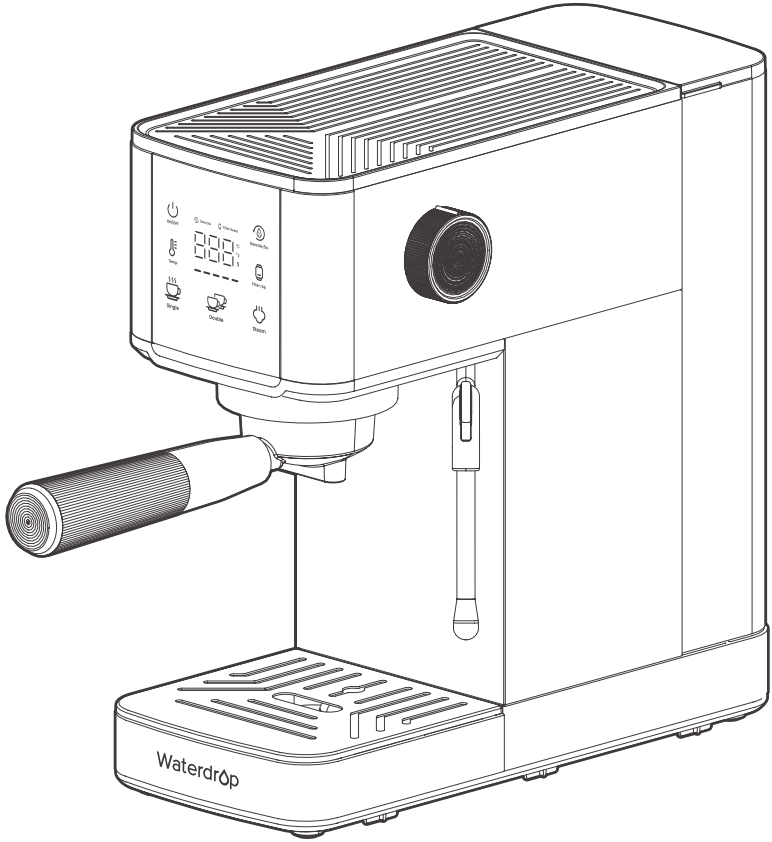
Waterdrop



MC2 Semi-Automatic Espresso Machine

User Manual

WD-MC-02

IMPORTANT SAFEGUARDS

When using electrical appliances, basic safety precautions should always be followed, including the following:

1. Read all instructions.
2. Do not use outdoors.
3. Household use only.
4. Do not immerse into water.
5. Do not use appliance for other than intended use.
6. Unplug from outlet when not in use and before cleaning.
7. Allow to cool before putting on or taking off parts, and before cleaning the appliance.
8. Do not operate any appliance with a damaged cord or plug or after the appliance malfunctions, or has been damaged in any manner. Return appliance to the nearest authorized service facility for examination, repair or adjustment.
9. The use of accessory attachments not recommended by the appliance manufacturer may result in fire, electric shock or injury to persons.
10. If the SUPPLY CORD is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
11. Always attach plug to appliance first, then plug cord into the wall outlet. To disconnect, turn any control to "off," then remove plug from wall outlet.
12. Please avoid liquid spillage into the electrical base connection,if this occurs ensure it is dried out before attempting to use again.
13. Remove all obstructions around the dispenser or inside the embedded structure where it is placed, and maintain proper ventilation.
14. Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
15. WARNING: When positioning the appliance, ensure the supply cord is not trapped or damaged.
16. WARNING: Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
17. Do not place on or near a hot gas or electric burner, or in a heated oven.
18. Do not let cord hang over edge of table or counter, or touch hot surfaces.
19. This appliance can be used by children aged from 8 years and above if they have been given supervision or instruction concerning use of the appliance 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 appliance and its cord out of reach of children aged less than 8 years.
20. This appliance 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 been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
21. Children should be supervised to ensure that they do not play with the appliance.

22. This appliance is intended to be used in household and similar applications such as:
– staff kitchen areas in shops, offices and other working environments;
– farm houses;
– by clients in hotels, motels and other residential type environments;
– bed and breakfast type environments.
23. Extension cord instruction:
a) A short power-supply cord is provided to reduce risks resulting from becoming entangled in or tripping over a longer cord.
b) Longer extension cords are available and may be used if care is exercised in their use.
c) If a long extension cord is used:
– The marked electrical rating of the detachable power-supply cord or extension cord should be at least as great as the electrical rating of the appliance;
– If the appliance is of the grounded type, the extension cord should be a grounding-type 3-wire cord; and
– The longer cord should be arranged so that it will not drape over the counter top or table top where it can be pulled on by children or tripped over.
24. CAUTION - The heating element surface is subject to residual heat after use.
25. Scalding may occur if the lid is removed during use.
26. This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit into a polarized outlet only one way. If the plug does not fit fully into the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not attempt to modify the plug in any way.

