

# Virtus<sup>®</sup> Group Service



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# **INSTRUCTIONS MANUAL**

## *Prestige Revolution Atlantic*

**ESPRESSO COFFEE MACHINES**

# INSTRUCTIONS MANUAL

## INTRODUCTION

This manual is intended to give all the necessary information for the correct use and maintenance of the machine, looking after the user's safety.

This manual must be kept in a safe place and its instructions followed, since the manufacturer is not to be held responsible for damages caused to people or property due to mis-installation/use.

The instructions in this manual do not replace the technical data stamped directly on the machine's I.D plate.

The manufacturer has the right to alter this manual without having to up-to-date previous editions.

This machine should not be used by people whose physical, sensory or mental capacities are diminished (including children), or by people with little experience or know-how, except if they can be assisted by another person responsible for their safety and vigilance and are able to give them instructions pertaining to the use of the machine.

It is also convenient to supervise children so as to assure they maintain a safe distance from the machine.

The user should comply with the safety regulations in force in the country where the machine is installed and the periodical servicing operations should be assured.

The user should stand on a wooden platform and should avoid using the machine barefoot or with wet feet.

The user should avoid touching the outlet groups of hot water and steam because they are very hot.

**THE MACHINE HAS TELESCOPIC FEET WHICH ARE  
INSIDE THE SPARE PARTS BOX**

### **ATTENTION**

Before using the machine for the first time, remove the stainless steel plastic protections and clean it using a mild detergent.

The machine should not be installed close to inflammable products or products that can be heat defected. If this is not possible, the machine place has to be isolated with a good thermic non-inflammable material.

## **COFFEE MACHINES “PRESTIGE REVOL. AND ATLANTIC” MODELS**

This manual applies to all “PRESTIGE REVOL. and ATLANTIC” models, semi-automatic and digital electronic with volumetric control (C.V.).

### **INSTALLATION**

Before installing the machine, make sure that the machine has all the required conditions to work correctly.

Therefore:

**1** - Check that the electrical installation has all the conditions in order to work correctly.

1.1. - Check if the power supply corresponds to the one required for the machine (see the ID plate)

1.2. - Check if there is a suitable earth circuit.

1.3. - Check if the available power is suitable for the machine power.

1.4. - The electrical board should have a protection of 30 mA and a circuit breaker with a 3mm separation from the contacts.

**2** - Check that the water circuit has the required conditions for installation:

2.1. - A supply tap and a 3/8 pipe connection to connect to the supply pipe.

**3** - Check that there is an accessible discharge pipe that can hold a pipe with 16/17 mm.

**4** - Space to place machine purifier.

### **IMPORTANT**

#### **“THE EARTH CONNECTION IS COMPULSORY”**

The machine is to be connected to an electric fixed installation and thus the use of wall sockets, multiple plugs or extension cords is strictly forbidden.

For installation follow the scheme in **Fig. 1**.

- Place the machine correctly on the counter.
- Find a suitable place and position for the purifier n. 12 and connect the purifier to tap n. 14 through tube n. 13
- After having connected the purifier and before connecting it to the machine, run the water until it comes out clean, as new purifiers can have some residues.
- Connect the purifier to the filter-holder n. 16 by using the tube n. 11.
- Carry out the electric connections by joining the conductor n°. 5 to the circuit-breaker n°. 2.

## WORKING INSTRUCTIONS

Turn the switch button to the position 1. The green pilot lights up while the boiler fills up automatically. When the water reaches the set level, the pilot light will go off.

Turn the switch button to position 2.

The machine begins to heat up and when it reaches the working temperature, the red pilot switches off.

Turn on the steam tap for a few seconds and then turn it off.

Check the machine manometer to see if the boiler pressure is at +/- 1 bar.

The pressure in the boiler can be adjusted by regulating the machine pressure gauge.

Now you can begin to make coffee.

The machine has filters for one or two coffees and all you need to do is select the required filter, put it in the group with the correct dose of coffee (5,5 to 6,5gr. per coffee) switch the group on and then switch it off when you have the required amount of coffee. While the machine is working, check the manometer to see if the pump's pressure corresponds to +/- 9 bar. This pressure can be adjusted by regulating on the adjustment screw located on the pump head.

