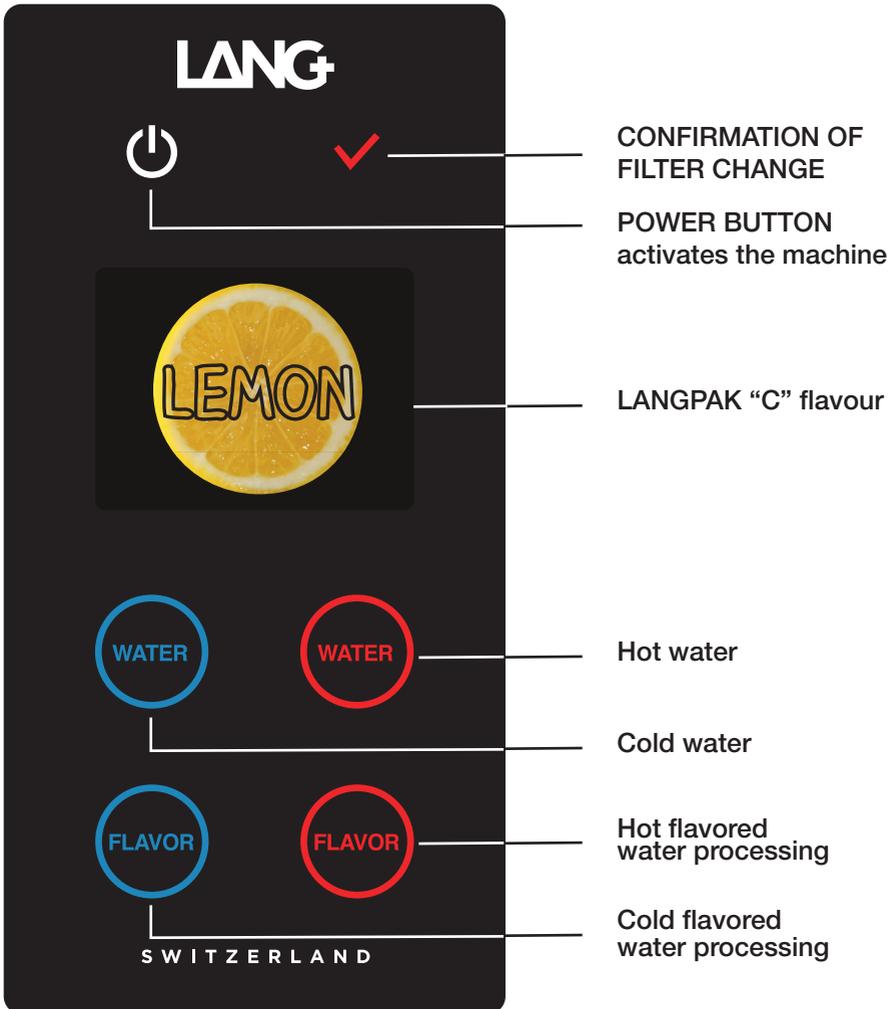
## 5 LANG START UP

1. Connect the power cord

**WARNING:**

CHECK FOR CORRECT VOLTAGE SOURCE AND POWER RATING.

2. When power cord is plugged in the power outlet, the machine will go in standby mode (ready for operation).



## 6 LANG OPERATION

### 6.1 INITIALIZATION

To start the initialization procedure press the power button.

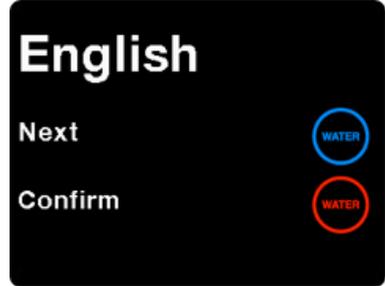
The machine guides the user through each step.

The procedure lasts about 120 minutes and shall not be interrupted.

### CHANGE LANGUAGE

When the machine is turned on the CHANGE LANGUAGE setting will be displayed.

Press  to scroll through the language selection, to confirm the new language press .



