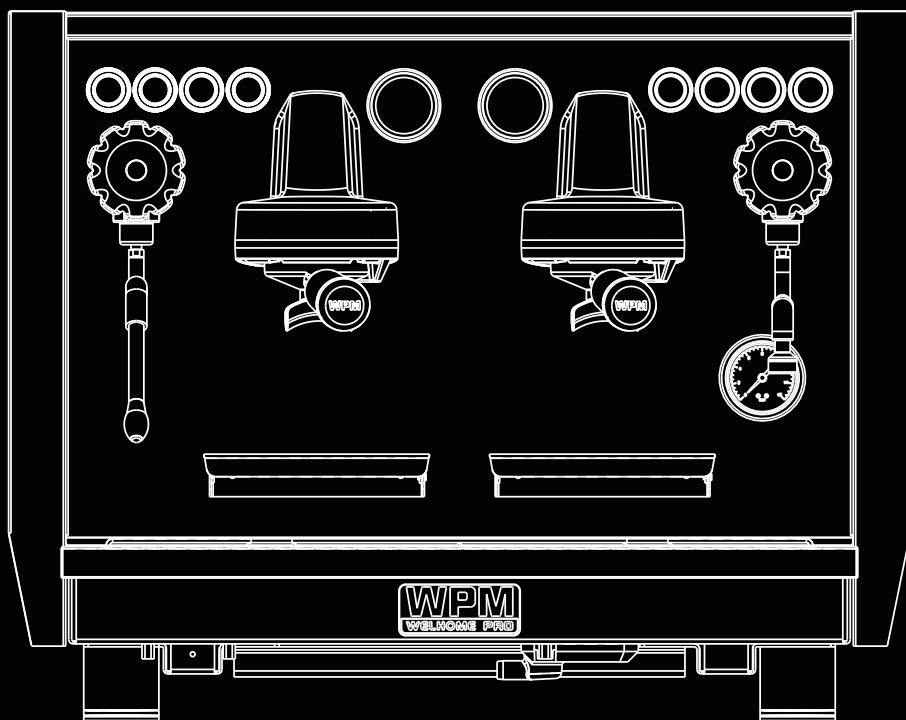


WPM
WELHOME PRO

Espresso Machine
KD-510 Series

Instruction Manual



Content

General Rules	2
---------------------	---

be used by qualified, authorized technical staff.

Installation Rules	3
Electrical Installation Rules	4
Equipotential bonding	5
Water Installation Rules	6
Installation Check-up	7

The parts of KD-510 series	8
----------------------------------	---

The guidelines of control panel 's operation	9
--	---

The guidelines of LED display	9-12
-------------------------------------	------

- Error Code	12
--------------------	----

Operation instructions	13-14
------------------------------	-------

Setting	14-16
---------------	-------

Cleaning and maintenance	17-18
--------------------------------	-------

Rules for the worker operating the machine	19
--	----

Caution	20
---------------	----

Product Specifications	21
------------------------------	----

Thank you for purchasing Espresso Machine by WPM.

Pleaseread this manual carefully before using the machine.

General Rules

Please read the warnings and rules in this User's Manual carefully before using or handling the machine in any way because they provide important information regarding safety and hygiene when operating the machine. Keep this booklet handy for easy reference.

- The machine was designed solely for preparing espresso coffee and hot beverages using hot water or steam, and for warming cups.
- The machine must only be used by suitably trained employees who are well aware of the possible risks that can occur when operating the machine.
- The machine is for professional use only.
- The machine must not be used by children or by people with physical, sensorial, or mental impairments: if such people use the machine, they must be supervised during operation.
- The machine must not be left unattended.
- The machine must not be used outdoors.
- If the machine is stored in rooms where the temperature can drop below freezing, empty the boiler and water circuit tubes.
- Do not expose the machine to atmospheric agents (rain, sun, and cold).
- Noise: assessed acoustic pressure level 70db(A) (+/- 1db).
- If the machine is used improperly or for purposes other than those described above, it can be a source of danger. The manufacturer will not be held responsible for damages caused by improper use of the machine.

Installation Rules

WARNING:

Installation, dismantling, and adjustments must only be performed by qualified and authorized technicians.

Carefully read the warnings and rules in this manual because they provide important information regarding safe installation, use and maintenance of the machine.

Keep this booklet handy for easy reference.