SAVE THESE INSTRUCTIONS.

Thank you for choosing Waterdrop!

Please **CALL us first** if you need **ASSISTANCE** in operation, replacement, return or any issues.
Your satisfaction will be **guaranteed.**

+1-888-352-3558 (U.S.)
CT@waterdropfilter.com

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1. PREPARATION

1.1 Precautions

NOTE:

- Read all instructions carefully and keep them for future reference.
- This espresso machine is for and should be used only for making coffee or frothing milk.
- Follow all safety instructions to ensure proper use.

⊘ Prohibition	
▸ **DO NOT** immerse the cord, plug, or appliance in water or any liquid.	▸ **DO NOT** place the machine near gas burners, stoves, or ovens.
▸ **DO NOT** run the machine without water.	▸ **DO NOT** remove the portafilter during brewing or when steam or hot water is escaping.
▸ **DO NOT** use unauthorized accessories or attachments.	▸ **DO NOT** let the power cord hang over table edges or touch hot surfaces.
▸ **DO NOT** allow children to operate the machine unsupervised.	▸ **DO NOT** remove the outer cover or modify the machine.

⚠ Warning	
▸ Ensure the wall outlet voltage matches the rating on the appliance label before use.	
▸ If the power cord or plug is damaged, stop using immediately and contact authorized service.	▸ Keep the power cord and machine out of reach of children under 8 years old.
▸ People with reduced physical, sensory, or mental capabilities should use this machine only under supervision.	▸ Use caution with steam — it can cause burns.
▸ Unplug before cleaning or when not in use, and allow the machine to cool before removing or attaching parts.	▸ Release steam pressure through the steam wand before removing the portafilter or water tank.

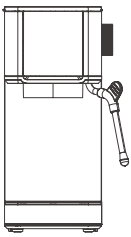
ⓘ Attention	
▸ Place the espresso machine on a flat, stable surface.	▸ Use handles or knobs to avoid touching hot surfaces.
▸ Keep the machine away from heat sources and flammable materials.	▸ Unplug by holding the plug, not the cord.
▸ Allow the machine to cool completely before cleaning.	▸ For best performance, use only manufacturer-approved filters and accessories.
▸ Any service or repair other than routine cleaning must be performed by authorized personnel only.	

1. PREPARATION

1.2 Before Using

- Refer to the user manual, check and ensure all parts are included and undamaged.
- If any part is cracked or missing, please contact our customer service.

1.3 Unit & Accessories List



Unit



Filter



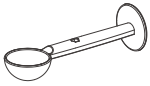
Portafilter



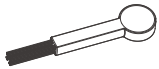
Single Shot Basket



Double Shot Basket



Coffee Scoop

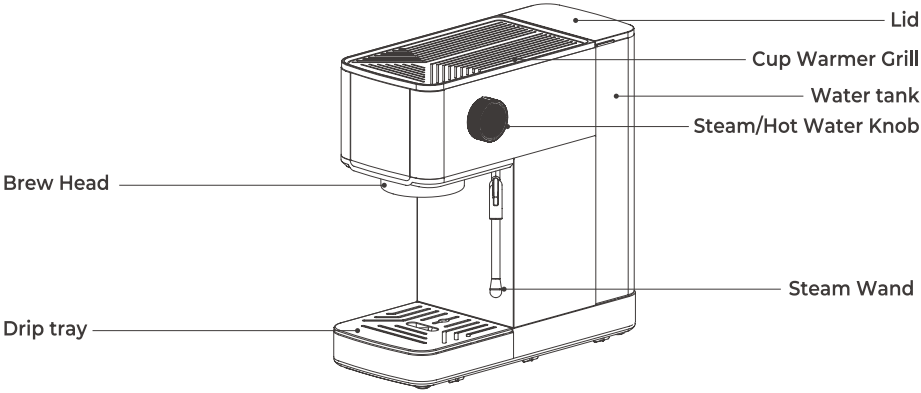


Cleaning Brush:
Coffee grounds basket cleaning



Cleaning Needle:
Large needle: Steam wand cleaning
Small needle: Portafilter basket cleaning

1.4 Unit Overview



1. PREPARATION

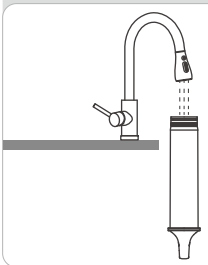
1.5 Unit Specifications

Product Model	US-WD-MC-02-M/ US-WD-MC-02-C	DE-WD-MC-02-M/ DE-WD-MC-02-C	UK-WD-MC-02-M/ UK-WD-MC-02-C
Replacement Filter Model	WD-MCF-52-CM/WD-MCF-52-CW		
Filter Life	50 L		
System Size (L × W × H)	16.22 in × 5.12 in × 8.07 in		
	41.2 cm × 13 cm × 20.5 cm		
Feed Water Tank Capacity	40 oz/1.2 L		
Rated Voltage	120 V	220-240V~	
Rated Power	1350 W		
Rated Frequency	60Hz	50 Hz	
Feed Water Requirement	Municipal tap water		
Feed Water Temperature	41-100 °F/5-38 °C		

