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> [KOIOS EM621 Semi-Automatic Espresso Machine User Manual](#)

KOIOS EM621

KOIOS EM621 Semi-Automatic Espresso Machine User Manual

Model: EM621 | Brand: KOIOS

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1. SAFETY INSTRUCTIONS

Please read all instructions carefully before using the KOIOS EM621 Espresso Machine. Retain this manual for future reference.

1.1 General Safety

- Do not immerse the appliance, power cord, or plug in water or other liquids.
- This appliance is for household use only. Do not use outdoors.
- Keep the appliance out of reach of children.
- Always ensure the water tank is filled before operation to prevent damage to the pump.
- Use only cold, fresh water in the water tank.
- Exercise caution when handling hot surfaces and steam. The steam wand can become very hot.
- Do not operate the appliance if the power cord or plug is damaged.
- Ensure the appliance is placed on a stable, level, heat-resistant surface.

1.2 Electrical Safety

- Connect the appliance to a grounded electrical outlet with the correct voltage (120V).
- Unplug the appliance from the outlet when not in use and before cleaning.
- Do not let the power cord hang over the edge of a table or counter, or touch hot surfaces.
- If overheating occurs, unplug the power cord immediately and allow the machine to cool.

2. PRODUCT OVERVIEW

The KOIOS EM621 is a semi-automatic espresso machine designed for home use, featuring a 20-bar pump, PID control, and a steam wand for milk frothing.



Image 1: Front view of the KOIOS EM621 Espresso Machine, showing the control panel, portafilter, and drip tray.

2.1 Components

- **Water Tank:** 58oz (1700ml) removable tank with a transparent design and carrying handle.
- **Control Panel:** Features power button, 1-cup, 2-cup, and Americano buttons, and a pressure gauge.
- **Portafilter:** Holds ground coffee, includes 2 stainless steel filters for different serving sizes.
- **Steam Wand:** 360° rotatable stainless steel wand with anti-scald silicone handle for frothing milk.
- **Drip Tray:** Removable for easy cleaning, with a red indicator knob for excess water.
- **Measuring Spoon:** Included for accurate coffee dosing.

2.2 Controls

- **Power Button:** Turns the machine on/off.
- **1-Cup Button:** Dispenses a single shot of espresso.
- **2-Cup Button:** Dispenses a double shot of espresso.
- **Americano Button:** Dispenses an Americano.

- **Function Knob:** Selects between Coffee, Hot Water, and Steam modes.
- **Pressure Gauge:** Displays brewing pressure.

3. SETUP

3.1 Initial Cleaning

1. Remove all packaging materials.
2. Wash the water tank, portafilter, filters, measuring spoon, and drip tray with warm soapy water. Rinse thoroughly and dry.
3. Wipe the exterior of the machine with a damp cloth.

3.2 Filling the Water Tank

1. Remove the water tank from the back of the machine using its handle.
2. Fill the tank with fresh, cold water up to the MAX line.
3. Place the water tank back onto the machine, ensuring it is securely seated.

3.3 Priming the Machine

Before first use, or if the machine has not been used for a long time, prime the system:

1. Ensure the water tank is filled.
2. Place a cup under the portafilter spout (without coffee).
3. Turn the function knob to the "Coffee" mode limit.
4. Press the 1-cup button. Water will flow through the portafilter. Let it run for about 30 seconds.
5. Turn the function knob to the "Hot Water" mode. Let water flow from the steam wand for about 30 seconds.
6. Turn the function knob back to the neutral position. The machine is now primed.

4. OPERATING INSTRUCTIONS

4.1 Making Espresso

1. **Preheat:** Turn on the machine. Ensure the function knob is set to "Coffee". Wait for the indicator light to turn solid, indicating the machine is preheated.
2. **Prepare Coffee:** Grind fresh coffee beans to a fine espresso grind. Fill the appropriate filter basket (1-cup or 2-cup) with ground coffee.
3. **Tamp:** Use the tamper to press the coffee grounds firmly and evenly into the filter basket. Ensure the surface is level.
4. **Attach Portafilter:** Insert the portafilter into the group head and twist it firmly to the right until it is securely locked.
5. **Place Cup:** Position your espresso cup(s) on the drip tray directly under the portafilter spouts.
6. **Brew:** Press the 1-cup or 2-cup button. The machine will begin brewing. The PID control system ensures optimal water temperature for extraction, and the pre-soak system moistens the grounds for uniform extraction.
7. **Stop:** The machine will automatically stop brewing when the programmed volume is reached. You can manually stop brewing at any time by pressing the button again.

