



WF12F9****

Washing Machine

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.



SAMSUNG

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safety information

Congratulations on your new Samsung washer. This manual contains important information on the installation, use and care of your appliance. Please take time to read this manual to take full advantage of your washer's many benefits and features.

WHAT YOU NEED TO KNOW ABOUT SAFETY INSTRUCTIONS












Please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance and retain it at a safe place near the appliance for your future reference. Use this appliance only for its intended purpose as described in this instruction manual.

Warnings and Important Safety Instructions in this manual do not cover all possible conditions and situations that may occur. It is your responsibility to use common sense, caution, and care when installing, maintaining, and operating your washer.

Because these following operating instructions cover various models, the characteristics of your washer may differ slightly from those described in this manual and not all warning signs may be applicable. If you have any questions or concerns, contact your nearest service center or find help and information online at www.samsung.com.

IMPORTANT SAFETY SYMBOLS AND PRECAUTIONS


What the icons and signs in this user manual mean:

 WARNING	Hazards or unsafe practices that may result in severe personal injury, death and/or property damage.
 CAUTION	Hazards or unsafe practices that may result in personal injury and/or property damage.
 CAUTION	To reduce the risk of fire, explosion, electric shock, or personal injury when using your washer, follow these basic safety precautions:
	Do NOT attempt.
	Do NOT disassemble.
	Do NOT touch.
	Follow directions explicitly.
	Unplug the power plug from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Call the service centre for help.
	Note

These warning signs are here to prevent injury to you and others.

Please follow them explicitly.

After reading this section, keep it in a safe place for future reference.

-  Read all instructions before using the appliance.

As with any equipment using electricity and moving parts, potential hazards exist. To safely operate this appliance, become familiar with its operation and exercise care when using it.

1. This appliance is not to be used 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.
2. **For use in Europe:** This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
3. Children should be supervised to ensure that they do not play with the appliance.
4. 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.
5. The new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.
6. For appliances with ventilation openings in the base, that a carpet must not obstruct the openings.
7. **For use in Europe:** Children of less than 3 years should be kept away unless continuously supervised.

safety information

8.CAUTION: In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.



SEVERE WARNING SIGNS FOR INSTALLATION



The installation of this appliance must be performed by a qualified technician or service company.

- Failure to do so may result in electric shock, fire, an explosion, problems with the product, or injury.

The appliance is heavy, take care upon lifting it

Plug the power cord into an AC 220-240V / 50Hz wall socket or higher and use the socket for this appliance only. In addition, do not use an extension cord.

- Sharing a wall socket with other appliances using a power strip or extending the power cord may result in electric shock or fire.
- Ensure that the power voltage, frequency and current are the same as those of the product specifications. Failure to do so may result in electric shock or fire. Plug the power plug into the wall socket firmly.

Remove all foreign substances such as dust or water from the power plug terminals and contact points using a dry cloth on a regular basis.

- Unplug the power plug and clean it with a dry cloth.
- Failure to do so may result in electric shock or fire.

Plug the power plug into the wall socket in the right direction so that the cord runs towards the floor.

- If you plug the power plug into the socket in the opposite direction, the electric wires within the cable may be damaged and this may result in electric shock or fire.

Keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.

- If a child places a bag over its head, it may result in suffocation.

When the appliance or power plug or power cord is damaged, contact your nearest service centre.



This appliance must be properly grounded.

Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.

- This may result in electric shock, fire, an explosion, or problems with the product.
- Never plug the power cord into a socket that is not grounded correctly and make sure that it is in accordance with local and national codes.



Do not install this appliance near a heater, inflammable material.

Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops).

Do not install this appliance in a location of low temperature

- Frost may cause tubes to burst.

Do not install this appliance in a location where gas may leak.

- This may result in electric shock or fire.

Do not use an electric transformer.

- It may result in electric shock or fire.

Do not use a damaged power plug, damaged power cord or loose wall socket.

- This may result in electric shock or fire.

Do not pull or excessively bend the power cord.

Do not twist or tie the power cord.

Do not hook the power cord over a metal object, place a heavy object on the power cord, insert the power cord between objects, or push the power cord into the space behind the appliance.

- This may result in electric shock or fire.

Do not pull the power cord, when unplugging the power plug.

- Unplug the power plug by holding the plug.
- Failure to do so may result in electric shock or fire.

Do not lay the power cord and tubes where you may fall over them.

This appliance should be positioned so that the power plug, the water supply taps, and the drain pipes are accessible.



CAUTION

CAUTION SIGNS FOR INSTALLATION



This appliance should be positioned in such a way that it is accessible to the power plug.

- Failure to do so may result in electric shock or fire due to electric leakage.

Install your appliance on a level and hard floor that can support its weight.

- Failure to do so may result in abnormal vibrations, moves, noise, or problems with the product.



WARNING

SEVERE WARNING SIGNS FOR USING



If the appliance is flooded, Turn off the water & power supply immediately and contact your nearest service centre.

- Do not Touch the power plug with wet hands.
- Failure to do so may cause electric shock.

If the appliance generates a strange noise, a burning smell or smoke, unplug the power plug immediately and contact your nearest service centre.

- Failure to do so may result in electric shock or fire.

In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power plug. Do not touch the appliance or power cord.


- Do not use a ventilating fan.
- A spark may result in an explosion or fire.

Do not let children play in or on the washer. In addition, when disposing of the appliance, remove the washer door lever.

- If trapped inside, the child may become trapped and suffocate to death.

Make sure to remove the packaging (sponge, styrofoam) attached to the bottom of the washer before using it.

safety information

-  Do not wash items contaminated with gasoline, kerosene, benzene, paint thinner, alcohol or other flammable or explosive substances.

- This may result in electric shock, fire or an explosion.

Do not open the washer door by force while it is operating (high-temperature washing/drying/spinning).

- Water flowing out of the washer may result in burns or cause the floor to be slippery.

This may result in injury.

- Opening the door by force may result in damage to the product or injury.

Do not insert your hand under the washer.

- This may result in injury.

Do not touch the power plug with wet hands.

- This may result in electric shock.

Do not turn the appliance off by unplugging the power plug while an operation is in progress.

- Plugging the power plug into the wall socket again may cause a spark and result in electric shock or fire.

Do not let children or infirm persons use this washer unsupervised. Do not let children climb in the appliance.

- Failure to do so may result in electric shock, burns or injury.

Do not insert your hand or a metal object under the washer while it is operating.

- This may result in injury.

Do not unplug the appliance by pulling at the power cord, always grip plug firmly and pull straight out from the outlet.


- Damage to the cord may cause short-circuit, fire and/or electric shock.

-
-  Do not attempt to repair, disassemble, or modify the appliance yourself.

- Do not use any fuse (such as copper, steel wire, etc.) other than the standard fuse.

- When repairing or reinstalling the appliance is required, contact your nearest service centre.

- Failure to do so may result in electric shock, fire, problems with the product, or injury.

-
-  If the water supply hose comes loose from the Water tap and floods the appliance, unplug the power plug.

- Failure to do so may result in electric shock or fire.

Unplug the power plug when the appliance is not being used for long periods of time or during a thunder/lightning storm.

- Failure to do so may result in electric shock or fire.

If any foreign substance enters into the appliance, unplug the power plug and contact your nearest Samsung Customer Service.

- This may result in electric shock or fire.

Do not let children (or pets) play in or on your washing machine. The washing machine door does not open easily from the inside and children may be seriously injured if trapped inside.



CAUTION SIGNS FOR USING



When the washer is contaminated by a foreign substance such as detergent, dirt, food waste, etc., unplug the power plug and clean the washer using a damp and soft cloth.

- Failure to do so may result in discolouration, deformation, damage or rust.

The front glass may be broken by a strong impact. Take care when using the washer.

- When the glass is broken, it may result in injury.

After a water supply failure or when reconnecting the water supply hose, open the Water Tap slowly.

Open the Water Tap slowly after a long period of non-use.

- The air pressure in the water supply hose or the water pipe may result in damage to a part or in water leakage.

If a drain error occurs during an operation, check if there is a draining problem.

- If the washer is used when it is flooded because of a draining problem, it may result in electric shock or fire due to electric leakage.

Insert the laundry into the washer completely so that laundry does not get caught in the door.

- If laundry gets caught in the door, it may result in damage to the laundry or the washer, or result in water leakage.

Ensure that the Water Tap is turned off when the washer is not being used.

- Ensure that the screw on the water supply hose connector is properly tightened.
- Failure to do so may result in property damage or injury.

Take care that the rubber seal and the front door glass are not contaminated by a foreign substance (e.g. waste, thread, hair, etc.)

- If a foreign substance is caught in the door or the door is not completely closed, it may cause a water leakage.

Open the Water Tap and check if the water supply hose connector is firmly tightened and that there is no water leaking before using the product.

- If the screws or the water supply hose connector are loose, it may result in water leakage.

The product you have purchased is designed for domestic use only.

The use for business purposes qualifies as product misuse. In this case, the product will not be covered by the standard warranty provided by Samsung and no responsibility can be attributed to Samsung for malfunctions or damages resulting from such misuse.



Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.

- This may result in electric shock, fire, problems with the product, or injury.

Do not spray volatile material such as insecticide onto the surface of the appliance.

- As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.

Do not place an object that generates an electromagnetic field near the washer.

- This may result in injury due to a malfunction.

Since the water drained during a high-temperature wash or drying cycle is hot, do not touch the water.

- This may result in burns or injury.

safety information

Do not wash, spin or dry water-proof seats, mats or clothing (*) unless your appliance has a special program for washing these items.

- Do not wash thick or hard mats even if the washing machine mark is on the care label. This may result in injury or damage to the washing machine, walls, floor, or clothing due to abnormal vibrations.
- Do not wash throw rugs or doormats with rubber backing. The rubber backing may come off and stick to inside the drum, and this may result in malfunction such as a drainage error.
- * Woollen Bedding, rain covers, fishing vests, ski pants, sleeping bags, diaper covers, sweat suits, and bicycle, motor cycle, car covers, etc.