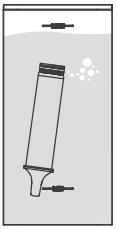
2. INSTALLATION & FLUSHING

2.1 Insert the Filter

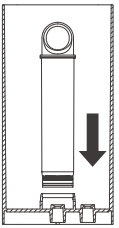
1. Run water through the center of the filter until it flows out of the side openings for over 1 minute.



2. Hold the filter upright under water for 5 minutes to release air bubbles.



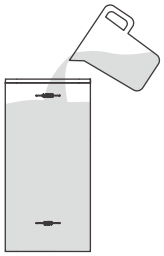
3. Insert it into the coffee machine's water tank.



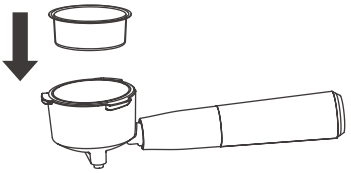
Friendly Reminder: Please follow Steps 1 and 2 to remove air from the filter before inserting it. If air is not released, water may not flow immediately during brewing or hot water dispensing. Black water during rinsing is normal. It is caused by harmless carbon dust from activated carbon during transport. Simply rinse and use with confidence.

2.2 Flush the Unit

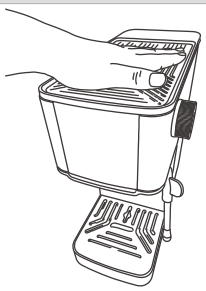
1. Fill the water tank to the MAX line, then close the lid.



2. Place the coffee shot basket into the portafilter.



3. Hold the machine steady with one hand.

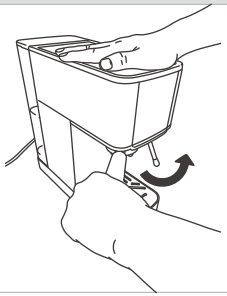


4. Insert the portafilter into the group head, aligning it with the “LOCK” mark.

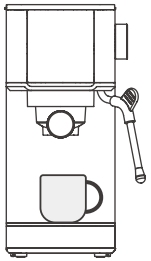


2. INSTALLATION & FLUSHING

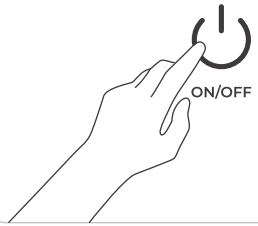
5 Turn the portafilter from left to right to lock it in place.



6 Place a container on the drip tray.



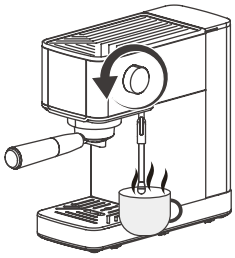
7 Plug in the machine and turn it on.



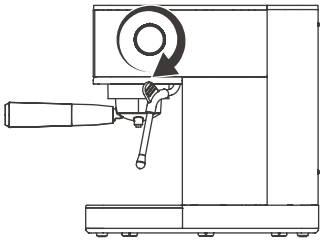
8 Tap the "Single" or "Double" key to release water.



