



GRIMAC

TUBE



INSTRUCTIONS FOR USE

Espresso machine based on the E.S.E. (Easy Serving Espresso) system

Manufacturer: **GRIMAC s.r.l.**, Italy, 40069 Zola Predosa, Via Morazzo 2

Model: **TUBE with additional adjustments to fit the needs of FRANCK d.d.**

INTRODUCTION



The coffee machine is designed and constructed for the preparation of espresso coffee using pods, based on the E.S.E. (Easy Serving Espresso) system.

These "INSTRUCTIONS FOR USE" constitute a guide to the use and maintenance of the "TUBE" coffee machine manufactured by GRIMAC s.r.l.

Please read all parts of this manual carefully before starting the operation and maintenance procedures. The manual contains all the information, tips and warnings for using the "TUBE" coffee machine.

"INSTRUCTIONS FOR USE" are an integral part of the product and should be available with the machine at all times during its use.

If the machine is given to another user or a new owner, it is important that it is accompanied by "INSTRUCTIONS FOR USE".

SYMBOLS

Please note the user symbols that are of special importance for the safety of persons or machines or the determination of particular working conditions for machines.



Dangerous situation for persons and/or the machine



Danger of electric shock to persons and/or the machine



Danger of hot surfaces/burns



General operating information



General warning: Danger of destruction of the machine

GENERAL SAFETY WARNINGS

Any other use of the "TUBE" machine that is not recommended in this manual for the use of the product at the time of purchase, excludes any liability of GRIMAC s.r.l. and related distributors in respect of damage to the machine, persons or property.



The main power supply must be grounded.

- Do not put hands, metal objects and anything like that in the machine while it is connected to the power supply. For any technical support or service maintenance not described in this manual, always contact one of our service centres.

Before any intended maintenance procedure, always disconnect the power supply.



- Before using the device, it is necessary to know about the positions and operating conditions of individual commands of the machine parameters described in the "INSTRUCTIONS FOR USE".

This machine may be used by persons aged 8+ and persons with reduced physical, sensory and mental abilities or lack of experience and knowledge if they are supervised or instructed on the safe use of the machine and understand the possible risks.



- Children must not play with the machine.

Cleaning and user maintenance must not be carried out unattended by children.

This machine is also intended for use in households and similar conditions such as: kitchens for staff in shops, country houses, clients in hotels, motels and other residential environments, B&B accommodation.

SAFETY WARNINGS FOR MACHINE MAINTENANCE

Regular maintenance, emergency maintenance and cleaning operations should normally be carried out when the machine is disconnected from the power supply.



To maintain the machine in regular working order, it is necessary to have any worn out or broken part replaced exclusively with the original spare part by a specialized technician.

After any type of maintenance, make sure that all parts of the machine are working properly. Circuit repairs must be performed by a qualified technician with the power supply turned off and the plug disconnected.



Never use running water on the machine while it is working or during cleaning. Do not clean the machine with strong solvents, thinners, alcohol, etc.

Only clean with warm water and neutral detergents so as not to damage the machine either on the inside or outside.

Cleaning and regular maintenance of the machine must not be carried out by unattended children.

ACCEPTANCE AND UNPACKING

The "TUBE" coffee machine comes packaged in a box protected from shocks and breakage. When you open the box, remove the protective cardboard so that you can reach to the bottom of the machine with both hands. Lift it slowly with just the necessary force.

Place the machine on a suitable surface or table for initial operations. First, check everything to make sure that the machine is intact and without any damage. If you are in any doubt, contact one of our service centres.

The "TUBE" coffee machine has been tested, packaged and delivered undamaged by the manufacturer (GRIMAC s.r.l.). Any type of damage is caused during transport. Check the machine carefully upon accepting the delivery.

If you notice any breakage on the product, contact your supplier.

Before connecting the machine to the power supply, be sure that the mains voltage is the same as mentioned in the technical data sheet.

PLACEMENT AND INSTALLATION

After checking the machine, place it where you intend to use it, where it is stable and safe with enough space to perform various operations (filling with water, inserting pods, placing for utensils such as cups, saucers...).

The machine should be placed high enough above the floor so that it is not accessible to small children.

Do not place the machine in aisles or narrow passages to avoid its knocking down.