Do not operate the washer when the detergent box is removed.

- This may result in electric shock or injury due to water leakage.

Do not touch the inside of the tub during or just after drying as it is hot.

- This may result in burns.

Do not insert your hand into the detergent box after opening it.

- This may result in injury as your hand may be caught by the detergent input device. Do not place any objects (such as shoes, food waste, animals) other than laundry into the washer.
- This may result in damage to the washer, or injury and death in the case of pets due to the abnormal vibrations.

Do not press the buttons using sharp objects such as pins, knives, fingernails, etc.

- This may result in electric shock or injury.

Do not wash laundry contaminated by oils, creams or lotions usually found in skincare shops or massage clinics.

- This may result in the rubber seal becoming deformed and water leakage.

Do not leave metal objects such as a safety pin or hair pin, or bleach in the tub for long periods of time.

- This may cause the tub to rust.
- If rust starts appearing on the surface of the tub, apply a cleansing agent (neutral) to the surface and use a sponge to clean it. Never use a metal brush.

Do not use dry cleaning detergent directly and do not wash, rinse, or spin laundry contaminated by dry cleaning detergent.

- This may result in spontaneous combustion or ignition due to the heat of the oxidation of the oil.

Do not use hot water from water cooling/heating devices.

- This may result in problems with the washer.

Do not use natural hand-washing soap for the washer.

- If it hardens and accumulates inside the washer, it may result in problems with the product, discolouration, rust or bad odors.

Do not wash large laundry items such as Bedding in the washing net.

- Place socks and brassieres into the washing net and wash them with the other laundry.
- Failure to do so may result in injury due to abnormal vibrations.

Do not use hardened detergent.

- If it accumulates inside the washer, it may result in water leakage.

For washing machines with ventilation openings in the base, ensure that the opening is not obstructed by carpet or any other obstacles.

Make sure that the pockets of all clothing to be washed are empty.

- Hard, sharp objects, such as coins, safety pins, nails, screws, or stones can cause extensive damage to the appliance.

Do not wash clothing with large buckles, buttons, or other heavy metal.

Do not leave the laundry which you have added detergent or applied stain remover or pretreatment onto the laundry without washing it for a period of time.

- This may result in discoloration.

Sort the laundry by color on the basis of its colorfastness and select the recommended cycle, water temperature and additional functions.

- This may result in discoloration or fabric damage.

Take care that children's fingers are not caught in the door when you close it.

- Failure to do so may result in injury.



SEVERE WARNING SIGNS FOR CLEANING



Do not clean the appliance by spraying water directly onto it.

Do not use the a strong acidic cleaning agent.

Do not use benzene, thinner or alcohol to clean the appliance.

- This may result in discolouration, deformation, damage, electric shock or fire.

Before cleaning or performing maintenance, unplug the appliance from the wall socket.

- Failure to do so may result in electric shock or fire.

safety information

INSTRUCTION ABOUT THE WEEE MARK



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

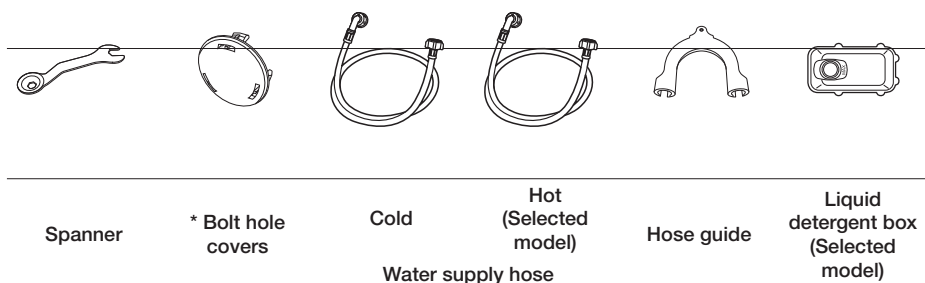
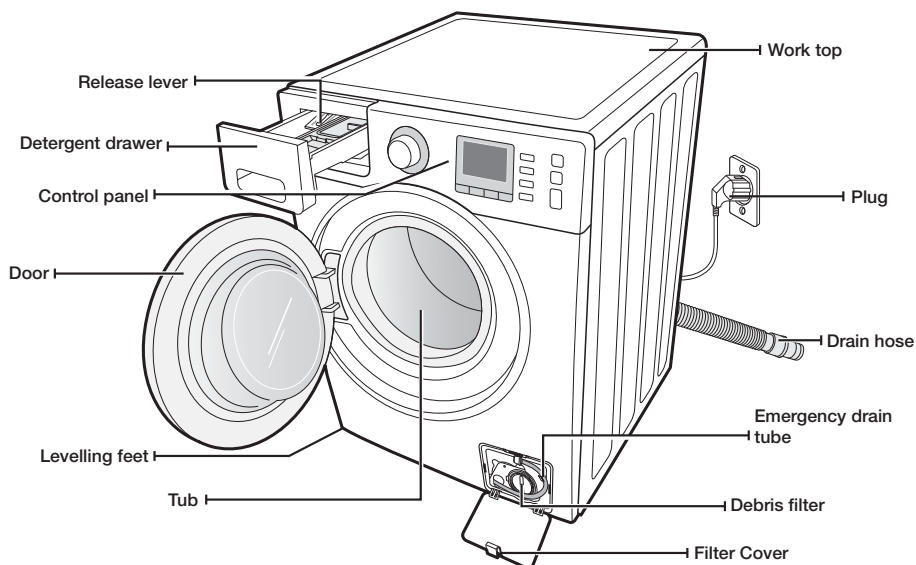
For information on Samsung's environmental commitments and product specific regulatory obligations e.g. REACH visit: samsung.com/uk/aboutsamsung/samsungelectronics/corporatecitizenship/data_corner.html


setting up your washing machine

Be sure to have your installer follow these instructions closely so that your new washing machine works properly and so that you're not at risk of injury when doing laundry.

CHECKING THE PARTS

Carefully unpack your washing machine, and make sure you've received all of the parts shown below. If your washing machine was damaged during shipping, or if you do not have all of the parts, contact Samsung Customer Service or your Samsung dealer.



 *** Bolt hole covers** : The number of bolt hole covers depends on the model (3~6 covers).

setting up your washing machine

MEETING INSTALLATION REQUIREMENTS

Electrical supply and grounding



Never use an extension cord.

Use only the power cord that comes with your washing machine.

When preparing for installation, ensure that your power supply offers:

- AC 220-240 V / 50 Hz fuse or circuit breaker
- Individual branch circuit serving only your washing machine

Your washing machine must be grounded. If your washing machine malfunctions or breaks down, grounding will reduce the risk of electric shock by providing a path of least resistance for the electric current.

Your washing machine comes with a power cord having a three-prong grounding plug for use in a properly installed and grounded outlet.



Never connect the ground wire to plastic plumbing lines, gas lines, or hot water pipes.

Improperly connecting the equipment-grounding conductor can result in electric shock.

Check with a qualified electrician or serviceman if you are unsure if the washing machine is properly grounded. Do not modify the plug provided with the washing machine. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.

Water Supply

Your washing machine will fill properly when your water pressure is 50 kPa ~ 800 kPa. Water pressure less than 50 kPa may cause water valve failure, not allowing the water valve to shut off completely. Or, it may take the washing machine longer to fill than what the controls allow, resulting in your washing machine turning off. (A fill-time limit, designed to prevent overflows/flooding if an internal hose becomes loose, is built into the controls.)

The water taps must be within 120cm of the back of your washing machine for the provided inlet hoses provided to reach your washing machine.



Most plumbing supply stores sell inlet hoses of various lengths up to 305 cm long.

You can reduce the risk of leaks and water damage by:

- Making water taps easily accessible.
- Turning off taps when the washing machine is not in use.
- Periodically checking for leaks at water inlet hose fittings.



Before using your washing machine for the first time, check all connections at the water valve and taps for leaks.

Drain

Samsung recommends a standpipe height of 65cm. The drain hose must be routed through the drain hose clip to the standpipe. The standpipe must be large enough to accept the outside diameter of the drain hose. The drain hose is attached at the factory.

Flooring

For best performance, your washing machine must be installed on a solidly constructed floor. Wood floors may need to be reinforced to minimize vibration and/or unbalanced loads. Carpeting and soft tile surfaces are contributing factors to vibrations and the tendency for your washing machine to move slightly during the spin cycle.

Never install your washing machine on a platform or poorly supported structure.

Surrounding temperature

Do not install your washing machine in areas where water may freeze, since your washing machine always retains some water in its water valve, pump, and hose areas. Frozen water in the lines can cause damage to belts, the pump, and other components.

Alcove or closet installation

To operate safely and properly, your new washing machine requires minimum clearances of:

Sides – 25 mm

Rear – 50 mm

Top – 25 mm

Front – 465 mm

If both the washing machine and a dryer are installed together, the front of the alcove or closet must have at least 465 mm unobstructed air opening. Your washing machine alone does not require a specific air opening.

INSTALLING YOUR WASHING MACHINE

STEP 1

Selecting a location



Before you install the washing machine, make sure the location:

- Has a hard, level surface without carpeting or flooring that may obstruct ventilation
- Is away from direct sunlight
- Has adequate ventilation
- Will not be freezing (below 0 °C)
- Is away from heat sources such as oil or gas
- Has enough space so that the washing machine doesn't stand on its power cord

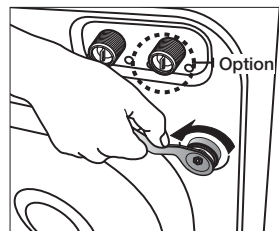
setting up your washing machine

STEP 2

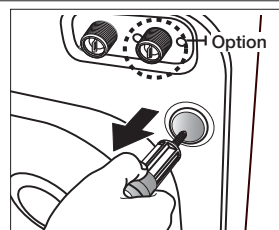
Removing the shipping bolts

Before installing the washing machine, you must remove all shipping bolts from the back of the unit.