- After removing the machine from its packing materials, make sure that the machine and its safety devices are intact.
- If the power supply cord is damaged, it can only be replaced by qualified and authorized technicians.
- Packing materials (plastic bags, polystyrene foam, staples, etc.) must be kept out of the reach of children because they are potentially hazardous.
- Before plugging in the machine, make sure that the information on the name-plate (voltage, etc.) matches that of the electrical and water systems.
- Completely unwind the power supply cable.
- The coffee machine should sit on a flat, stable surface at least 20 mm from walls and from the counter. Keep in mind that the highest surface on the machine (the cup warmer tray) sits at a height of at least 1.2 meters. Make sure there is a shelf nearby for accessories.
- Room temperature must range between 10° and 32°C (50°F and 90°F).
- An electrical outlet, water connections, and a drain with siphon must be in the immediate vicinity.
- Do not install in rooms (kitchens) that are cleaned with jets of water.
- Do not clean the machine with jets of water.
- Do not obstruct openings or ventilation and heat vents.
- Do not install the machine outdoors.
- The single steamer version (KD-510) connects with plug. The double steamer version (KD-510DS) has no plug and it must be connected.
- Please use filtered water.

Electrical Installation Rules

Prior to installation, make sure there is a circuit breaker installed with a distance between the contacts that allows for complete disconnection when there is a category III overload and that provides protection against current leakage equal to 30 mA. The circuit breaker must be installed on the power supply in compliance with installation rules.

If the power supply is not working properly, the machine can cause transitory voltage drops.

The electrical safety of this machine is only ensured when it is correctly connected to an efficient earthing system in compliance with the electrical safety laws in force. This fundamental safety requirement must be verified. If in doubt, request that a qualified electrician inspect the system. The manufacturer cannot be held responsible for any damage caused by the lack of an earthing system on the electrical supply.

It is unadvisable to use adaptors, multiple plugs, and/or extension cords. If their use is indispensable, only use simple or multiple adaptor plugs and extension cords that are in compliance with safety laws. Make sure these devices do not exceed the voltage capacity marked on the simple adaptor and on extension cords, and the maximum voltage marked on the multiple adaptor.

Equipotential bonding

Some legal requirements require this connection to avoid potential differences between the grounding devices of the various devices installed in the same location. The single-steam version (KD-510) is grounded in the plug, and the self-connecting wires and plugs is required for the dual-steamer version (KD-510DS). The following connections must be made before the installation is completed.

- Select the appropriate conductor and its cross section area should comply with the legal requirements
- one end is connected to the terminal and the other end is connected to the grounding device of the adjacent device

If this safety measure is not taken, the manufacturer is not responsible for any person is injured or damage of the material.

Note:The power cord of the grounding device cannot be used as an equipotential bonding conductor. Do not connect to the grounding device of the power distribution equipment.

Note:The company is not responsible for any damage caused by incorrect circuit connection. The installer is fully responsible for such damage.

Water Installation Rules

WATER REQUIREMENTS

Water used in coffee machines must be potable and suitable for human consumption (see laws and regulations in force).

Check on the machine's water inlet that:

- the pH level complies with the laws in force
- the chloride value is less than 100 mg/l

If the values do not fall within the limits, an appropriate water treatment device must be inserted (respecting the local laws and compatible with the machine).

WARNING

Only use the supplied parts for installation. If other parts are installed, they must be new (not used) and they must be able to come in contact with potable water suitable for human consumption (according to local laws in force).

WATER CONNECTIONS

Place the machine on a flat surface and stabilize it by adjusting and securing the feet. Hook up the water connections , respecting the hygiene, water safety, and antipollution laws in of installation.

Note: If the water pressure can rise above six bar, install a pressure reducer set at 2-3 bar.

WATER DRAINING TUBE:

place the end of the water draining tube in a drain with a siphon for inspection and cleaning.

IMPORTANT: The curves of the draining tube must NOT bend .

Installation Check-up

WARNING: AFTER INSTALLATION, CHECK TO SEE IF THE MACHINE IS WORKING PROPERLY (see the Installation Module C)

WATER CONNECTIONS

- No leaks from the connections or tubes

Electronic heating

- The heater/boiler is operating normally

FUNCTIONING

- Boiler and operating pressures are normal.
- The pressure gauge is working properly.
- The self-leveling device is working properly.
- The expansion valves are working properly

WARNING: ONCE THE MACHINE HAS BEEN INSTALLED AND IS READY FOR USE, BEFORE ALLOWING THE WORKER TO START USING THE MACHINE, WASH THE INTERNAL COMPONENTS ACCORDING TO THE INSTRUCTIONS BELOW:

GROUPS

- Hook up the filter holders to the groups (without coffee).
- Let each group dispense water for about a minute.