The machine is delivered fully assembled and does not require additional mechanical intervention. All you have to do is insert the plug into the socket. The water tank must be washed with water after removing the tube with a depurator (water softener filter) located in the water tank. Then fill the tank with water and put it back, having returned the tube with depurator in the tank so that it is submerged to the bottom of the tank. Any traces of coffee or water are the result of the final testing carried out by the manufacturer. If possible, it is recommended that the machine be installed by a competent and qualified technician.

GENERAL INFORMATION

The machine is technically designed using the components and materials that correspond to the new regulations so that every part of the “**Tube**” machine is meticulously designed with special attention to the components and circuit elements that come into contact with the coffee drink.

GENERAL DESCRIPTION OF VISIBLE MACHINE COMPONENTS

The “**TUBE**” coffee machine includes the following external components:

- Power switch (ON/OFF) with the green lamp (on the side, above the power cord socket)
- Power cord
- Coffee ready light (green light on the front of the machine)
- Coffee dispenser switch - “**short**” coffee (above coffee ready light)
- Coffee dispenser switch - “**long**” coffee (below coffee ready light)
- Upper and lower pod holder
- Lever for opening/closing the pod holder (on the side)
- Cup rack tray

HOW IT OPERATES

After lifting the lever and inserting a Franck coffee pod (following the exact instructions given in the chapter “HOW THE MACHINE WORKS AND HOW TO USE IT”), press the lever downwards.

You can now make coffee by pressing one of the two dispenser switches offered (**short** coffee (top switch) or **long** coffee (bottom switch)).

The volume of the coffee beverage is factory-defined by the following dosage time:

- **short** coffee - doziranje traje **16 seconds**
- **long** coffee - doziranje traje **30 seconds**

This machine has the option of resetting the dosage time by the user and setting up the short and long coffee dosage at will.

Resetting and setting up the dosage are described in the section “BEVERAGE VOLUME AND TEMPERATURE SETTINGS”.

HANDLING AND FUNCTIONS

MAIN SWITCH:

- Press “**ON**” ... the machine turns on and the green light is **on**
- Press “**OFF**” ... the machine turns off and the green light is **off**

COFFEE READY LIGHT (green):

- Green light on between dosage switches indicates that the heater has reached the temperature to start preparing the beverage
- Dosage cannot start until the light is on

COFFEE DISPENSER SWITCH (short / long)

- Pressing the selected switch starts coffee dosage
- When the coffee is ready, the dosage process stops automatically
- The user can also stop the dosage anytime by pressing the switch again.



POD HOLDER OPENING/CLOSING LEVER

- Moving the lever down... the pod holders close, and the pod is ready to make coffee
- Moving the lever up... the pod holders open, and the pod can be removed

HOW THE MACHINE WORKS AND HOW TO USE IT

1. From the moment you turn the main switch "ON", it takes the machine 2-4 minutes to reach the coffee making temperature.
2. When the machine has reached the required temperature, the coffee ready green light between the coffee dispenser buttons goes on.
3. Open the pod holders by moving the lever up.
4. Insert the pod into the holder, making sure that it fits properly into the holder slot.
5. Lower the lever to close the pod holder.
6. Place the cup below the spout on the grid tray and press the selected dispenser switch to make coffee.
7. When coffee is ready, remove the cup from the machine.
8. Open the pod holder by moving the lever up and remove the used pod.
9. If you do not intend to use the machine for a short period (e.g. for the next 30 minutes), run water through a closed "empty" pod holder to flush the coffee grounds in the holder mechanism and leave it clean for the next use. Then switch off the machine.

IF THE MACHINE DOES NOT WORK ...

The cases in which the machine does not work may include:

- The power cord is not plugged into an outlet
- Main switch is not on (≠ "ON")
- There is no water in the water tank
- Blocked water supply (the tube with depurator is not properly immersed in water or clogged)



If the above obstacles have been removed and the water supply system is clean (see chapter: "CLEANING") and the machine still does not work, this means that there is a possible fault in the machine which should be checked by one of our service centres.

**CAUTION:**

In the event of a fault, do not remove the protection but contact the nearest service centre. In any such case, unplug the machine from the mains and never put your hands or other objects in the machine while it is still connected to the mains.

GENERAL CHECKS

Water tank: Periodically check the water level and top up when necessary (lift the lid). To this end, proceed as follows:

- Disconnect the machine from the power supply
- After lifting the lid on the back of the machine, pull the tube with the depurator out of the water tank
- Remove the water tank and fill it with water outside the machine
- Replace the filled water tank into the machine
- Re-immerses the tube with the depurator in the water tank (to the bottom)
- Close the lid of the water tank
- Reconnect the machine to the mains supply

Additional notes:

- If you have not used the machine for more than a few days, by all means change the water in the tank!
- Do not use the machine without any water in the tank!