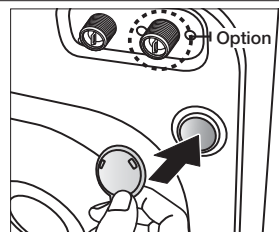
1. Loosen all the bolts with the supplied wrench.



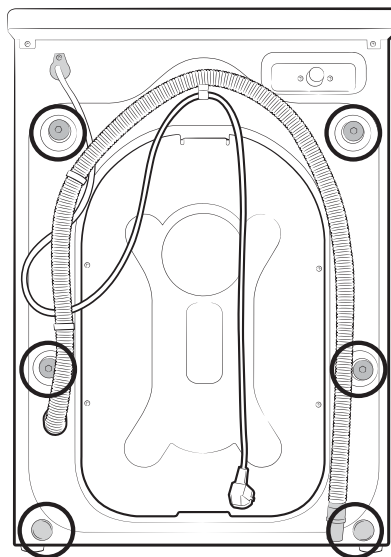
2. Hold the bolt with the spanner and pull it through the wide section of the hole. Repeat for each bolt.




3. Fill the holes with the supplied plastic covers.



4. Close all plastic bolt caps on the rear of the washing machine.




5. Store the shipping bolts away safely in case you have to move the washing machine in the future.

 Packaging materials can be dangerous to children; keep all packaging material (plastic bags, polystyrene, etc.) well out of the reach of children.

setting up your washing machine

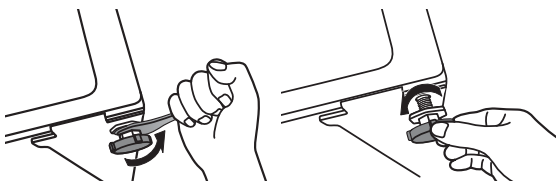
STEP 3

Adjusting the Levelling feet

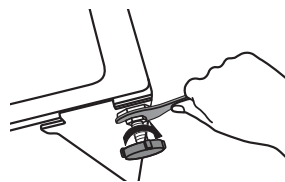
-  When installing your washing machine, ensure that the power plug, the water supply and the drain are easily accessible.

1. Slide the washing machine into position.

2. Level your washing machine by turning the levelling feet in and out as necessary by hand.



3. When your washing machine is level, tighten the nuts using the wrench supplied with your washing machine.




STEP 4

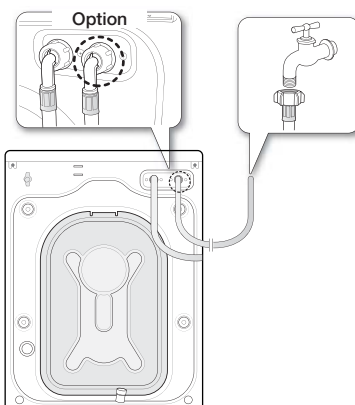
Connecting the water and drain

Connecting the water supply hose

1. Take the L-shaped arm fitting for the cold water supply hose and connect it to the cold water supply intake on the back of the machine. Tighten by hand.

-  The water supply hose must be connected to the washing machine at one end and to the water tap at the other. Do not stretch the water supply hose. If the hose is too short, replace the hose with a longer, high pressure hose.

2. Connect the other end of the cold water supply hose to your sink's cold water tap and tighten it by hand. If necessary, you can reposition the water supply hose at the washing machine end by loosening the fitting, rotating the hose, and retightening the fitting.

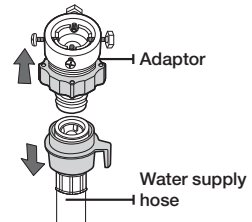


For selected models with an additional hot water intake:

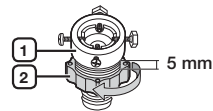
1. Take the red L-shaped arm fitting for the hot water supply hose and connect it to the hot water supply intake on the back of the machine. Tighten by hand.
2. Connect the other end of the hot water supply hose to your sink's hot water tap and tighten it by hand.
3. Use a Y-piece if you only want to use cold water.

Connecting the water supply hose

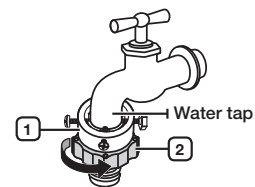
1. Remove the adaptor from the water supply hose.



2. First, using a '+' type screwdriver, loosen the four screws on the adaptor. Next, take the adaptor and turn part (2) following the arrow until there is a 5 mm gap.



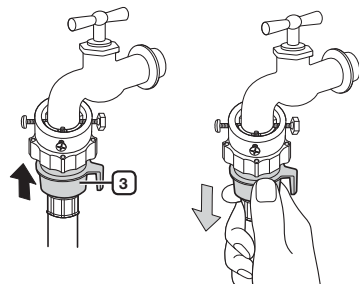
3. Connect the adaptor to the water tap by tightening the screws firmly while lifting the adaptor upwards. Turn part (2) following the arrow and connect (1) and (2).



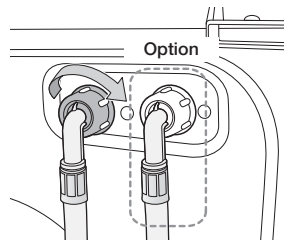
4. Connect the water supply hose to the adaptor. When you release part (3), the hose automatically connects to the adaptor making a 'click' sound.



After you have connected the water supply hose to the adaptor, ensure that it is connected correctly by pulling the water supply hose downwards.



5. Connect the other end of the water supply hose to the inlet water valve at the rear of the washing machine. Screw the hose clockwise all the way in.

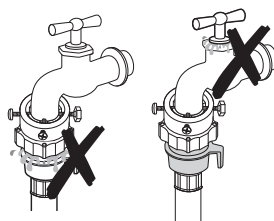


setting up your washing machine

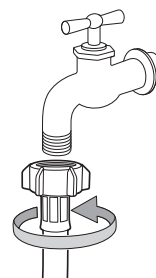
6. Turn on the water supply and ensure that no water leaks from the water valve, tap or adaptor. If there is a water leak, repeat the previous steps.



WARNING Do not use your washing machine if there is a water leak. This may cause electric shock or injury.



- If the water tap has a screw type tap, connect the water supply hose to the tap as shown.

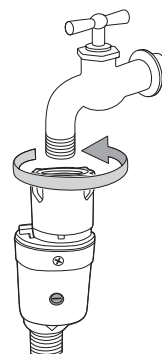


- Use the most conventional type of tap for the water supply. In case the tap is square or too big, remove the spacing ring before inserting the tap into the adaptor.

Connecting the Aqua Hose (Selected models)

The Aqua Hose was invented for perfect leakage protection. It is attached to the water supply hose and automatically cuts off the water flow if the hose is damaged. It also displays a warning indicator.

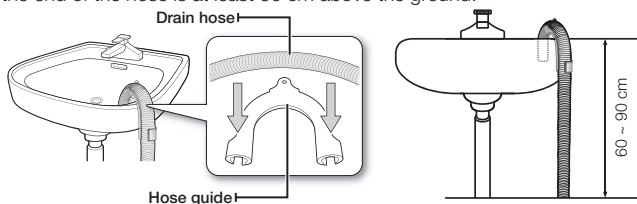
- Connect the water supply hose to the tap as shown.



Connecting the drain hose

The end of the drain hose can be positioned in three ways:

1. **Over the edge of a wash basin:** The drain hose must be placed at a height of between 60 and 90 cm. To keep the drain hose spout bent, use the supplied plastic hose guide. Secure the guide to the wall with a hook or to the tap with a piece of string to prevent the drain hose from moving.
2. **In a sink drain pipe branch:** The drain pipe branch must be above the sink siphon so that the end of the hose is at least 60 cm above the ground.

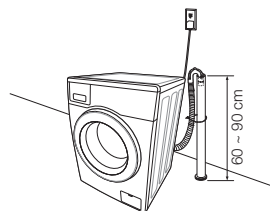


3. **In a drain pipe:** We recommend using a 65 cm high vertical pipe; it must be no shorter than 60 cm and no longer than 90 cm.



The standpipe drain requires;

- minimum diameter 5 cm.
- minimum carry-away capacity 60 liter per minute.



STEP 5

Powering your washing machine

Plug the power cord into a wall sockets, an AC 220-240V / 50Hz approved electrical outlet protected by a fuse or circuit breaker. (For more information on electrical and grounding requirements, see page 15.)



Test run

Make sure that you install your washing machine correctly by running the **Rinse+Spin** cycle after the installation is complete.

STEP 6

Calibration mode


Samsung washing machine detects the laundry weight automatically. For more accurate weight detection, please run Calibration Mode after the installation. Calibration Mode is done by following the steps below.

1. Remove laundry or any contents in the machine and turn off the machine.
2. Press the **Temp** button and **Delay End** button simultaneously, and press the **Power** button in addition. Then the machine turns on.
3. "**CLB**" will appear on the display.
4. Press the **Start/Pause** button to activate "**Calibration Mode**".
5. The drum rotates clockwise and counterclockwise approximately for 3 minutes.
6. When "**Calibration Mode**" is finished, "**END/Cycle is complete**" appears on the display, and the machine automatically turns off. The washing machine is now ready for use.


washing a load of laundry

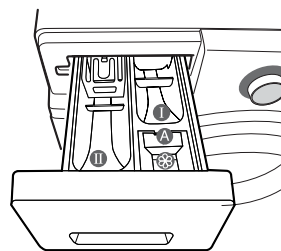
With your new Samsung washing machine, the hardest part of doing laundry will be deciding which load to wash first.

WASHING FOR THE FIRST TIME

 Before washing laundry for the first time, you must run a complete empty cycle (i.e. no laundry).