### TARE SCALES



The same procedure is repeated for the clean water scale:

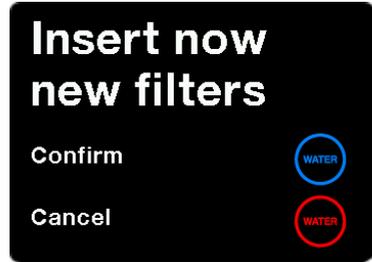


## FILLING FILTERS

Insert the filters, make sure the filters are properly locked and the rear cover is in place.

You will now be guided to fill the tap water jar and empty the clean water jar multiple times.

The procedure is terminated when 10 liters of water have been processed.



If the machine has gone into STANDBY MODE, press the Power button  to resume the process.

Pressing Cancel  will put the machine in STANDBY MODE. By pressing the Power button the machine will restart the machine preparation procedure

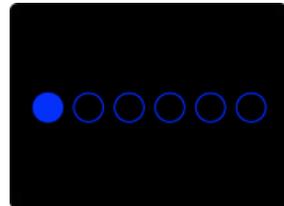
During the FILLING FILTERS the following information will be displayed :



FILL TAP WATER JAR



EMPTY CLEAN WATER JAR



MACHINE IS PROCESSING

## CLEANING THE MACHINE

Finally the machine will perform an auto cleaning cycle. Follow the instructions on the screen



After a successful setup the machine is ready to use and goes to the Select menu.

## 6.2 OPERATION

Fill the tap water jar, empty the clean water jar or lower the spout and place a cup on the clean jar docking station.

The machine is turned on by pressing the power button . The machine will perform automatically a flushing cycle to remove accumulated air in the system.

If there are no errors, the machine will go to the Select menu.

The LANGPAK flavor icon will not show up if:

- The flavor cartridge is not inserted
- The flavor cartridge is empty

Select the desired function by pressing shortly a button:



**PROCESS COLD WATER**



**PROCESS HOT WATER**

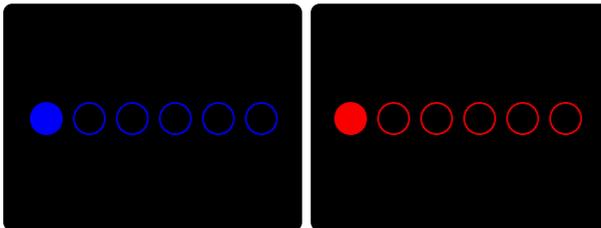


**PROCESS COLD WATER WITH A FLAVOR**



**PROCESS HOT WATER WITH A FLAVOR**

Machine will go to PROCESSING MODE and process the water



Blue moving dots indicate cold water processing, red dots indicate hot water processing.

## 6.3 PROGRAMMING THE CUP FILL LEVEL

If the selected button is pressed longer than 3sec the machine starts to memorize the fill level in CUP FILLING MODE. Pressing again the selected button will stop the filling and memorize the cup fill level. The next cup filling will stop at the memorized fill level. A maximum of 200ml can be filled when using a cup.

The machine stops when the clean jar is full or the cup has reached the desired fill level.

While the machine is processing, the machine operation can be canceled by pressing the selected processing button or the power button  at any time.



**CAUTION: HOT SURFACES AND BEVERAGE**

When processing hot water, the water in the clean water jar or in the cup can become very hot. Care must be taken when removing the jar or the cup to avoid hot water spillage. Use the handle on the clean water jar when removing the jar and avoid touching the hot water, otherwise severe scalding may occur.

## 7 CHANGING FILTERS

The standard life time of the filters is two years. After two years have expired, the machine will issue the warning “CHANGE FILTERS” during processing. The user must now change the filters. After changing the filters, the “FILL FILTER” procedure must be executed as described below in the maintenance section.