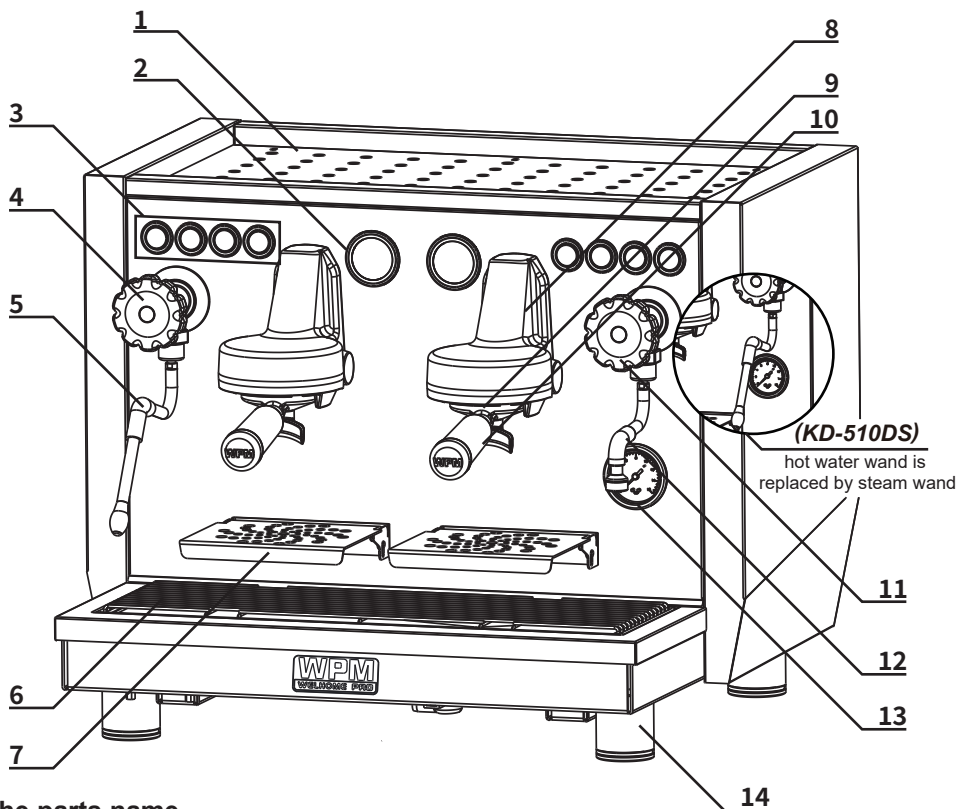
HOT WATER (KD-510 only)

- Continuously dispense hot water (pressing the appropriate button) until at least 2 liters of water have been used for a machine

STEAM

- Dispense steam from the nozzles for about a minute, using the appropriate buttons.

The parts of KD-510 series



The parts name.

(KD-510DS has no hot water wand, which is replaced by steam wand)

- | | |
|------------------------|--|
| 1. Cup warmer | 9. 58mm Commercial size group head |
| 2. LCD display | 10. Commercial size sloping group handle |
| 3. Control panel | 11. Hot water control knob
(Steam control knob) |
| 4. Steam control knob | 12. Hot water wand
(steam wand) |
| 5. Steam wand | 13. Pressure gauge |
| 6. Drip Tray | 14. Adjustable feet |
| 7. Standard cup holder | |
| 8. Coffee group head | |

Other parts.

Group Handle
(Single spout x 1,
Double spout x 1)



x 2

Tamper



x 1

**Single filter
basket**



x 1

**Double filter
basket**



x 2

Cleaning disc
(put it into group han-
dle with cleaning tablet)



x 1

The guidelines of control panel 's operation



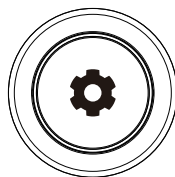
Manual Mode /



Single cup /



Double cup /



Setting /

进入设定后

Select

Down

Up

Return

Manual mode

Press the "manual mode" key to start dispensing. Press it again to stop dispensing

Single cup

Press the "single cup" button to start brewing. The machine will stop at the preset volume or when the user press the "single cup" button again. Please refer to the "setting" section for the volume adjustment.

Double cup

Press the "double cup" button to start brewing. The machine will stop at the preset volume or when the user press the "double cup" button again. Please refer to the "setting" section for the volume adjustment.