1. Press the **Power** button.
2. Add a little detergent to the detergent compartment ① in the detergent drawer.
3. Turn on the water supply to the washing machine.
4. Press the **Start/Pause** button.

 This will remove any water that might be left over in the machine from the manufacturer's test run.



Compartment ①: Detergent for prewash, or starch.

Compartment ②: Detergent for the main wash, water softener, pre-soaking agent, bleach and stain removal product.

 To use liquid detergent, use the liquid detergent box (refer to page 32 of the manual for the corresponding model). Do not add powdered detergent into the liquid detergent box.

Compartment ③: Additives, e.g. fabric softener or former (fill no higher than lower edge (MAX) of "A").

BASIC INSTRUCTIONS

1. Load your laundry into the washing machine.



Do not overload the washing machine. To determine the load capacity for each type of laundry, refer to the chart on page 31.



- Make sure that laundry is not caught in the door, as this may cause a water leak.
- Washing detergent may remain in the front rubber part of the washer after a wash cycle. Remove any remaining detergent, as they may cause a water leak.
- Do not touch the door glass while your washing machine is running or it may be hot.
- Do not open the detergent drawer or the debris filter while your washing machine is running or you might be exposed to hot water or steam.
- Do not wash water-proofed items in normal cycle except outdoor care program.

2. Close the door until it latches.

3. Turn the power on.



Last Memory function

- When you turn your washing machine on, the last used setting is reflected on the control panel. However, if the last used setting was Eco Drum Clean, Rinse+Spin or the Spin cycle, this function is not applied.
- If you turn the Cycle Selector even slightly after turning the washing machine on, this function does not applied and the control panel is reset.

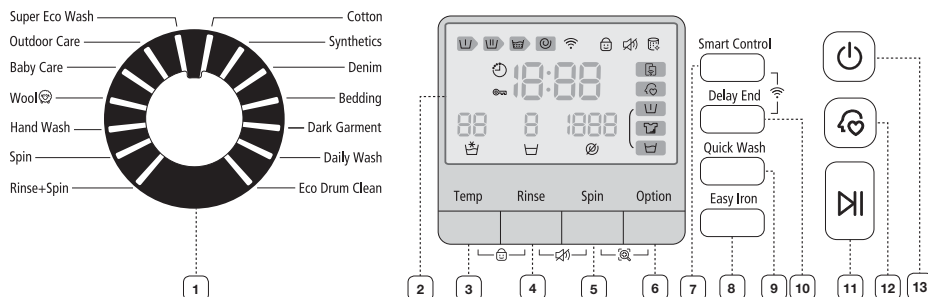
4. Add detergent and additives to the dispenser drawer.

5. Select the appropriate cycle and options for the load.

The Wash Indicator light will illuminate and the estimated cycle time will appear in the display.

6. Press the **Start/Pause** button.

USING THE CONTROL PANEL



1 CYCLE SELECTOR

Select the tumble pattern and spin speed for the cycle.



For detailed information, refer to "Washing clothes using the cycle selector". (see page 29)

Cotton - For average or lightly soiled cottons, bed linen, table linen, underwear, towels, shirts, etc.

Synthetics - For averagely or lightly soiled blouses, shirts, etc., made of polyester (diolen, trevira), polyamide (perlon, nylon) or other similar blends.

Denim - A higher water level in the main wash and extra rinse ensure that no washing powder remains that may mark your clothing.

Bedding - For bed spread, bed sheet, Bedding cover etc.



Wash under 2.5 kg and only 1 kind of Bedding to achieve the best result.

Dark Garment - Additional rinses and reduced spinning ensure that your favourite dark clothes are washed gently and rinsed thoroughly.

Daily Wash - Use for everyday items such as underwear and shirts.

Eco Drum Clean - Use for drum cleaning. It cleanses dirt and bacteria of drum. Regular use (after every 40 washes) is recommended. No detergent or bleach needed.

Super Eco Wash - Low temperature Eco Bubble ensures that you achieve perfect wash results while allowing effective energy saving.

Outdoor Care - Use for outdoor wear such as mountain clothes, skiwear, and sports wear. Fabrics include functional technology finishes and fibers such as spandex, stretch, and micro-fiber.

Baby Care - High temperature wash and extra rinses ensure that no washing powder remains to mark your thin clothes.

Wool - Only for machine-washable wool. A load should be less than 2.0 kg.









- The wool course washes the laundry using gentle cradling actions. During the wash, the gentle cradling and soaking actions are continued to protect the wool fibers from shrinkage / distortion and for a super gentle clean. This stop operation is not a problem.
- Neutral detergent is recommended for wool course, for improved washing results and for improved care of the wool fibers.


Hand Wash - A very light wash cycle as gentle as a hand wash.

Spin - Performs an additional spin cycle to remove more water.

Rinse+Spin - Use for a load that needs rinsing only or to add rinse-added fabric softener to a load.

washing a load of laundry

2	DIGITAL GRAPHIC DISPLAY	Displays the remaining wash cycle time, all cycle information, and error messages.	
3	TEMP SELECTION BUTTON	Press this button repeatedly to cycle through the available water temperature options: (Cold Water  , 20 °C, 30 °C, 40 °C , 60 °C and 95 °C).	
4	RINSE SELECTION BUTTON	Press this button to add additional rinse cycles. The maximum number of rinse cycles is five.	
5	SPIN SELECTION BUTTON	Press the button repeatedly to cycle through the available speeds for the spin cycle.	
		WF12F9E6P4*	 ,  , 400, 800, 1000, 1200, 1400 rpm
		<p>“No spin ” - The laundry remains in the drum and no spin cycle is performed after the final drain.</p> <p>“Rinse Hold ” - The laundry remains soaking in the final rinse water. Before the laundry can be unloaded, either a Drain or Spin cycle must be performed.</p>	
6	OPTION SELECTION BUTTON	Press this button repeatedly to cycle through the options: Soak → Intensive → Prewash → Soak + Intensive → Soak + Prewash → Intensive + Prewash → Soak + Intensive + Prewash → off “Prewash  ”: Press this button to select Prewash. Prewash is only available with: Cotton, Synthetics, Denim, Bedding, Dark Garment, Daily Wash, Super Eco Wash, Baby Care. “Soak  ”: Use this option to effectively remove stains from your laundry by soaking your laundry.	
		<ul style="list-style-type: none">• The Soak function is performed 13 minutes into the wash cycle.• The Soak function continues for 30 minutes with six cycles, where one cycle is a soak cycle that spins for 1 minute and stands still for 4 minutes.• The Soak function is only available for the following wash programs: Cotton, Synthetics, Denim, Bedding, Daily Wash, Super Eco Wash, Baby Care. <p>“Intensive ”: Press this button when the laundry is heavily soiled and needs to be washed intensively. The cycle time is increased for each cycle.</p>	
7	SMART CONTROL	Press this button to activate/deactivate the Smart Control function. When the Smart Control function is activated, you can control your washer using your mobile device. (For detailed information, refer to the “Setting the Smart Control” section on page 33.)	
8	EASY IRON SELECTION BUTTON	Press this button to prepare your laundry so that it can be easily ironed by reducing the wrinkles during the spin cycle. <ul style="list-style-type: none">• Easy Iron is only available for the following wash programs: Cotton, Synthetics, Denim, Bedding, Dark Garment, Daily Wash, Super Eco Wash, Baby Care.• When Easy Iron is selected, you can set the spin cycle speed up to 800 rpm. (If you select Easy Iron with a spin cycle speed set to higher than 800 rpm, the spinning speed is automatically changed to 800 rpm.)	

9 QUICK WASH SELECTION BUTTON	<p>For lightly soiled garments and less than 2 kg laundry that you require quickly. It takes about minimum 15 minute, but can vary from the indicated values depending on water pressure, water hardness, water inlet temperature, room temperature, type and amount of washing and degree of soiling, utilized detergent unbalanced load, fluctuation in the electricity supply and extra options selected.</p> <ul style="list-style-type: none"> Press this button repeatedly to choose cycle time: 15 min → 20 min → 30 min → 40 min → 50 min → 1hr → Off <p> Powdered/Liquid detergent should be under 20g(for 2kg load) or detergent may remain on the clothes.</p>
10 DELAY END SELECTION BUTTON	<p>Press this button repeatedly to cycle through the available Delay End options (from 3 hours to 19 hours in one hour increments). The hour displayed indicates the time when the wash cycle will be finished.</p>
11 START/PAUSE SELECTION BUTTON	<p>Press to pause and restart a cycle.</p>
12 MY CYCLE SELECTION BUTTON	<p>Choose your favorite cycle including temperature, spin, soil level, option, etc.</p>
13 POWER BUTTON	<p>Press it once to turn your washing machine on, press it again to turn your washing machine off. If the washing machine is left on for more than 10 minutes without any buttons being touched, the power automatically turns off.</p>


washing a load of laundry

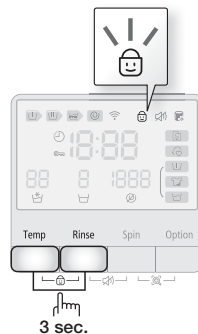
Child Lock

The Child Lock function allows you to lock the buttons so that the wash cycle you've chosen can't be changed.

Activating/Deactivating

If you want to activate or deactivate the Child Lock function, press the **Temp** and **Rinse** buttons at the same time for 3 seconds. "Child Lock" will be lit when this feature is activated.


 When the Child Lock function is activated, only the **Power** button works. The Child Lock function remains on even after the power is turned on and off or after the disconnecting and reconnecting the power cord.

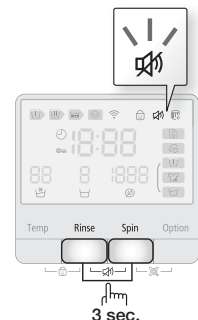


Sound Off

The Sound Off function can be selected during all courses. When this function is selected, sound is turned off for all courses. Even if the power is turned on and off repeatedly, the setting is retained.