9 Place a container under the steam wand and turn the steam knob right to release water.



10 Return the steam knob to "OFF" after the water is fully drained.

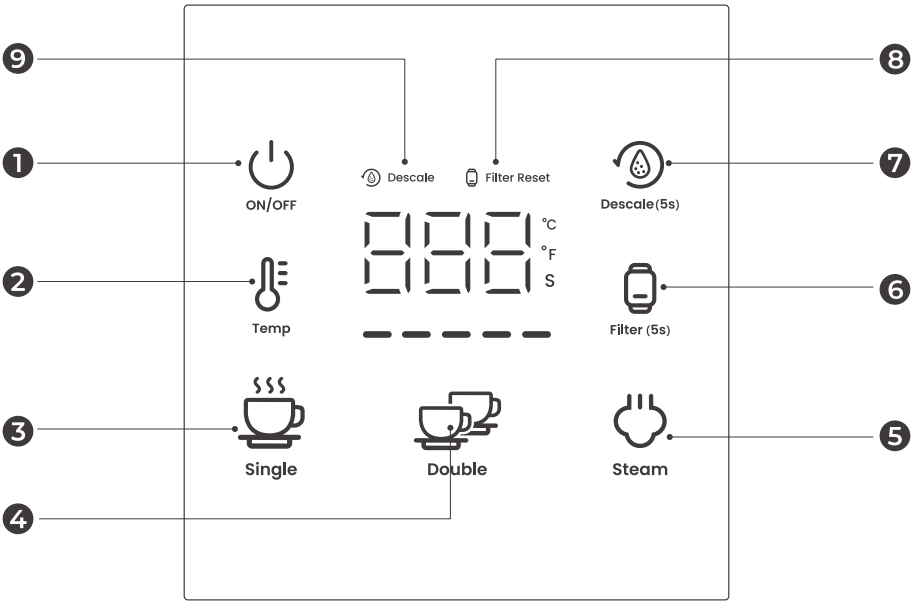


For the best taste, repeat steps ⑧ and ⑨ until two full tanks of water are used. Then you're ready to enjoy great coffee.

Note: Hot water pauses automatically after 60 seconds. To resume, turn the knob off, then turn it on again.

3. OPERATING GUIDE

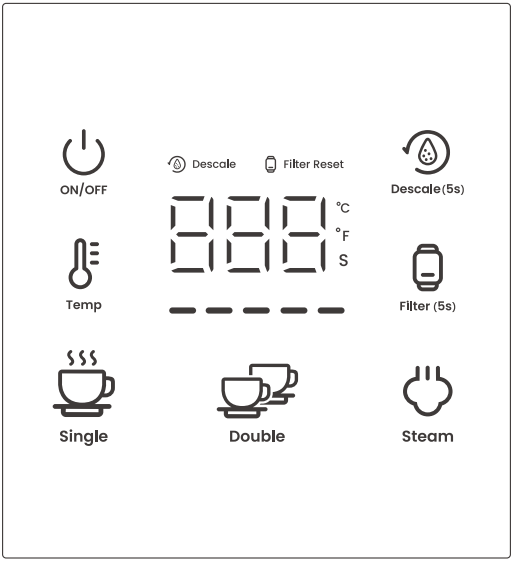
3.1 Indicator Meanings



1. Power On/Off
2. Temperature Adjustment
3. Single Shot Extraction
4. Double Shot Extraction
5. Steam Frothing
6. Filter Life Reset: Press and hold for 5s to reset the filter life after replacing the filter.
7. Descale Mode Reset: Press and hold for 5s to reset the descaling cycle after descaling.
8. Filter Reset Light On: White = 20% filter life left, Orange = 10%, Red = 5% — please replace the filter soon.
   Filter Reset Red Light Flashing: The filter has expired — please replace it immediately.
9. Descale Light On: Please descale soon.

3. OPERATING GUIDE

3.2 Preference Settings



Brew Time Setting

1. Place a cup under the boiler outlet.
2. Press and hold "Single" for 3s until the screen flashes "15s."
3. Tap the "Single" to dispense water. The time on the display will change.
4. When it reaches your desired time, tap "Single" again to save.

*To set the double-shot time, press and hold the Double button.

Pre-Infusion Time Setting

1. Press and hold "On/Off" and "Double" for 3s to enter the setting mode.
2. Tap "Single" to decrease the time by 1 second; tap "Double" to increase the time by 1 second.
3. Tap "On/Off" to save, or wait 10s for auto-save.

Recommended Brewing Temperatures

195°F / 90°C: Best for dark roast coffee. Helps reduce bitterness and burnt flavors.

200°F / 93°C: Best for medium roast coffee. Delivers a more balanced flavor.

205°F / 96°C: Best for light roast coffee. Increases extraction for more sweetness and body.

Temperature Unit Setting

1. Press and hold "Temp" for 5 seconds to switch between °F and °C.
2. Tap "On/Off" to save, or wait 10s for auto-save.

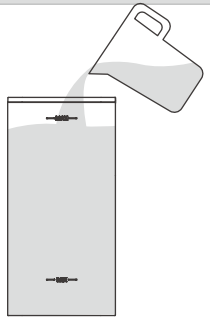
Tips

Higher temperatures extract more flavor and enhance sweetness and body, making them better for light roasts. Lower temperatures help reduce bitterness and burnt notes, making them better for dark roasts.