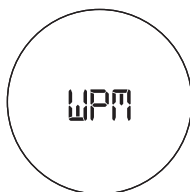
Setting

Press "setting" button to enter the setting profile. Please refer to the "setting" section for the volume adjustment.

The guidelines of LED display

The following section shows different instruction for each display.

Preheat



Standby



Coffee Heating



The temperature of coffee boiler will continue to rise and flash until it enters "standby mode"

Steam heating



"OK" will be shown on the screen, when the steam is ready,

Main menu

Press "  " to enter main menu

Press "  " to move backward

Press "  " to move forward

List of main menu

List of main menu

Steam Heater

Coffee temperature

Pre-infusion

Press "  /OK " to enter

Press "  " to return from main menu

Backlight

Cleaning

Default setting

Steam pressure

*the whole wording would not be shown in the screen



Please refer to "setting" section (P.15) for further instruction of adjusting the steam pressure.

Steam heater

*the whole wording would not be shown in the screen



Please refer to "setting" section (P.15) for further instruction of adjusting the steam heater.

Coffee temperature



Please refer to "setting" section (P.15) for further instruction of adjusting the coffee temperature.

Pre-infusion

*the whole wording would not be shown in the screen



Please refer to "setting" section (P.15) for further instruction of adjusting the pre-infusion.

Backlight



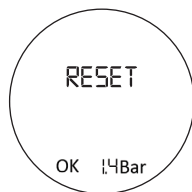
Please refer to "setting" section (P.15) for further instruction of adjusting the coffee temperature.

Cleaning



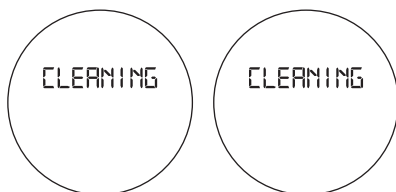
Please refer to "setting" section (P.16) for further instruction to start cleaning.

Default setting



Please refer to "setting" section (P.16) to reset the machine.

Cleaning reminder



the uses of coffee machine reach the volume of preset coffee reminder volume when "cleaning" shown at both of the two LED displays. Please refer to "setting" section (P.16) for further instruction of cleaning

Error code

Please dial the our specialist if any of the following error code shows on the LED display.

Error - LS



Steam boiler failed to fill water

Error - CB1



The left boiler failed to heat normally

Error - CB2



The right boiler failed to heat normally

Error - SB



The steam boiler failed to heat normally

Hot water warming



The right LED display will show "Hot water" and the button light will flash when the hot water valve is not closed properly.

Operating instructions

Please follow the steps below to brew coffee:

Please check the following items before each switching on.

- The main power switch is turned on.
- The water inlet switch is turned on.

The LED on the panel will light up, the boiler will automatically replenish the water, and the pump and heating components of the machine will start up when the power is turned on. The machine operate normally when "Preheating" disappear on the LED screen.

1. Cup warming plate

The coffee cup and glass water cup can only be placed when operating the machine. The coffee cup must be confirmed to be dry and before placed on the cup warming plate. Please don't put any other items on the cup warming plate.

2. Heating

The display will show the boiler temperature once the heating is completed. The machine is ready to brew coffee and release hot water and steam. To ensure the brewing head and coffee handle reach the same temperature, press the manual button to brew the brewing head and coffee handle for a few seconds, then press the manual button to stop.

3. Brewing coffee

Remove the coffee handle and clear all coffee residue before adding one or two cups of coffee powder to the coffee handle. Use a tamper to flatten the ground coffee and remove excess coffee powder from the handle. Lock the coffee handle on the brewing head and place the coffee cup properly under the coffee handle. Start brewing coffee by pressing the coffee brew button. When the desired amount of brewing is reached, press the coffee brewing button again to stop brewing.

4. Brewing other hot drinks

Switch on the steam

Put the left or right steam stick into the beverage and turn the steam switch knob counterclockwise to heat the beverage. After the beverage reaches the desired temperature, turn the vapor switch knob clockwise to stop the jet of steam.

making a milk form

Milk is a material that is prone to deterioration and changes its structure when exposed to heat. It must be kept below 5 degrees Celsius and consumed within the specified time once the package of milk is opened. Pour the milk into the high-narrow bottle to about half of its position. Put the steam wand stick into the bottle and slowly turn the steam switch knob counterclockwise to start the steam switch, and heat the milk for a few seconds.

When both the milk foam amount and the milk temperature meet the requirements, turn the steam switch knob clockwise to stop the spray of steam.