Activating/Deactivating

If you want to activate or deactivate the Sound Off function, press the **Rinse** and **Spin** buttons at the same time for 3 seconds. The "Sound Off"  will be lit when this feature is activated.



Smart Check

This function enables you to check the status of the washing machine using a smartphone.

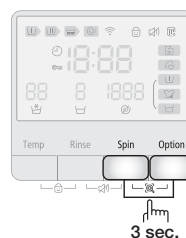
-  The Smart Check function has been optimized for:
Galaxy S, S2, S3, S4, Note1, Note2
iPhone3GS, 4, 4S, 5



Downloading the Samsung Smart Washer app

Download the Samsung Smart Washer app to your mobile phone from the Android market (Play store) or Apple App store and install it. You can easily find it by searching for **"Samsung Smart Washer"**.

Using the Smart Check function

1. Hold down the **Spin** and **Option** buttons at the same time for 3 seconds when an error occurs to run the Smart Check function. Alternatively, the Smart Check function can be run if no button is pressed after the washing machine is turned on.
2. The LED segments on the display panel rotate for 2 or 3 seconds and the Smart Check code is displayed on the washing machine's display panel.
3. Run the **Samsung Smart Washer** app on your smart phone and tap the **Smart Check** button.



-  'Smart Check' may be changed to 'Smart Care' according to the language selection.
4. Focus your smart phone's camera on the Smart Check code displayed on the washing machine's display panel.
 - 
 - If light from a light bulb, fluorescent bulb or lamp is reflected on the display panel of the washing machine, the smart phone may not be able to easily recognize the Smart Check code.
 - If you hold the smart phone at a too wide angle relative to the front of the display panel, it may not be able to recognize the error code. For best results, hold the smart phone so that the front of the display panel and the smart phone are parallel or nearly parallel.
 5. If it focuses correctly, the Smart Check code is automatically recognized, and the detailed information of the status of your washing machine, the error and the countermeasures are displayed on your smart phone.
 6. If the smart phone fails to recognize the Smart Check code more than twice, please enter the Smart Check code displayed on your washing machine's display panel into the Samsung Smart Washer app manually.

washing a load of laundry

Delay End

You can set the washing machine to finish your wash automatically at a later time, choosing a delay of between 3 to 19 hours (in 1 hour increments). The hour displayed indicates the time at which the wash will be finished.

1. Manually or automatically set your washing machine according to the type of laundry you are washing.
2. Press the **Delay End** button repeatedly until the delay time is set.
3. Press the **Start/Pause** button. The "Delay End ⌚" indicator will be lit, and the clock will begin counting down until it reaches the set time.
4. To cancel a Delay End function, press the **Power** button and then turn the washing machine on again.

My Cycle

Allows you to activate your custom wash (temperature, spin, soil level, etc.) with one button convenience.

By pushing the **My Cycle** button, press the My Cycle button to load and use the saved My Cycle options. The "My Cycle" light will indicate activation. Also, the chosen course and option lights will flicker.

You can set all options as follows in the My Cycle mode.

1. Turn the water supply on.
2. Press the **Power** button.
3. Select cycle using the **Cycle Selector**.
4. After cycle selection, set each option.



See the "Cycle chart" on page 63 for available option settings with each cycle.

5. You can then store the selected cycle and options by pressing and holding the **My Cycle** button for longer than 3 seconds in My Cycle mode. The cycle and options you select will be displayed the next time you choose the My Cycle function.





You can change the My Cycle settings by repeating the same process above. The last used setting will be displayed the next time you choose the My Cycle function.



If you press My Cycle and release it within 3 seconds, the previously saved course and options appear. If you press and hold My Cycle for 3 second or longer, the currently set course and options are saved and the LED blinks for 3 seconds.


Washing clothes using the cycle selector

Your new washing machine makes washing clothes easy, using Samsung's "Fuzzy Control" automatic control system. When you select a wash program, the machine will set the correct temperature, washing time, and washing speed.

1. Turn on your sink's water tap.
 2. Press the **Power** button.
 3. Open the door.
 4. Load the articles one at a time loosely into the drum, without overfilling it.
 5. Close the door.
 6. Add detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.
-  Prewash is only available when selecting the Cotton, Synthetics, Denim, Bedding, Dark Garment, Daily Wash, Super Eco Wash, Baby Care cycles. It is only necessary if your clothing is heavily soiled.
7. Use the **Cycle Selector** to select the appropriate cycle according to the type of material: Cotton, Synthetics, Denim, Bedding, Dark Garment, Daily Wash, Super Eco Wash, Outdoor Care, Baby Care, Wool, Hand Wash. The relevant indicators will illuminate on the control panel.
 8. At this time, you can control the wash temperature, the amount of rinses, the spinning speed, and the delay time by pressing the appropriate option button.
 9. Press the **Start/Pause** button and the wash will begin. The process indicator will light up and the remaining time for the cycle will appear in the display.
-  Both the total cycle time and the number of rinse cycles in the Cotton cycle may vary depending on the amount of laundry.

Pause Option

Before the initial water supply is finished it is possible to add/remove laundry items.

1. press the **Start/Pause** button to unlock the door.
-  The door cannot be opened when the water is too HOT or the water level is too HIGH.
2. After closing the door, press the **Start/Pause** button to restart the wash.

When the cycle is finished:

After the total cycle has finished, the power will turn off automatically.

1. Open the door.
2. Remove laundry.

washing a load of laundry

Washing clothes manually

You can wash clothes manually without using the Cycle Selector.

1. Turn the water supply on.
2. Press the **Power** button on the washing machine.
3. Open the door.
4. Load the articles loosely into the drum one at a time, without overfilling it.
5. Close the door.
6. Add detergent and, if necessary, softener or prewash detergent, into the appropriate compartments.
7. Press the **Temp** button to select the temperature. (Cold water, 20 °C, 30 °C, 40 °C, 60 °C, 95 °C)
8. Press the **Rinse** button to select the required number of rinse cycles.
The maximum number of rinse cycles is five.
The wash duration is increased accordingly.
9. Press the **Spin** button to select the spin speed. (⊗ : No spin)
10. Press the **Delay End** button repeatedly to cycle through the available Delay End options (from 3 hour to 19 hours in one hour increments). The hour displayed indicates the time at which the wash will be finished.
11. Press the **Start/Pause** button and the machine will begin the cycle.

LAUNDRY GUIDELINES

Follow these simple guidelines for the cleanest laundry and the most efficient wash.



Always check the Care label on clothing before washing.

Sort and wash your laundry according to the following criteria:

- Care Label: Sort laundry into cottons, mixed fibres, synthetics, silks, wools and rayons.
- Colour: Divide whites and colours. Wash new colour items separately.
- Size: Placing items of different sizes in the same load will improve the wash action.
- Sensitivity: Wash delicate items separately, using the Delicate wash cycle for pure, new woollen items, curtains and silk articles. Check the labels on the items you are washing or refer to the fabric care chart in the appendix.

Emptying pockets

Before each wash, empty all the pockets of your laundry. Small, irregularly shaped hard objects, such as coins, knives, pins, and paperclips could damage your washing machine. Do not wash clothing with large buckles, buttons, or other heavy metal objects.

Metal on clothing may damage your clothing as well as the tub. Turn clothing with buttons and embroidered clothes inside out before washing them. If zips of pants and jackets are open while washing, the spin basket may be damaged. Zips should be closed and fixed with a string before washing.

Clothing with long strings may become entangled with other clothes damaging them. Be sure to fix the strings before starting the wash.


Prewashing cotton

Your new washing machine, combined with modern detergents, will give perfect washing results, thus saving energy, time, water and detergent. However, if your cotton is particularly dirty, prewash with a protein-based detergent.

Determining the load capacity

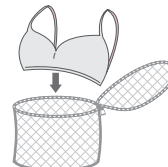
Do not overload the washing machine or your laundry may not wash properly. Use the chart below to determine the load capacity for the type of laundry you are washing.


Fabric Type	Load Capacity
Model	WF12F9E6P4*
Cotton	12.0 kg
Synthetics	6.0 kg
Denim	3.0 kg
Bedding	2.5 kg
Outdoor Care	2.0 kg
Wool	2.0 kg

-  • When the laundry is unbalanced (“UE” lights up on the display), redistribute the load. If the laundry is unbalanced, the spin efficiency may be degraded.
- When washing Bedding or Bedding cover, the wash time may be lengthened or the spin efficiency may be degraded.
- For Bedding or Bedding cover, the recommended load capacity is 2.5 kg or less.

 **Make sure to insert brassieres (water washable) into a laundry net (to be purchased additionally).**

- The metal parts of the brassieres may break through the material and damage the laundry. Therefore make sure to place them inside a fine laundry net.
- Small, light clothing such as socks, gloves, stockings and handkerchiefs may become caught around the door. Place them inside a fine laundry net.




-  Do not wash the laundry net by itself without other laundry. This may cause abnormal vibrations that could move the washing machine and cause an accident resulting in injury.

DETERGENT AND ADDITIVES INFORMATION

Which detergent to use

The type of detergent you should use is based on the type of fabric (cotton, synthetic, delicate items, wool), colour, wash temperature, and degree of soiling. Always use “low suds” laundry detergent, which is designed for automatic washing machines.


Follow the detergent manufacturer’s recommendations based on the weight of the laundry, the degree of soiling, and the hardness of the water in your area. If you do not know how hard your water is, enquire at your local water authority.

-  Do not use detergent that has hardened or solidified as the detergent may remain in the rinse cycle. It may cause your washing machine to not rinse properly or result in the overflow becoming blocked.


washing a load of laundry

Detergent drawer

Your washing machine has separate compartments for dispensing detergent and fabric softener. Add all laundry additives to the correct compartment before starting your washing machine.