In order for it to work properly, you should check the coffee grind.

If the outlet time is longer than 20/25 seconds, you should adjust the grinder for a thicker grind and vice-versa if the length of time is shorter.

You should put the coffee in the filter and press it uniformly.

## VOLUMETRIC CONTROL MODELS (C.V.)

The C.V. models are different from the other ones because it is possible to pre-program coffee doses, seeing as the machine switches off automatically when it reaches the programmed dose.

Programming mode: **please refer to supplement**

## HOT WATER AND STEAM

The machine has water and steam taps to make tea, warm milk or punch and make cappuccinos. Before using the steam tap, open it for 1 or 2 seconds so that any residues from a previous use can be washed away. It is also important to clean the rod with a wet cloth after having used it.

## CLEANING

### 1 - DAILY CLEANING

At the end of the day, before switching off the machine, you should clean each group, using the blind filter that is provided with the machine, by making several supplies in each group.

Clean the filter-holder guides with a cloth-sponge and wash the filters and filter-holders using a small amount of detergent, in order to remove accumulated coffee fat.

Clean the tray and the grid where the coffee falls, removing them from the machine. To better clean the grids and trays you may submerge them into water.

### 2 - WEEKLY CLEANING

Every week you should put a spoon of a specific detergent for coffee machines in the blind filter, then put it in the group and switch it on. Let the machine work for about 30 seconds and then switch it off. Remove the filter-holder, pour out the water and repeat this operation until the water in the filter is clean.

Repeat this operation in all the groups.

You should also remove the cup-holder grids, wash them and clean the tray thoroughly. After removing the grid and tray where the coffee falls, it is possible to see the plastic discharge tank of the machine, which should be cleaned using a brush and some clean water not allowing that coffee grounds become accumulated because they can block up the discharging outlet.

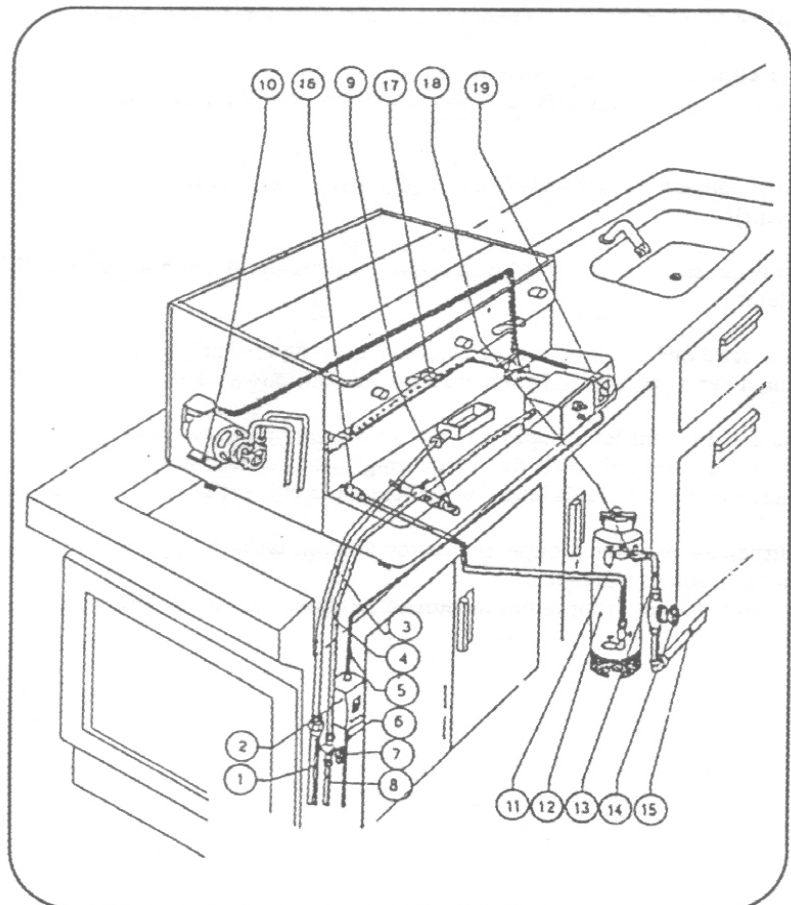
The body should be cleaned with a wet cloth, always avoiding the use of abrasive or solvent detergents.