The steam wand should be moved to the drip tray and turned on to remove the milk inside the steam wand, and clean the surface with the dry cloth thoroughly after each use of the steam wand,

Hot water (only for KD-510)

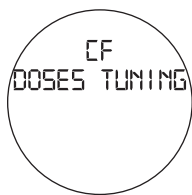
Place the hot water container under the hot water tube and turn the hot water switch knob anticlockwise to activate the hot water switch. When the desired amount is reached, turn the hot water switch knob clockwise to stop brewing hot water.

Setting

Adjusting the volume for 1/2 cup

Press both 1 cup and 2 cup buttons simultaneously

Press the 1 cup or 2 cup button to select the mode you want to adjust, then press the 1 cup or 2 cup button to store the volume or press the setting to discard the change.



*the whole wording would not be shown in the screen

Enter the volume adjustment mode



*the whole wording would not be shown in the screen

start counting the dosing volume

The following settings must press the Setting button first to enter the main menu[”], and select the relevant settings, please refer to the "Settings Main Menu section of the LED Guide", page 8:

Press the 1 cup button to move backwards, long press the 1 cup button to quickly move the value backwards; press the 2 cup button to move forward, long press the 2 cup button to move forward quickly; press the manual button to save the setting; press the setting to Discard your changes.

**Steam boiler pressure
(ST PRESSURE)**



Pressure adjustable range:
0.8 - 1.6 Bar

**Steam heating boiler
(ST HEATER)**



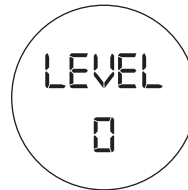
Switchable steam boiler. If the steam boiler is turned off, the actual steam boiler pressure will not be displayed on the LCD display

**Coffee boiler temperature
(CO TEMP)**



Temperature adjustable range:
88 - 96 °C

**Pre-infusion
(CO PREINFUSION)**

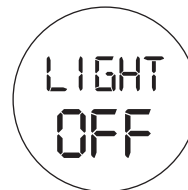


6 pre-infusion program from 0 to 5,
Level 0 = no pre-infusion

**Backlight
(BACK LIGHT)**

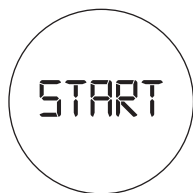


5 options of backlight:
Light 01 - Yellow light
Light 02 - Yellow + White light (brighter)
Light 03 - Yellow + White light (Dimmer)
Light 04 - White light (Dimmer)
Light 05 - White light (brighter)



Switch off the backlight:
Light OFF

Cleaning (CLEAN)



Press "Start" to start cleaning after entering the cleaning section



The whole cleaning process would last for 10 minutes. (Cancel the cleaning by pressing both setting button at two side simultaneously .)

Cleaning reminder



设定天数提醒用户清洁：

Day 5 - 5 days

Day 4 - 4 days

Day 3 - 3 days

Day 2 - 2 days

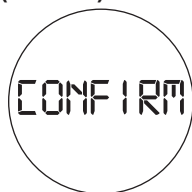
Day 1 - 1 days

Clean OFF - No cleaning reminder



Please clean the machine when "Cleaning" is shown at both side of LED display. (the cleaning reminder can be canceled by pressing both sides of setting buttons simultaneously .)

Reset (RESET)



Select "confirm" to reset the machine

Cleaning and maintenance

CLEANING DISPENSING UNIT

This operation must be made on all the groups at the end of each working day

1. Remove the filter holder from the coffee group.
2. Using a brush, clean the cover gasket.
3. Insert the rubber disk into the filter-holder with its filter.
4. Pour in a packet or dosing cupful of detergent powder.
5. Attach the filter-holder to the dispenser unit.
6. Press the stop button and press it again after 10 seconds. Repeat this step 10 times.
7. Remove the filter holder; Press the stop button and execute the rinse cycle with water for about 30".

Cleaning program

Place the cleaning pad in the handle with appropriate amount of cleaning powder. Put the handle on the coffee machine and enter the cleaning mode. Press the manual button release water until the water clears after the cleaning process is complete.

FILTER-HOLDERS

1. Put a liter of cold water in a suitable container and add detergent.
2. Remove the filters from the filter-holders.
3. Soak the filters and the filterholders in this solution for about 2 hours.
4. Remove any residue with a sponge and rinse well with cold water.
5. Rinse with water
6. Place the filters back in the filter holder, making sure that the anchoring spring (A) of the filter is in its slot.