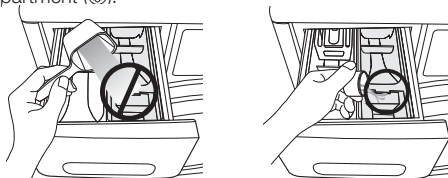
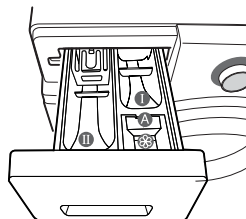
 Do not open the detergent drawer while your washing machine is running or you might be exposed to hot water or steam.

1. Pull out the detergent drawer on the left side of the control panel.
2. Add the recommended amount of laundry detergent directly into the detergent compartment ① before starting your washing machine.


 To use liquid detergent, use the liquid detergent box (refer to "Liquid Detergent" for the corresponding model).

- Do not add powdered detergent into the liquid detergent box.
3. Add the recommended amount of fabric softener into the softener compartment ② if required. DO NOT exceed the MAX FILL (A) line.


 **CAUTION** Do NOT add any powder/liquid **detergent** to the softener compartment (②).




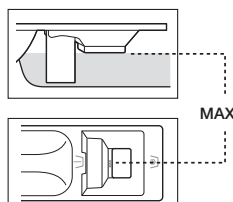
4. When using the Prewash option, add the recommended amount of laundry detergent into the prewash compartment ①.

 When washing large items do NOT use the following detergent types.

- Tablet and capsule type detergents
- Detergents using a ball and net



 Concentrated or thick fabric softener and conditioner must be diluted with a little water before being poured into the dispenser (prevents the overflow from becoming blocked).

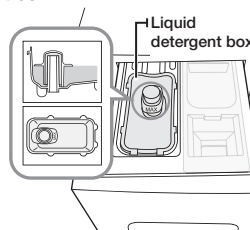
 Be careful that the fabric softener does not overflow, when you close the detergent drawer after adding fabric softener into the rinse detergent compartment.



Liquid Detergent (Selected models)


To use liquid detergent, place the liquid detergent box into the main wash section of the detergent drawer and pour liquid detergent into the liquid detergent box.

-  Do not fill above the MAX line.
-  When using powdered detergent, remove the liquid detergent box from the detergent drawer. Powdered detergent will not dispense with liquid detergent box.
- After a wash, some liquid may remain in the detergent drawer.



SETTING THE SMART CONTROL

Connect a wired/wireless router and the washer through a wireless connection, connect to www.samsungsmartappliance.com and register the washer to the Smart Control service.

 This product does not contain a wireless router.

Configuring the wired/wireless router

- This product supports DHCP (Dynamic Host Configuration Protocol). Therefore, if a user wants to use an existing wired/wireless router, the router's DHCP server function must be enabled.
- Set the channel for the connection with the wired/wireless router to a channel that is not being used.
- This washer only supports OPEN, WPA/TKIP and WPA2/AES modes. If the wireless router is set to a mode other than these three modes, the washer may not connect to it. We recommend that you use WPA2/AES for 802.11n.
- The quality of the wireless network may be affected by the surrounding environment.
- If your Internet service provider has registered and fixed the MAC address (unique identification number of a device) of the user's PC or modem, you may not be able to connect the washer to the Internet. Please ask your Internet service provider about the procedures to connect a device (e.g. washer) other than a computer to the Internet. If your Internet service provider requires an ID and password to connect to the Internet, you may not be able to connect the washer to the Internet. In this case, you have to enter the ID and password to connect to the Internet.

You may not be able to connect to the Internet due to a firewall. In this case, ask your Internet service provider for assistance. If you cannot connect the washer to the Internet even after contacting your Internet service provider, please contact a Samsung Electronics dealer or service center.

Check before installation

- For the procedures to install a normal wired/wireless router, refer to the user manual of the corresponding wired/wireless router.
- Samsung washers only support Wi-Fi 2.4Ghz.
- The Samsung washer supports the wireless communication standard IEEE802.11 b/g/n (2.4 GHz).
- A certified wireless router has the Wi-Fi CERTIFIED logo on its packaging or user manual.



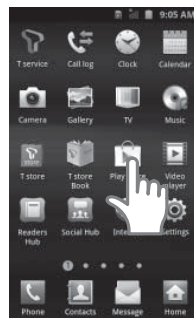
smart control

SETTING THE NETWORK (ANDROID)



The application screen shown in this manual may differ from the screen on your mobile device.

1. Touch and bring up the applications menu on your phone. Then find and open the "Play Store" icon.




2. Once the "Play Store" has been open, do a search.

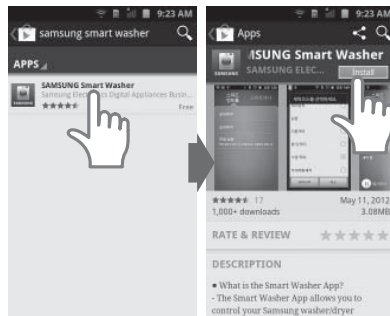


3. Once the search box appears type in "Samsung Smart Washer".

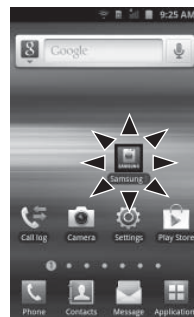


4. Once the search is complete the App "Samsung Smart Washer" will be displayed. You need to download this App to your phone.

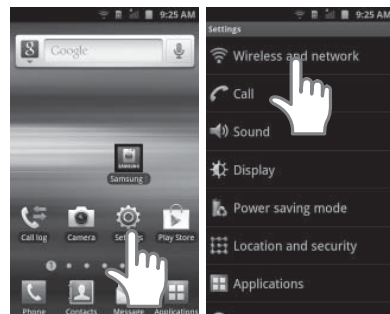
 Make sure the app changes from "Free" to "Installed"



5. Once the phone app has been downloaded to your phone, you are now ready to set up the washer Wi-Fi control.

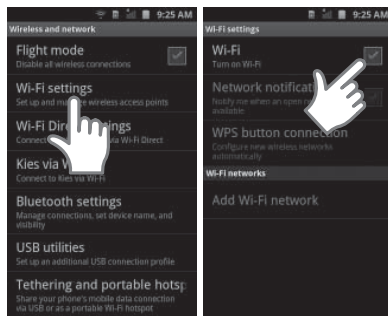


6. Press the "Settings" icon. Once the settings menu appears press the wireless and network section.

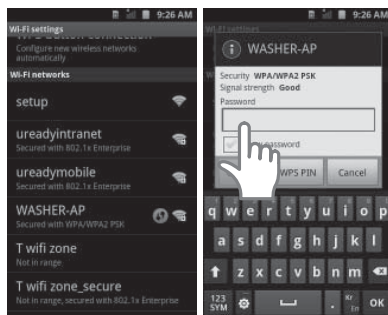


smart control

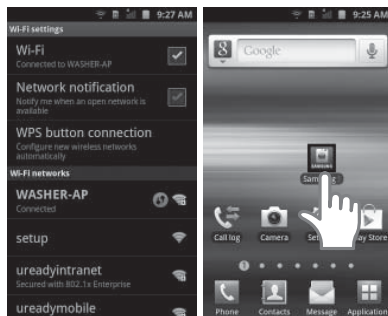
- After selecting the wireless and network select Wi-Fi setting. Then turn on the Wi-Fi.



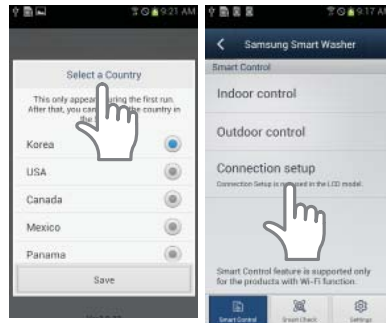
- Once the list of available networks appears, select the network to be used and enter the password if necessary.



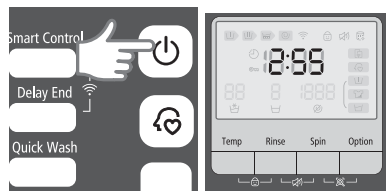
- Once you are connected to the selected network go back to the applications screen on your mobile phone. Once you are in the phones application screen touch the Samsung icon "Samsung Smart Washer" that was downloaded at the beginning of this process.



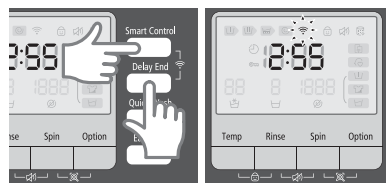
10. After opening the Samsung app, select "Select a Country" and then "Connection setup".



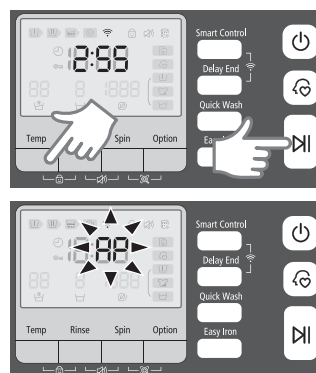
11. You need to first press the **Power** button to activate the your machine. You can activate the machine to any wash cycle.



12. Simultaneously hold down the **Smart Control** + **Delay End** buttons for 5 seconds. The 'Wi-Fi' indicator blinks for approximately 60 ~ 90 seconds. After the indicator stops blinking, proceed to the next step.



13. After you activate the machine, press the **Temp** + **Start/Pause** buttons simultaneously for 5 seconds. Then the "AP" menu appears on the LED screen.





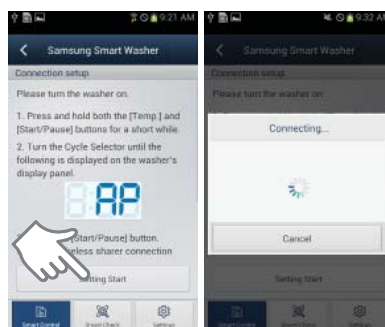
smart control

14. After the AP menu appears on the LED screen, press the **Start/Pause** button. Once the **Start/Pause** button is pressed the "AP" displayed on the LED screen should start to blink.
- If the you press the **Start/Pause** and the "AP" doesn't blink try again after a moment.