## 8 TROUBLESHOOTING

### 8.1 WARNINGS

The following warnings are displayed during the water processing. The user is alerted to take care of these issues in due time

#### Change Minerals



**CHANGE MINERALS:** mineral concentrates containers need to be changed soon. Both mineral concentrate containers must be changed simultaneously (Langpak A and B)

#### Change Flavor



**CHANGE FLAVOR:** flavor concentrate containers need to be changed soon (LangPak C)

#### Flavor Empty



**FLAVOR EMPTY:** if the flavor concentrate is not changed in due time and is empty, the machine no longer lets the user select flavored water and this option is no longer displayed in the Select menu

#### Change Filters



**CHANGE FILTERS:** the operation period of the filters is 2 years. After this period all filters must be replaced simultaneously and the FILL FILTER procedure must be initiated

## Low Flow rate



**LOW FLOW RATE:** the water flow rate is low. This can be due to:

- The tap water temperature is very low, less than 10°C
- Air has accumulated in the system, perform a **CLEANING PROCEDURE**, see maintenance section
- Filters are clogged: replace the filters and perform a **FILL FILTER** procedure, see maintenance section

## Low Battery



**BATTERY LOW:** the internal backup battery is discharged and needs replacement. The battery can only be replaced by a certified repair agent. A list of certified repair agents can be found on the LANG website

## 8.2 OPERATIONAL ERRORS

A number of errors can be displayed during the operation of the machine

Jar



### MISSING TAP WATER JAR

Fill and put tap water jar on the docking station

Jar



### MISSING CLEAN WATER JAR

Put clean jar on the docking station

**Empty**



**CLEAN WATER JAR FULL:**

Empty clean water jar

**Fill**



**FILL TAP WATER JAR:**

Empty tap water jar and fill with fresh water

**Minerals**

**Empty**

**A and B**

**MINERALS EMPTY:**

Replace minerals. Always change both minerals simultaneously

**Cartridge**

**Error**

**CARTRIDGE ERROR:**

Mineral or flavor cartridges are in a wrong position

Or

Mineral cartridge missing

Or

Damaged mineral cartridge

**Wait**

**30**

**Seconds**

**TAP WATER JAR UNEXPECTEDLY REMOVED DURING PROCESSING:**

-wait 30 seconds for the decrease of internal pressure

**TAP WATER JAR IS NOT PROPERLY INSERTED IN THE DOCKING STATION:**

- Remove tap water jar and wait 30 seconds for the decrease of the internal pressure.

- After the wait period the machine will ask to put tap water jar back on the dock.

## 8.3 ERRORS

During the processing, the following errors can occur. The user can repeat processing. If the error persists the machine must be serviced by a authorized repair centre.

**ERROR**

**1**

### WATER FLOW TOO LOW ERROR

The water flow rate is low.

This can be due to:

- Air has accumulated in the system, perform a **CLEANING PROCEDURE**, see maintenance section below.
- Filters are clogged, replace the filters and perform a **FILL FILTER** procedure, see maintenance section below

**ERROR**

**2**

### SCALE ERROR

Scales reading wrong values

**ERROR**

**3**

### BOILER ERROR

Boiler not reaching operating temperature.

**ERROR**

**4**

### BOILER ERROR

Boiler overheating.

**ERROR**

**5**

**REMINERALIZATION UNIT MALFUNCTION**  
Replace mineralization or flavor cartridges.  
Check if cartridges are correctly inserted. Try replacing cartridges

**ERROR**

**6**

**INTERNAL COMMUNICATION ERROR**  
Unplug and plug-in the machine.

#### **8.4 CRITICAL ERRORS**

If the following errors are displayed the machine will no longer be functional and must be sent to an authorized repair centre

**ERROR**

**10**

**BOILER ERROR**  
For safety unplug the machine.

**ERROR**

**11**

**MOTOR CARTRIDGE ERROR**

**ERROR**

**12**

**INTERNAL SYSTEM ERROR**

# 9 MAINTENANCE

## 9.1 AUTO MAINTENANCE

### FLUSHING

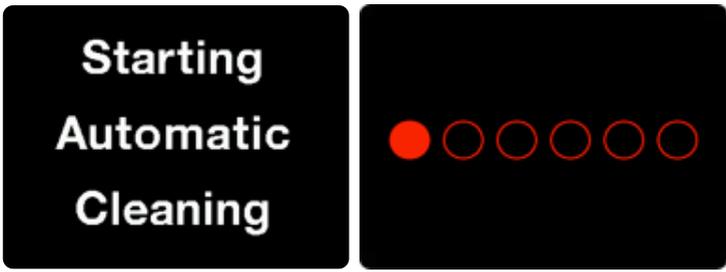
Whenever the tap water jar is inserted on the docking station and the power

 button is subsequently pressed an auto flush is performed for 10 seconds while the machine is in the SELECT MODE. This is to remove air which could be captured in the pipe when the jar is inserted and subsequently reduce the performance of the pressure pump.