CLEANING**FILTER SCREEN IN POD HOLDER:**

- It is recommended to periodically clean the steel filter screen through the holder.
- It is recommended to periodically clean it as thoroughly as possible by removing it from the pod holder using a screwdriver as a lever. If it seems damaged, replace it with a new one.

CUP RACK TRAY:

- Periodically remove the tray from its seat to clean the waste liquid sludge. Clean with water only.

HOUSING:

- To keep the casing clean, use a sponge or cloth soaked in neutral detergent.

**CAUTION:**

- Coming out of the machine, the water is very hot. Watch out for the risk of scalding.
- Do not use solvents, abrasive powders or wire sponges.

INSTRUCTIONS FOR DESCALING

To properly descale the "TUBE" follow these instructions:

- Pull the silicone supply tube out of the water tank and remove the water softener (depurator).
- Immerse the supply tube in a container with an aqueous solution of **citric acid**.
 - For descaling, it is recommended to use a consumer package of 200mL liquid solution of 20% citric acid mixed with another \approx 200mL of water in the tank of the machine.
- Start several cycles of the 'empty' machine, as if you were making coffee
- When there is no cleaning solution left, rinse the container and fill it with fresh water
- Start several cycles of the machine, as if you were making coffee, to remove residues and traces of citric acid solution
- When you are sure that there are no traces of citric acid solution in the machine, replace the water softener (depurator) in the supply pipe and immerse it back in the water tank filled with fresh water.
- Carry out this procedure periodically depending on how much you use the machine and the hardness of the water
 - It is recommended that in case of the average water hardness (\approx 10° dH) the above procedure is performed after every 100 prepared coffee drinks, which will significantly extend the life-cycle of the machine and allow you to always fully enjoy the optimal flavours of your favourite **FRANCK** espresso.

BEVERAGE VOLUME AND TEMPERATURE SETTINGS**DETERMINING BEVERAGE VOLUME BY SETTING THE DOSAGE TIME**

1. Insert the coffee pod into the machine and close the holders with the lever to fit the pod.
2. Press and hold the desired button until it starts flashing (about 5 seconds).
3. Release the button and wait for the desired dosage (define the desired number of seconds of dispenser dosage). Pressing the button again will stop the dosage. The dosage volume is thus set and fixed.

TEMPERATURE SETTING

We have different types of coffee and it is important to set up the correct water temperature for better extraction of different blends. This machine allows setting up 5 (five) different temperature levels:

- 1 **light flash** _ / 93 °C /
 - 2 **light flashes** _ / 95 °C /
 - 3 **light flashes** _ / 98 °C /
 - 4 **light flashes** _ / 100 °C /
 - 5 **light flashes** _ / 102 °C /
1. To enter temperature programming, first switch the machine 'OFF'.
 2. Press and hold the short coffee dosage button and turn the machine back 'ON', and after about 5 seconds, the short coffee dosage button will start to flash in intervals.



3. The temperature level corresponds with the number of consecutive light flashes repeated at intervals.
4. If you want to change the temperature, briefly press the short coffee button. The machine will then change the number of light flashes by +1 compared to the previous setting. Each new pressing of the button changes the temperature level from 1 to 5, and all over again.
5. To confirm the desired temperature level, switch "OFF" the coffee machine at the moment when the desired light flashing sequence is on. After that, switch the machine back "ON" again, and the desired temperature level should remain programmed.



6. "STAND-BY" SETTINGS

The "Stand-by" mode (machine hibernation) is activated 9 minutes after the last coffee was made, if there were no additional actions in the meantime. Waking the machine from the "Stand-by" mode is done by pressing the short coffee button and waiting for the green coffee ready light to go on.

SPARE PARTS

For each required replacement part, we recommend the installation of the original Grimac spare parts available at our service centre.

Grimac assumes no responsibility for unsatisfactory operation of the "TUBE" coffee machine in case of the installation of non-original spare parts. All repairs must be carried out exclusively at one of our service centres.

WARRANTY

The warranty period is 12 months from the date of purchase (the date on the bill of sale is the starting date) and covers all mechanical and electrical components.

Any parts found by the manufacturer to be a manufacturing defect will be replaced free of charge.

The manufacturer and his distributor shall not be liable for personal injury or property damage caused by a malfunction of the machine if you follow the instructions given in this manual.