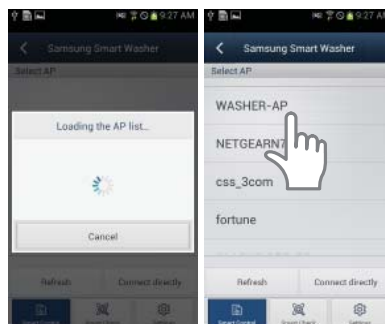
15. Once the mobile app is open select the "Setting Start" key.

-  The Wi-Fi indicator will blink on & off on the phone several times.
-  If the "FAP" code appears on the display panel, press the **Start/Pause** button and restart from Step 14.

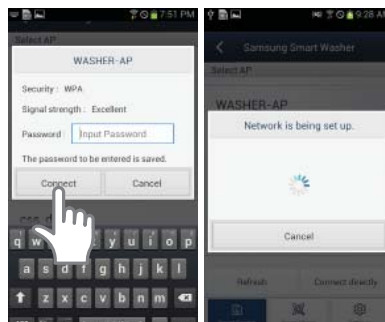


16. Once the unit starts connecting the phone will load the AP list. When the AP list is loaded you need to select the network.

-  Please make sure the app and smart phone are connected to the same network/wireless AP.

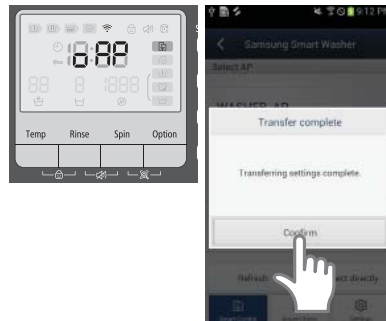


17. After selecting the network you need to enter your password. Once you enter your password select "Connect". The unit start setting up the network. This process delivers the connection information of the "AP" that is connected to the mobile phone to the product.



18. The 'oAP' code appears on the display panel of the washing machine and the "Transfer complete" message appears on the mobile app. The phone is now connected to the machine through the network.


 If the "FAP" code appears on the display panel, press the **Start/Pause** button and restart from Step 14.

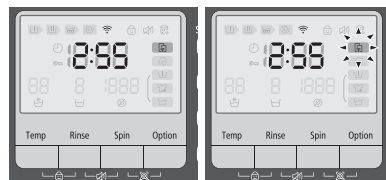


19. After the phone is connected to the machine, press the **Temp + Start/Pause** buttons simultaneously for 5 seconds. Then the original wash cycle will be displayed on the LED screen.



20. After the wash cycle has been displayed wait approximately 1 minute. You will then see the Smart Control icon start to blink.

 When done, go to page 46.



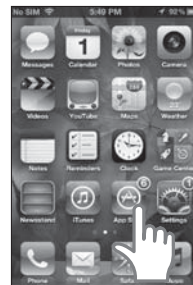
smart control

SETTING THE NETWORK (IOS)

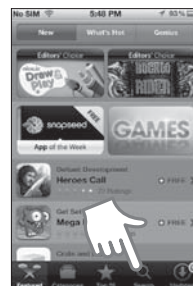


The application screen shown in this manual may differ from the screen on your mobile device.

1. Find and open the "App Store" icon.




2. Once the "App Store" has been open, do a search.

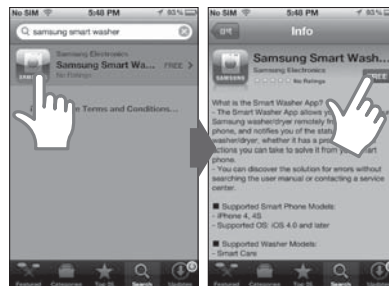


3. Once the search box appears type in "Samsung Smart Washer".



4. Once the search is complete the App "Samsung Smart Washer" will be displayed. You need to download this App to your phone.

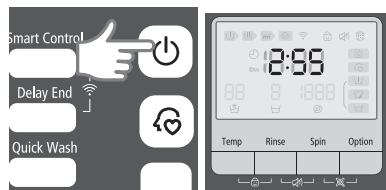
 Make sure the app changes from "Free" to "Installed"



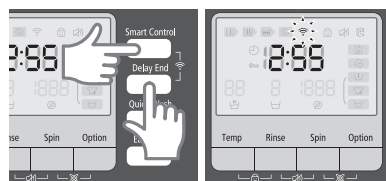
5. Once the phone app has been downloaded to your phone, you are now ready to set up the washer Wi-Fi control.



6. You need to first press the **Power** button to activate the your machine. You can activate the machine to any wash cycle.



7. Simultaneously hold down the **Smart Control** + **Delay End** buttons for 5 seconds. The 'Wi-Fi' indicator blinks for approximately 60 ~ 90 seconds. After the indicator stops blinking, proceed to the next step.



smart control

8. After you activate the machine, press the **Temp + Start/Pause** buttons simultaneously for 5 seconds. Then the "AP" menu appears on the LED screen.



9. After the AP menu appears on the LED screen, press the **Start/Pause** button. Once the **Start/Pause** button is pressed the "AP" displayed on the LED screen should start to blink. If you press the **Start/Pause** and the "AP" doesn't blink try again after a moment.



10. Press the "Settings" icon. Once the settings menu appears press the Wi-Fi icon.



11. You can see "SMARTWASHER" in the Wi-Fi list. Select the SMARTWASHER and input the password (WASHER2012). You have to input as Capital. After typing the password, select the join button.




12. Once you are connected to the selected network go back to the applications screen on your mobile phone. Once you are in the phones application screen touch the Samsung icon “Samsung Smart Washer” that was downloaded at the beginning of this process.



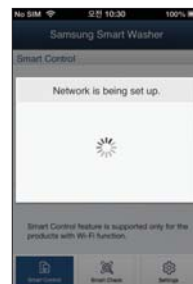
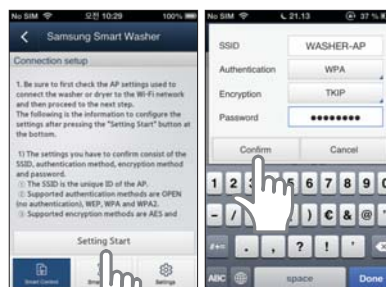
13. After opening the Samsung app, select “Connection setup”.



14. Tap the “Setting Start” and input your SSID, Authentication Type, Encryption Type, password of AP.
This process delivers the connection information of the “AP” that is connected to the mobile phone to the product.

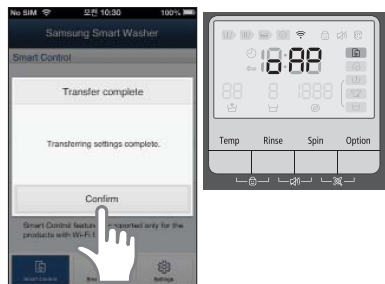
 Check the security option of the router and then set the wireless network configuration again as below.

- select the Security mode : WPA and Encryption:TKIP
- select the Security mode : WPA2 and Encryption:AES
- refer to wireless router manual for the security option of the wireless router.



smart control

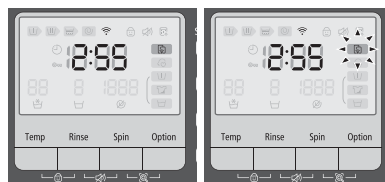
15. The 'oAP' code appears on the display panel of the washing machine and the "Transfer complete" message appears on the mobile app.




16. After the phone is connected to the machine, press the **Temp + Start/Pause** buttons simultaneously for 5 seconds. After 5 seconds the original wash cycle will be displayed on the LED screen.



17. After the wash cycle has been displayed wait approximately 1 minute. You will then see the Smart Control icon start to blink.



18. Connect to the AP, which is connected with the washing machine, on your mobile.
The phone is now connected to the washing machine through the network.

 When done, go to page 46.

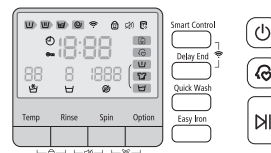


CONNECTING TO THE NETWORK USING THE WPS SETTINGS (FOR WPS-ENABLED ROUTERS ONLY)

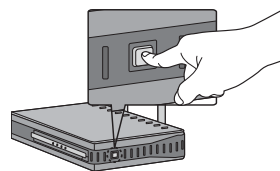


- Samsung washers use PBC as the WPS type. Check if the current wired/wireless router supports Wi-Fi Protected Setup™(WPS).
- Check if the wired/wireless share has a WPS button.

1. Turn the washing machine on.
2. Simultaneously hold down the **Smart Control** + **Delay End** buttons for 5 seconds to turn on Wi-Fi. When Wi-Fi is turned on, the 'Wi-Fi' indicator will light up.
3. Press and hold both the **Temp** + **Start/Pause** buttons for 5 seconds.
4. Turn the **Cycle Selector** until "UP" is displayed on the display panel and press the **Start/Pause** button.



5. Press and hold the **WPS** button of the wired/wireless router that will be connected with the washer for 120 seconds or less to run the WPS function of the wired/wireless router. If the WPS function runs, the wired/wireless router automatically fetches the necessary information from the washer and the washer is automatically connected to the Internet through the wired/wireless router.



6. When the WPS setting is complete, "OUP" will appear on the display.



If the connection is not established within 5 minutes, "FUP" is displayed on the display panel.

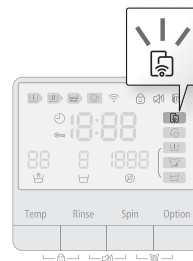


- How to use the WPS function of the wired/wireless router may differ depending on the manufacturer. Refer to the user manual of the corresponding wired/wireless router.
- Even after the WPS setup is complete, it may take some time until the actual connection is established to allocate an IP address through DHCP (up to 5 minutes).
- Note that if you use a wired/wireless router that is not WPS-certified, the washer may not be connected through Wi-Fi or a device that was connected to the wired/wireless router may be disconnected.
- Please note that for some wired/wireless routers, if you press and hold the WPS button for some time, the settings of the router may be reset.