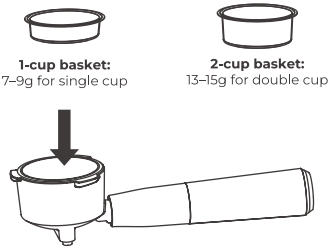
3. OPERATING GUIDE

3.3 Coffee Brewing Guide

1 Fill the water tank to the MAX line, then close the lid.

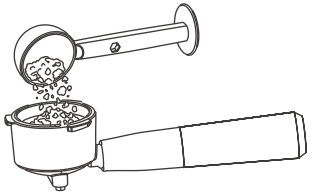


2 Place the coffee shot basket into the portafilter.

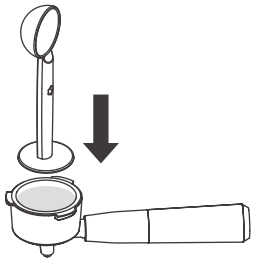


3 Use the coffee scoop to add coffee grounds.

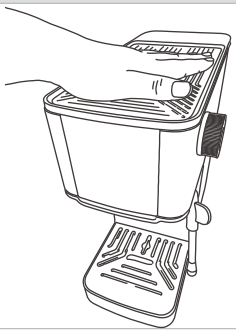
Tip: Grind Size Matters – Aim for a texture like table salt: fine, but not powdery. Avoid using too finely ground coffee.



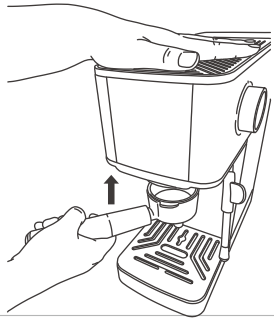
4 Evenly and firmly tamp the coffee grounds.



5 Hold the machine steady with one hand.

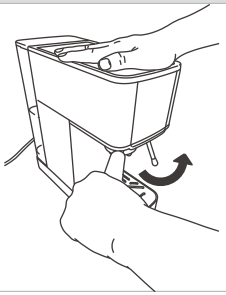


6 Insert the portafilter into the group head, aligning it with the “LOCK” mark.

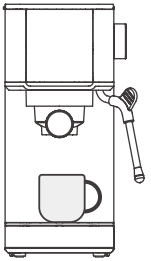


3. OPERATING GUIDE

7 Turn the portafilter from left to right to lock it in place.



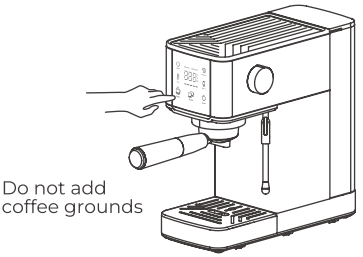
8 Place a cup under the boiler outlet.



9 Tap "Single" or "Double" key and wait for extraction.



10 After brewing, insert an empty coffee basket and tap the "Double" to rinse the brew head.



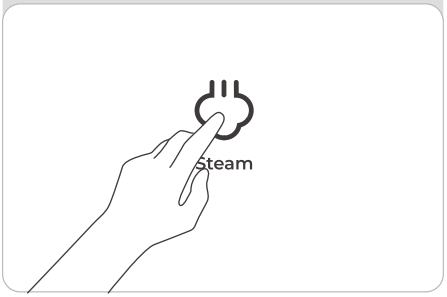
Tips for Hotter Espresso

To get the best temperature and flavor, preheat the machine and your cup before brewing:
▸ Turn on the machine and lock the portafilter in place without coffee grounds.
▸ Place your cup under the portafilter — using the same cup you'll drink from helps preheat it.
▸ When the "Single" or "Double" light turns on, tap the button to run hot water through the portafilter.
▸ Empty the cup, then repeat the flush once more. (A small puff of steam when removing the portafilter is normal.)

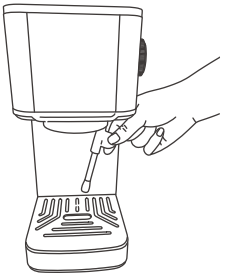
3. OPERATING GUIDE

3.4 Frothing Milk Guide

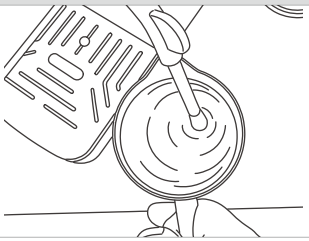
1. Tap the "Steam". The light flashes while heating and stays on when ready.



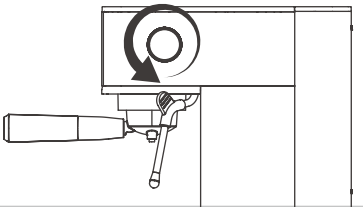
2. Point the steam wand at the drip tray, turn the knob to the left to release water, then turn it fully back to OFF.



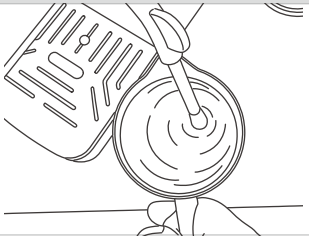
3. Fill the milk jug between the MIN and MAX marks. Insert the steam wand into the milk, with the tip 1–2 cm (¾ inch) below the surface, near the 3 o'clock position.