HR Warranty conditions

Jamstvo je ograničeno na sljedeće uvjete:

- The warranty only applies to the machines in normal use in accordance with the recommendations in this manual.
- A servicing request or a complaint within the warranty period can be submitted by contacting an authorized service centre. For details about how to contact an authorized service centre, go to www.franck.eu
- The end user must submit the request immediately after the fault occurs, during the warranty period.
- The end user must cooperate in the fault confirmation.
- Only clean and complete machines will be accepted (in accordance with hygiene standards).
- In case of a valid request, the warranty period will be extended for the length of time from the date the request was received to the date the end user picked up the machine, or to the date the end user is obliged to pick up the machine.
- To receive services under this warranty, the end user is obliged to support his request with the following documents/information: **bill of sale / serial number of the machine**
- The manner and duration of the complaint resolution depends on the nature of the damage or defect. Resolving a complaint or eliminating deficiencies may not take longer than 30 days from the date of filing the complaint. After the expiration of the deadline for resolving the complaint, the consumer (natural person) is entitled to have the product replaced with a new product.

The warranty shall not apply to:

- Machines damaged as a consequence of unprofessional or incorrect installation, not used in accordance with the instructions for use, not used in accordance with legal regulations and customary rules, or machines used for the purposes for which they were not designed.
- Machines damaged due to the lack of care or insufficient maintenance.
- Machines damaged by using non-recommended cleaning agents.
- Machines damaged through an accident or force majeure (natural disasters, fire and flood).
- Machines with substantial mechanical damage (e.g. due to a fall).





- Machines damaged by using unsuitable pods.
 - Use only pods for the **E.S.E. (Easy Serving Espresso)** systems of the **FRANCK** range.
- Machines that have been repaired or modified in any way by unauthorized persons.
- Machines for which the end user has not proved his entitlement to a claim (missing bill of sale)
- Machines whose data do not match those in the manufacturing documentation.
- Machines from the clearance sale.



The costs of transport or delivery of the device shall be borne by the customer.

The information and characteristics mentioned in this manual are not binding on the manufacturer or its distributor, who reserve the right to make changes to the product at any time.

EU DECLARATION OF CONFORMITY

Grimac s.r.l. hereby declares under its own responsibility that the device in question meets all the provisions of the EU safety and health guidelines.

This declaration shall be taken back if the machines in question are modified without Grimac's express permission.

Manufacturer: **GRIMAC s.r.l.**

Trademark (trademark): **GRIMAC**

Description: **COFFEE MACHINE (based on the E.S.E. (E asy S erving E spresso) system)**

Type: **TUBE**

Model: **TUBE with additional adjustments according to the needs of FRANCK d.d.**

COMPLIANCE

- Low Voltage Directive (LV) 2014/35/EU
- Electromagnetic Compatibility Directive (EMC) 2014/30/EU

HARMONIZED TECHNICAL STANDARDS

- Electrical safety standards: IEC 60335-1: 2010 + A1: 2012 + A1: 2016 + DEVEU, IEC 60335-2-15: 2012 + A1: 2016 + DEV.EU
- Electromagnetic Compatibility EMC: EN55014-1: 2006 + A1: 2009 + A2: 2011, EN5014-2: 2015, EN61000-3-2: 2014, EN61000-3-3: 2013

DISPOSAL



At the end of its life cycle, this machine must be disposed of in an appropriate manner in accordance with European Directive 2002/96/CE. The equipment should not be disposed of with normal solid urban waste but must be differentiated to optimize the recovery and recycling of materials from which it is made.

The crossed-out wheeled-bin symbol on all devices is a reminder that they must be collected separately. Proper compliance with all directives concerning the disposal of used products helps to preserve the environment.

GENERAL TECHNICAL DATA

- **Voltage:** 220-240V 50 / 60Hz (Europe); 110-120V 60Hz (U.S.A.)
- **Absorption power:** 450W
- **1 safety thermostat with manual reset 145°C**
- **1 adjustable operating thermostat for 5 (five) temperature level options:**
 - **1_ /93°C/**
 - **2_ /95°C/**
 - **3_ /98°C/**
 - **4_ /100°C/**
 - **5_ /102°C/**
 - **Factory-set operating thermostat to level: 2_95°C**
- **Dimensions (mm): h x d x w / 295 x 329 x 150 (180 _with_ lever)**
- **Weight:** 4 kg
- **Water tank volume:** 2 L