STEAM AND HOT WATER DISPENSING PIPES

(Hot rod applies only to KD-510)

Using a clean sponge, wash with hot water removing any organic residue present. Rinse carefully.

To clean the inside of the steam nozzle, follow these steps:

Turn the nozzle towards the cup tray and carefully activate steam dispensing at least once.

Cleaning the standard cup holder and drip tray

Remove the grid from the drip tray and rinse thoroughly with pure water.

Drainage tray

After the end of the day, put one liter of hot water in the drain pan and wash away the remaining residue.

BODYWORK

Use a soft cloth and cleaning products WITHOUT ammonia or abrasives, removing any organic residue present in the work area.

NOTE. Do not spray liquids into the panel slots.

ATTENTION

When the machine has not been used for more than 8 hours, and in any case once a day, the internal components must be washed before use, in accordance to the following instructions:

Supply Groups

Insert the filter carriers into the groups (without coffee) and dispense from each group for one minute.

Hot water (Only for KD-510)

Dispense hot water repeatedly (using the relative command) until at least 2 liters of water

Steam

Allow the steam to flow for approximately one minute, using the appropriate commands.

Rules for the worker operating the machine

WARNING: BEFORE YOU START OPERATING THE MACHINE, WASH THE INTERNAL COMPONENTS FOLLOWING THE INSTRUCTIONS INDICATED BELOW.

THESE STEPS MUST BE REPEATED AT LEAST ONCE A DAY AND WHEN THE MACHINE HAS NOT BEEN OPERATED FOR MORE THAN 8 HOURS.

Groups

- Hook up the filter holders to the groups (without coffee).
- Let each group dispense water for about a minute.

Hot Water (Only for KD-510)

- Continuously dispense hot water (pressing the appropriate button) until at least 5 liters of water have been used for a machine with 2 groups, 8 liters for a machine with 3 groups and 10 liters for a machine with 4 groups (see the “Cleaning and Maintenance” Chapter in the User’s Manual).

Steam

- Dispense steam from the nozzles for about a minute, using the appropriate buttons.

ON THE JOB

Steam dispensing

- Before heating the beverage (water, milk, etc.), open the steam nozzle for at least 3 seconds and let the steam escape so that the condensation is eliminated.

Coffee dispensing

- Before heating the beverage (water, milk, etc.), open the steam nozzle for at least 3 seconds and let the steam escape so that the condensation is eliminated.

Hot water dispensing (Only for KD-510)

- If the machine has not been used for more than an hour, before using the hot water, dispense about 200 cc and discard the liquid.

Cleaning the coffee circuits

- Please read the specific section in the user’s manual to learn how to clean these circuits.

Caution

GENERAL

Never work the coffee machine with wet hands or naked feet.

Danger of Burns

Do not place the hands or other parts of the body close to the coffee distribution points, or near to the steam and hot water nozzles.

Ensure that the machine is not handled by children or persons who have not been instructed in its correct use.

Cup-warming plate

Place only coffee cups, cups and glasses to be used in conjunction with the coffee machine on the cup-warming plate.

Ensure that the coffee cups are completely drained before placing them on the cup-warming plate.

No other objects shall be placed on the cup-warming plate.

MACHINE CLOSE-DOWN

When the machine remains unattended for a long period of time (at night, during the weekly closing day or during holidays) the following operations shall be performed:

- Remove the plug or switch off the main switch.
- Close the water tap.

Non-compliance with these safety measures exonerates the manufacturer from all liability for malfunctions or damage to persons or items.

Product Specifications

Product name: Espresso Machine

Product model: KD-510 ,KD-510DS

Voltage and Power:

KD-510 120V~ 60Hz 2950W

KD-510DS 120V~ 60Hz 3950W

Attention: Product are subject to change without prior notice.

Attention: Users can refer online manual on WPM website

(www.wpm.hk/en/news_detail.php?id=22)

Situations below are not accepted in the maintenance terms:

1. Formation of scale in thermoblock due to not using distilled water or inadequate and irregular cleaning.
2. Blocking in steam wand due to inadequate and irregular cleaning.

G.M.P. Industrial Co Ltd

Address: 7/F, Meyer Industrial Building, 2 Chong Yip Street,
Kwun Tong, Kowloon, Hong Kong

Tel. No.: +852 23438211

Fax: +852-23431647

E-mail: welhome@gewcorp.com

Website :www.wpm.hk

WPM
WELHOME PRO

Ver. Cod.: KD-510Series-UL-IB-V001 -1807201104