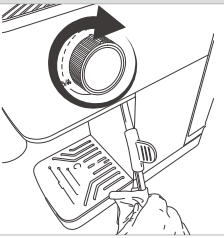
4. Turn the knob to start steaming. Keep the tip just under the surface until the milk spins, then lower the jug slightly to introduce air and create smooth foam.



5. Once enough foam forms, raise the jug slightly to keep the tip below the surface and continue heating. The milk is ready at 60–65°C, when the jug feels hot to the touch.



6. Turn the knob back to OFF and wipe steam wand with a damp cloth.



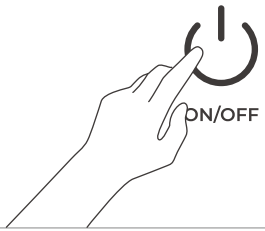
Milk Beverage Tips

▸ Use cold milk for best results. Milk should be refrigerator-cold (never warm). We recommend using 2% milk.
▸ Choose the right jug size. Milk will double or even triple in volume when steamed, so ensure the jug is large enough.
▸ For cappuccinos: Brew the espresso shot first, then froth the milk and pour it into the espresso.

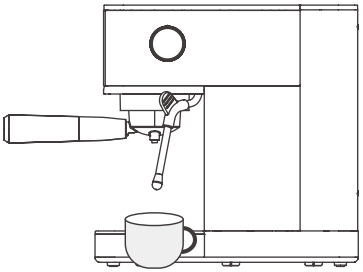
3. OPERATING GUIDE

3.5 Hot Water Guide

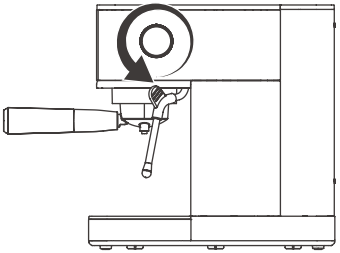
1. Tap "ON" to power on the machine. Wait a few seconds until the indicator light changes from flashing to solid.



2. Place a cup under the steam wand. Aim the wand toward the side of the cup to create a swirl and prevent splashing.



3. Turn the knob to the left fully to dispense hot water. When enough hot water is dispensed, turn the knob back to OFF.
Note: Make sure it is fully closed to prevent leaking.



Tips

- Hot water runs for up to 60 seconds per use.
- If time is exceeded, the " " and " " keys will flash quickly.
- To continue, turn the knob to OFF, then turn it on again.

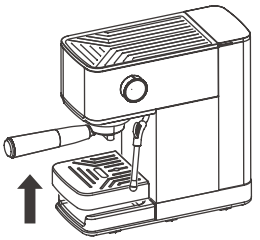
4. CLEANING & MAINTENANCE

NOTE:

▸ **DO NOT** use solvents, abrasive cleaners, or alcohol to clean the coffee machine.
▸ **DO NOT** use metal objects to remove coffee deposits as they may scratch surfaces.
▸ **Danger!** Never immerse the coffee machine in water while cleaning. It is an electrical appliance.
▸ If the machine hasn't been used for more than 3-4 days, we suggest flushing the internal circuits before using it. Please check the user manual (page X) for details.
▸ Before cleaning the exterior, **turn off the machine**, unplug it, and allow it to cool down.

4.1 Cleaning the Drip Tray

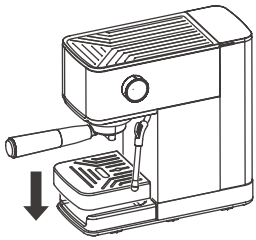
1. Lift the drip tray upward and remove it from the machine.



2. Take out the cup grille, empty any water, and clean the tray with a cloth.

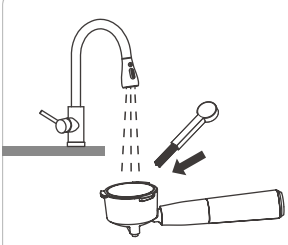


3. Reassemble the drip tray and place it back into the machine.

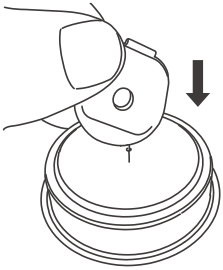


4.2 Cleaning the Coffee Shot Basket

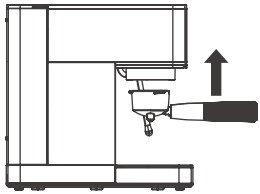
1. Remove the coffee shot basket and rinse it under running water.



2. Check for blockages in the basket holes. If needed, clean them with a pin (C5).



3. Reinstall the coffee shot basket once cleaned.



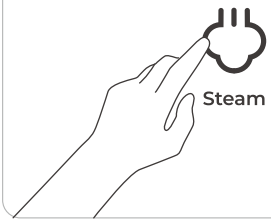
4.3 Cleaning the Brew Head

After brewing every 200 cups of coffee, rinse the brew head by dispensing approximately 0.5 liters of water. To do this, press the "Double" key without adding any coffee grounds.