### CLEANING

A cleaning of the clean water path is requested every 2 weeks. The cleaning is automatically started after pressing the power  button.

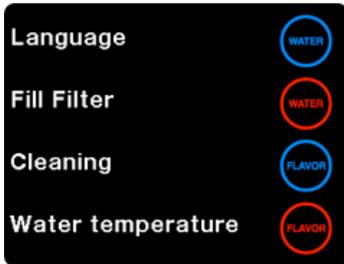
First, the pressure pump is flushed and then a hot water processing cycle is performed. The machine asks the user to empty the clean water jar and to fill the tap water jar.



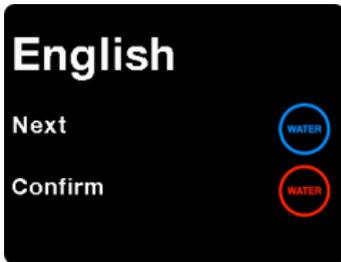
After the successful flushing, the user is prompted to fill the tap water jar and to empty the clean water jar to perform the cleaning of the machine.

## 9.2 MANUAL MAINTENANCE

Pressing the standby button for 3 seconds in Select mode enables the maintenance menu



### 1. CHANGE LANGUAGE



PRESSING 

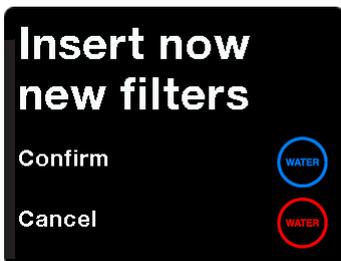
scrolls through the language options

PRESSING 

confirms change and returns to Select mode

### 2. FILL FILTERS

This step guides you through the filter filling process  
Filling filters procedure:



PRESS 

to start the procedure only after replacing all 3 filters

PRESSING 

will put the machine in STANDBY MODE.

The filling procedure cannot be interrupted and will continue after a power cycle of the machine.

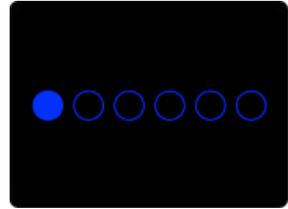
During the FILLING FILTERS the following information will be displayed :



FILL TAP WATER JAR



EMPTY CLEAN WATER JAR



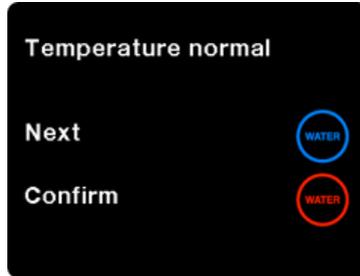
MACHINE IS PROCESSING

After a successful filling the filters the machine is ready to use and goes to the Select menu

### 3. CLEANING

User can manually start the guided cleaning procedure by pressing 

### 4. SET HOT WATER TEMPERATURE



PRESSING  scrolls through the temperature options.

The nominal hot water temperature is 80°C. The water temperature can be either increased by 5°C or decreased by 10°C

PRESSING  confirms change and returns to SELECT MODE

## 10 PRODUCT INFORMATION

**Model:** Lang C010

**LANG temperature operating range:** 10 - 35 °C

**Tap water temperature range:** 5 - 35 °C

**Ratings:** 220-240V~ 50-60Hz, 620W, Class I

**Max. Input:** 1500W

**Manufacturer:** G-Lab GmbH

**Address:** Baarerstrasse 38, 6300 Zug, Switzerland

### ENVIRONMENT FRIENDLY DISPOSAL



You can help protect the environment!

Please remember to respect the local regulations: hand in the non-working electrical equipment to an appropriate waste disposal centre.

**LANG+**

**S W I T Z E R L A N D**