Every two weeks, you should restore the purifier according to the specific instructions supplied with it.

## SERVICING AND REPAIR

All servicing and repair operations should be carried out by qualified personnel duly authorized by the manufacturer.

Use only original servicing parts.



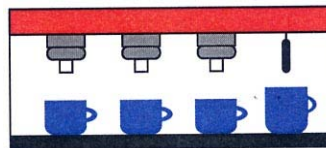
**Fig. 1**

# SUPPLEMENT

## **Automatic machines (CV Models (Volumetric Control))**

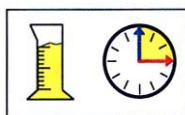
### **Programming the keyboard**

#### TECHNICAL SPECIFICATIONS

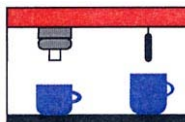


Survey of 1, 2 and 3 coffee groups

Control of 4 different coffee doses on each group



Volumetric control of coffee doses



Programming coffee doses – example

Main configuration set by the keyboard

# 1. KEYBOARD

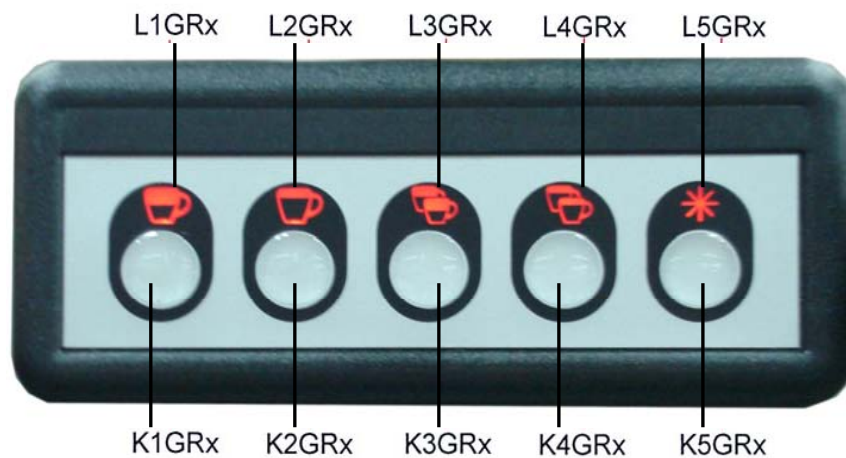
## 1.1 Inputs

|                      |                            |                    |
|----------------------|----------------------------|--------------------|
| K1GR1, K1GR2, K1GR3: | 1st dose key               | groups 1, 2, and 3 |
| K2GR1, K2GR2, K2GR3: | 2nd dose key               | groups 1, 2, and 3 |
| K3GR1, K3GR2, K3GR3: | 3rd dose key               | groups 1, 2, and 3 |
| K4GR1, K4GR2, K4GR3: | 4th dose key               | groups 1, 2, and 3 |
| K5GR1, K5GR2, K5GR3: | Continuous/programming Key | groups 1, 2, and 3 |

## 1.2 Outputs

|                      |                            |                    |
|----------------------|----------------------------|--------------------|
| L1GR1, L1GR2, L1GR3: | 1st dose LED               | groups 1, 2, and 3 |
| L2GR1, L2GR2, L2GR3: | 2nd dose LED               | groups 1, 2, and 3 |
| L3GR1, L3GR2, L3GR3: | 3rd dose LED               | groups 1, 2, and 3 |
| L4GR1, L4GR2, L4GR3: | 4th dose LED               | groups 1, 2, and 3 |
| L5GR1, L5GR2, L5GR3: | Continuous/programming LED | groups 1, 2, and 3 |

**On idle ON state, all LEDs are lighted**





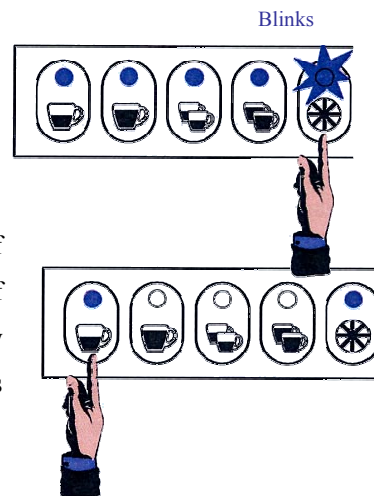
## 2. PROGRAMMING THE COFFEE DOSES

Each coffee dose can be programmed thanks to the volumetric control. In order to program the different doses, follow this procedure:

**Always start programming the groups by the first one (the one on the left)**

1. Put the desired coffee powder on the filter and place the filter-holder back on the machine's group.

2. Press the programming key K5GRx and keep it pressed for more than 3 seconds. All the LEDs of the coffee keys stay on and the LED K5GRx blinks.



3. Press for more than 5 seconds (TIME-OUT programming) one of the 4 coffee keys that you need to program (e.i., K1GRx). The LED of the key K5GRx stays on simultaneously with the one of the Key under programming (in this case, key L1GRx). All the other LEDs switch off.

4. When the desired coffee quantity is reached, press the **coffee key** on the keyboard related to the group that is being programmed in order to stop the flow of coffee.

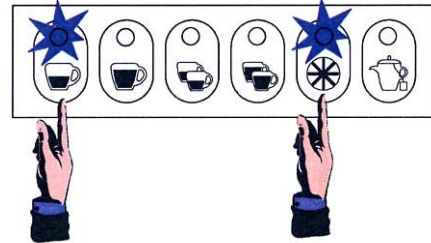
The LED of the key that was programmed switches off. The LED of the key L5GRx blinks, while the LEDs of the remaining un-programmed keys stay on.

- Repeat points 1, 3 and 4 to program other coffee doses (only if the programming TIME-OUT - 5 sec. – was not over)
- If TIME-OUT occurs (the key L5GRx LED stays on), the machine is no longer on the programming mode and all the LEDs stay on. In this case, all the above procedure needs to be repeated in order to program another group.

**IMPORTANT: the programming performed on the 1st group – the one on the left – is ALWAYS automatically transferred to the other groups. Nevertheless, it is possible to program each group independently, following the procedure already described above – steps 1 to 4.**

### 3. WASHING CYCLE

The washing cycle cleans the coffee groups and it must be carried out as follows: Place the blind filter into the filter holder. Put a specific detergent for coffee machines inside the blind filter (equivalent to a full dessert spoon) and place the filter holder in the group to wash. Push the continuous key (K5GRx) and the 1st dose key at the same time. As long as the washing phase is in course, all the LEDs corresponding to the pushed keys, blink and they will only stop if any other key of the group is pushed (in this case, all the other LEDs light up and the washing cycle stops). The washing cycle is composed of 5 cycles of 25 seconds each.



When the washing cycles are over, the machine automatically returns to the position ON.

It is possible to wash several groups at the same time.

### 4. ALARM SIGNALING

#### 4.1 Boiler filling up Time-Out

Each time the maximum level probe (SLmax) doesn't detect water (uncovered probe), the filling up phase (if EVCAR+PUMP are set in synchrony) starts, while the micro-controller activates an inner timer that controls the time length of this phase.

If EVCAR+PUMP work continuously for a period of time superior to the one defined by TIME OUT, (120, 180 or 240 seconds), the volumetric control is deactivated and the keyboard is "disconnected".

All the LEDs of the keyboards blink, in alarm.

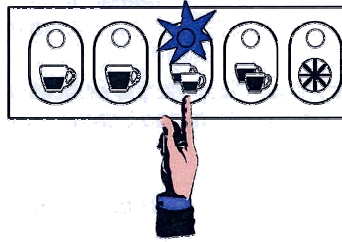


Please turn OFF and ON again the machine to exit the alarm phase

## 4.2 Missing volumetric control impulses (5 seconds)

After having started the volumetric control cycle (EVGRx + BOMBA, both set in dispensing and programming phase), the volumetric control checks the quantity of water dispensed, through impulses sent by the micro-controller.

If any impulse is detected for over 5 seconds, the LED of the selected dose starts blinking.



*BLINKS after 5 sec.*

After 1 minute of absence of any impulse (volumetric control TIME-OUT) the dose in progress is automatically suspended.