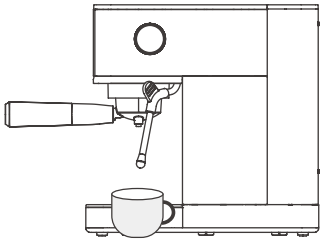
4. CLEANING & MAINTENANCE

4.4 Cleaning the Steam Wand

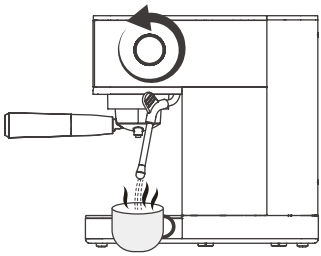
1. Press the "Steam" button. When the steam light stays on, it's ready.



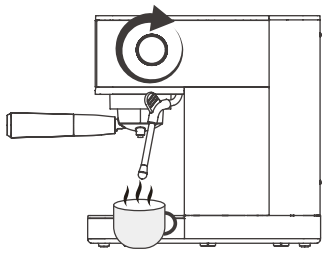
2. Put a cup under the steam wand.



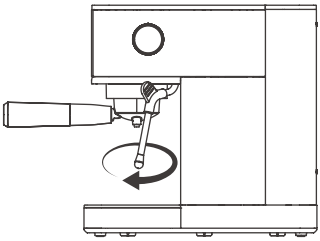
3. Turn the steam knob to the left. Steam will flow from the steam wand for up to 90 seconds.



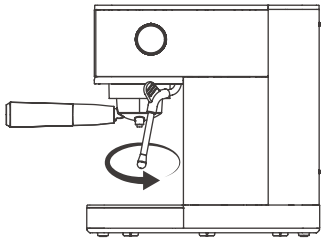
4. Turn the steam knob back to "OFF" when you're done.



5. Let the steam wand cool. Remove the tip by turning it right. Rinse it. Use a pin to clear any clog in the hole.



6. Put the steam tip back on the wand. Twist it to the left until snug.



4.5 Cleaning the Water Tank

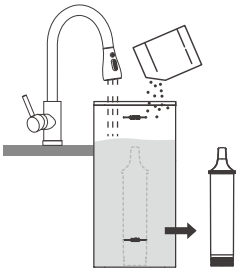
1. Once a month, clean the water tank with a damp cloth and a small amount of mild dish soap.
2. Rinse the tank thoroughly to remove any soap residue.

4. CLEANING & MAINTENANCE

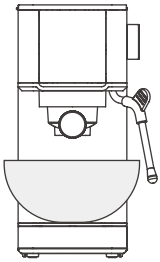
4.6 Descaling Instructions

To keep the machine performing at its best, please descale it when the "Descale 5s" indicator lights up.

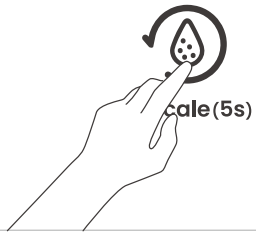
1. Remove the filter. Fill the water tank and add a descaling solution.



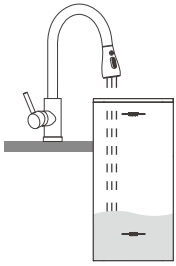
2. Place a container of at least 2 L (68 oz/0.5 gal) under the brew head.



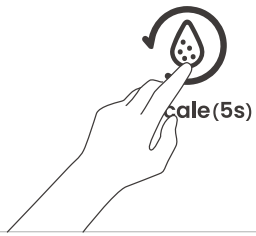
3. Turn on the machine. Press and hold the "Descale (5s)" to start. The process runs for about 540 s.



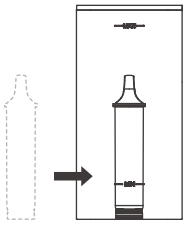
4. When finished, discard the water, rinse the tank, and refill it with clean water.



5. Tap the "Descale (5s)" to flush the system with clean water. When the tank is empty, refill it and repeat. Continue until the "Descale (5s)" light flashes three times.



6. Reinstall the filter. Run a brew or hot water cycle to release air from the filter. The machine is ready for use.



Force Reset the Descaling Program

Press and hold the "Single" and "Descale (5s)" together for 3 seconds to reset the descaling timer.

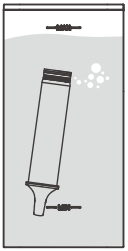
4. CLEANING & MAINTENANCE

4.7 Filter Replacement

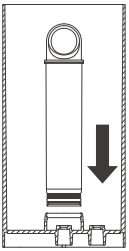
Replacement Filter Model	Replacement Cycle
WD-MCF-52-CM/WD-MCF-52-CW	50 L or 2 months

Filter Replacement Steps

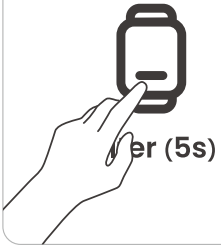
1. Remove the new filter from its packaging. Pre-soak it in water for 5–10 minutes to rinse and remove air bubbles.