8. **Remove Portafilter:** Carefully remove the portafilter by twisting it to the left. Dispose of the used coffee grounds.

4.2 Frothing Milk

1. **Prepare Milk:** Fill a stainless steel frothing pitcher with cold milk (whole milk is recommended for best results).
2. **Activate Steam:** Turn the function knob to the "Steam" mode. Wait for the steam indicator light to illuminate, indicating the machine is ready to produce steam.
3. **Purge Wand:** Briefly open the steam valve to release any condensed water from the wand. Close the valve.
4. **Froth Milk:** Immerse the tip of the steam wand just below the surface of the milk. Open the steam valve slowly. Move the pitcher up and down to create foam.
5. **Stop Steaming:** Once the desired texture and temperature are achieved, close the steam valve and remove the pitcher.
6. **Clean Wand:** Immediately wipe the steam wand with a damp cloth to prevent milk residue from drying. Briefly open the steam valve again to clear any milk from inside the wand.

4.3 Hot Water Function

To dispense hot water for warming cups or other uses:

1. Ensure the machine is on and preheated.
2. Place a cup under the steam wand.
3. Turn the function knob to the "Hot Water" mode. Hot water will dispense from the steam wand.
4. Turn the knob back to the neutral position to stop the flow.

5. MAINTENANCE

5.1 Daily Cleaning

- **Portafilter and Filters:** After each use, remove the portafilter, discard grounds, and rinse the portafilter and filter basket under running water.
- **Drip Tray:** Empty and clean the removable drip tray daily or when the red indicator knob appears.
- **Steam Wand:** Always wipe the steam wand immediately after frothing milk. Purge the wand to clear any internal residue.
- **Exterior:** Wipe the exterior of the machine with a soft, damp cloth. Do not use abrasive cleaners.

5.2 Water Tank Cleaning

Clean the water tank weekly with warm soapy water. Rinse thoroughly to remove any soap residue.

5.3 Descaling

Regular descaling is essential to maintain machine performance and extend its lifespan. The frequency depends on water hardness and usage.

1. Prepare a descaling solution according to the descaler manufacturer's instructions.
2. Fill the water tank with the descaling solution.
3. Remove the portafilter handle. Place a large water bowl under the coffee spout and another under

the steam wand.

4. Press the 1-cup and 2-cup buttons simultaneously. The machine will begin the descaling cycle.
5. Allow the machine to complete the cycle, or continue cleaning until the water tank is empty.
6. After descaling, rinse the water tank thoroughly and fill it with fresh water.
7. Run several cycles of fresh water through the coffee spout and steam wand to rinse out any remaining descaling solution.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Power button red light flashing, machine not heating.	Function knob not in "Coffee" mode limit or empty water tank.	Ensure the function knob is turned fully to the "Coffee" mode limit. Check and refill the water tank.
Machine malfunctions during operation.	Temporary system error.	Long press the power button for 5 seconds to clear the machine's memory and reset.
Overheating occurs.	Extended use or internal issue.	Unplug the power cord and allow the machine to cool down completely before resuming use.
Coffee puck is watery sludge, not solid.	Insufficient coffee grounds, incorrect grind size, or improper tamping.	Ensure enough coffee grounds are used. Adjust grind size to be finer. Tamp firmly and evenly.
Milk frothing wand not producing steam or poor foam.	Clogged wand, insufficient heat, or improper technique.	Clean the steam wand thoroughly. Ensure the machine is fully heated in "Steam" mode. Review frothing technique.

7. SPECIFICATIONS

- **Brand:** KOIOS
- **Model:** EM621
- **Coffee Maker Type:** Semi-Automatic Espresso Machine
- **Pump Pressure:** 20 Bar
- **Power:** 1200W
- **Water Tank Capacity:** 58oz (1700ml)
- **Material:** Stainless Steel exterior
- **Product Dimensions:** 11.61"D x 11.61"W x 6.3"H
- **Item Weight:** 8.71 pounds
- **Special Features:** PID Control System, Smart Pre-soak System, 360° Steam Wand, 3 Extraction Choices (1 cup, 2 cups, Americano), Hot Water Function, Descaling Function.
- **Included Components:** Espresso Machine, 2 Stainless Steel Filters, Measuring Spoon, Removable Drip Tray, Steam Wand, Water Tank.

8. WARRANTY & SUPPORT

The KOIOS EM621 Espresso Machine comes with a **1-year warranty**.

If you have any questions, encounter issues, or require assistance with your product, please contact the KOIOS after-sales support team. Refer to the contact information provided in your product packaging or on the official KOIOS website for the most up-to-date support details.