2. Insert the filter into the coffee machine's water tank and press down firmly to secure it in place.



3. Press and hold "Filter 5s" for 5 seconds to reset the filter life.



Tip: Before brewing coffee, dispense hot water to release air from the filter. Then brew as normal.

5. TROUBLESHOOTING

Problem Description	Possible Reason	Solution
Coffee grounds are very damp	Not enough ground coffee.	Add more ground coffee.
	Coffee is not tamped firmly.	Tamp the coffee more firmly.
No coffee is delivered	Water tank is low or empty.	Fill the water tank.
	Coffee shot basket is clogged or dirty.	Clean the coffee shot basket. Please refer to the user manual (page 11) for details.
	Limescale buildup in the water circuit.	Descale the machine. Please refer to the user manual (page 13) for details.
Coffee drips from the edges of the portafilter	Portafilter is not inserted correctly.	Reinsert the portafilter and rotate firmly until locked.
	Portafilter spout holes are clogged.	Clean the spout holes.
	Boiler gasket is worn or dirty.	Replace the boiler gasket.
Coffee is not hot enough	Cups were not preheated.	Preheat the cups.
	Limescale buildup in the water circuit.	Descale the machine. Please refer to the user manual (page 13) for details.
No crema on the espresso	Coffee grounds are not fresh.	Use freshly ground coffee.
	Grind size is not suitable for espresso.	Use a finer grind size.
	Too little coffee in the basket.	Add more ground coffee.
	Coffee is not tamped firmly.	Tamp the coffee more firmly.
The pump is excessively noisy	Water tank is low or empty.	Fill the water tank.
	The tank is not correctly positioned.	Press the tank down lightly to open the valve.
	Air bubbles in the tank connector.	Press the steam button to release hot water. Please refer to the user manual (page 10) for details.

5. TROUBLESHOOTING

Problem Description	Possible Reason	Solution
The water tank leaks when lifted	The valve at the bottom of the tank is dirty or defective.	Clean the water tank.
	The valve is blocked by limescale.	Descale the machine. Please refer to the user manual (page 13) for details.
The coffee is dripping too slowly	Too much coffee grounds in the basket.	Reduce the quantity of coffee grounds.
	Portafilter spout holes are clogged.	Clean the spout holes.
	The coffee grounds are excessively fine or damp.	Use only pre-ground coffee suitable for espresso makers and make sure it is not damp.
	The wrong type of pre-ground coffee is being used.	Use a different type of pre-ground coffee.
The coffee has an acidic taste	Inadequate rinsing after descaling.	Rinse with two full tanks of clean water after descaling.
No milk froth is formed when making cappuccino	Milk is not cold enough.	Always use 2% milk at refrigerator temperature.
	The steam wand is not clean.	Clean the steam wand. Please refer to the user manual (page 12) for details.
	Limescale buildup in the water circuit.	Descale the machine. Please refer to the user manual (page 13) for details.
The "ON/OFF" and "Single" keys are flashing rapidly at the same time.	Steam knob is not fully closed.	Turn the steam knob clockwise to the OFF position.
The "ON/OFF" and "Double" keys are flashing rapidly at the same time.		
The "ON/OFF" and "Double" keys are flashing rapidly at the same time.		

6. WARRANTY

Warranty Duration: 1 year from the original purchase date.
Coverage: Defects in materials and workmanship under normal use.
Warranty Measures: Repair or replacement of defective parts, or refund (minus shipping costs).

Exclusions:
- Tampering, alteration, improper use, or lack of maintenance.
- Filters that need regular replacement due to usage.
- Unit is bought from unauthorized sellers.
- Damage in transit is not covered; claims should be made with the carrier.

Warranty Conditions:
- Working conditions: 40-100 °F (5-38 °C)
- Feed water pH value: 6.5-8.5
- Turbidity: less than 1.0 NTU
- TDS: less than 500 ppm

Note:
If your state **DOES NOT** permit restrictions on warranty terms, you have the option to return the unit. Keeping it means that you agree to the specified warranty limitations.

Certified model: US-WD-MC-02-C/ US-WD-MC-02-M

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Intertek
5023095
Conformsto:ULSTD.1082&982
Certified to CSA STD.
C22.2 No.60335-1 &
60335-2-15 & 1335.1 & 1335.2.14

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.
⚠ **WARNING:** Cancer and Reproductive Harm- www.P65Warnings.ca.gov.

Waterdrop

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