CAUTION

7. Press the **Temp** + **Start/Pause** buttons simultaneously for 5 seconds. Then the original wash cycle will be displayed on the LED screen.
8. After the wash cycle has been displayed wait approximately 1 minute. You will then see the Smart Control icon start to blink.

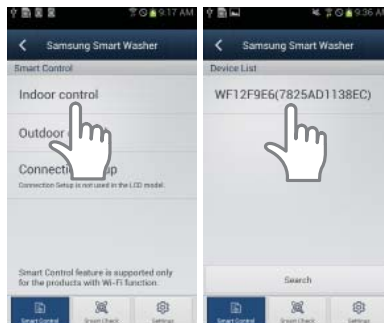


smart control

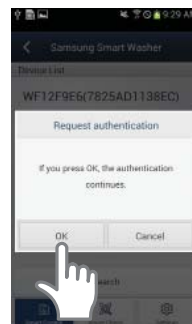
INDOOR CONTROL

Quick authentication (recommended)

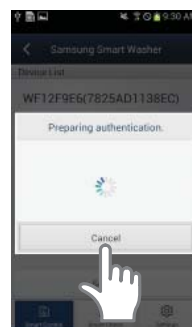
1. The "Authentication" only needs to be run with the initial setup. Touch the "Indoor control" tab to search for the washer's name. Once the washer's name is displayed touch tab.



2. After you touch the washer name tab you need to touch the "OK" tab to proceed with the certification.

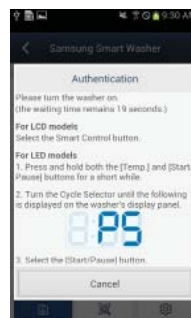


3. After you touch the confirm tab you will now start preparing the certification.

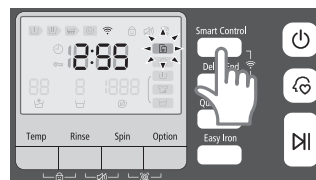


- Follow the instructions displayed on the phone to start the washer setup.

The waiting time for authentication is 20 seconds.
Perform step 5 below within 20 seconds.



- Press the **Smart Control** button.
If the lamp on the Smart Control button is on, press the **Smart Control** button once to turn it off. After waiting for 3 seconds, press the button again.



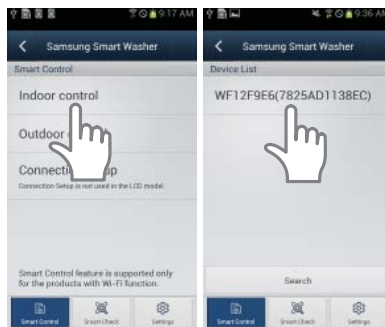
- The washer is now connected. Touch the Course button and you can now control the washer from your phone.



smart control

Authentication (if the quick authentication method fails)

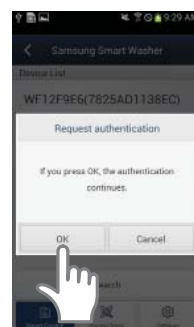
1. The "Authentication" only needs to be run with the initial setup. Touch the "Indoor control" tab to search for the washer's name. Once the washer's name is displayed touch tab.



2. Verify that the Wi-Fi icon is not blinking. Press the **Temp + Start/Pause** buttons simultaneously for 5 seconds. "AP" will now be displayed.



3. After you touch the washer name tab you need to touch the "OK" tab to proceed with the certification.



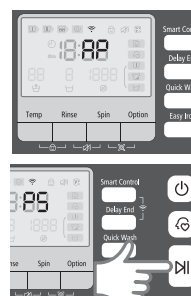
4. After you touch the confirm tab you will now start preparing the certification.



5. Follow the instructions displayed on the phone to start the washer setup.
The waiting time for authentication is 20 seconds.
Perform step 6 below within 20 seconds.





6. Once the "AP" is displayed you need to turn the knob counter clockwise until "PS" is displayed. After the "PS" is displayed press the **Start/Pause** button.

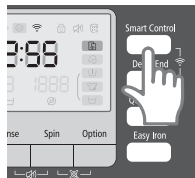
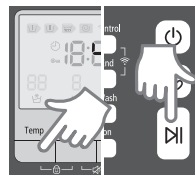


smart control


7. Once the **Start/Pause** button is pressed the "PS" will start to blink. Once it starts blinking the phone will automatically start to connect.



8. After the "PS" is displayed, press the **Temp + Start/Pause** buttons simultaneously for 5 seconds. Please wait until the Smart Control Enabled icon [] starts blinking. If the Smart Control enabled icon starts blinking, press Smart Control button to activate the Smart Control. If the Smart Control is enabled, the Smart Control enabled icon [] is turned on.




9. Press the washer name tab to connect to the washer. The washer is now connected. Touch the Course button and you can now control the washer from your phone.

-  Check if the 'Smart Control' indicator turns on. If it turns on, the Smart Control function is activated. If it turns off, press the Smart Control button to activate the Smart Control function.



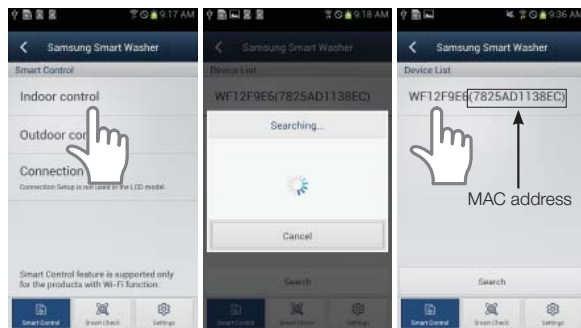
Using the mobile app

1. Make sure that the 'Wi-Fi' indicator is on. Then press the Smart Control button to activate the Smart Control function. When this function is activated, the 'Smart Control' indicator will light up. Now press the "Samsung Smart Washer" icon.

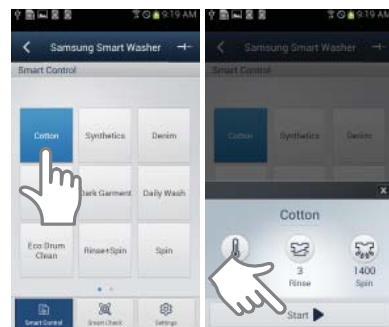
 If you try to activate the Smart Control function while the door is open, the function will be activated at first, but it will be automatically deactivated in a minute.



2. After you touch the "Samsung Smart Washer" icon the will search for the washer. Once the phone connects the washer, the washer's name, or "MAC" will appear. Now touch the washer name.

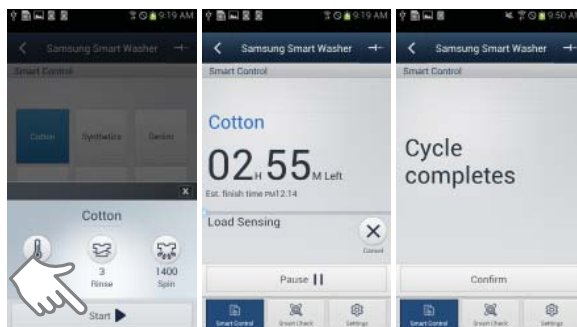


3. Once the connection is established, touch the "Course button". The unit should display the "Option Pop-up" screen. Once Choose Cycle screen is displayed touch the "Start" tab at the bottom.



smart control


4. Now touch the "Start" button and activate the wash cycle. You can monitor the wash cycle to check the status of the cycle. Once the cycle is finished the phone will display "Cycle completes".



For iPhones, you need to run the Outdoor control function in the app first to authenticate the Push Notification service after registering your washer to the Samsung Smart appliance (www.samsungsmartappliance.com) website.

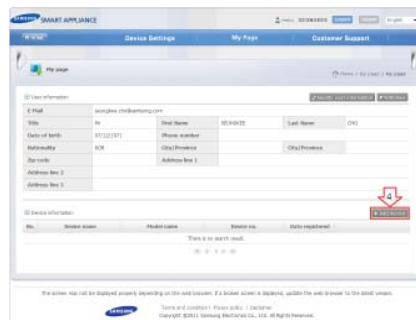
OUTDOOR CONTROL

Registering your washer

1. Access **Samsung Smart appliance** website.
(<http://www.samsungsmartappliance.com>)
2. Enter the User ID and Password to log in.
 If you don't have an account, press **"Create a Samsung account"** and fill in the form to become a member.
3. Select **"My page"** → **"My page"**.




4. Select **"Add device"**.



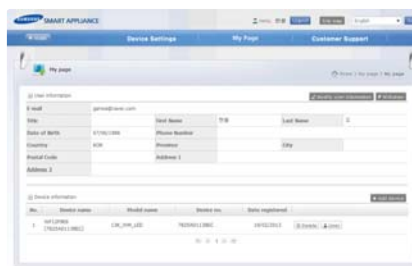
5. After entering the MAC written from following instruction. (Washing Machine)
 - 1) Press and hold both the **Temp.** and **Start/Pause** buttons for 5 seconds.
 - 2) Turn the Cycle Selector until "Ad" is displayed on the display panel and press the **Start/Pause** button.
 - 3) Find out 12 Hexadecimal Address, pressing **Start/Pause** buttons for 2 digit & text.



smart control

-  You can find it on your mobile app. (Refer to No.2 on page 51.)
6. Tap the 'Washers/Dryers' tab and enter the mac address. (Web)
 7. Click the **"Certify device"**. (Web)
 8. Turn the Cycle Selector until **"PS"** is displayed on the display panel and press the **Start/Pause** button. (Washing Machine)
 9. When certify device checking window comes on, click the **"Ok"**. (Web)
 - If the washer you are registering is already registered by other users, a window will come on asking whether you want to delete the usage authority of the existing users, or not.

10. After the registration of the washer is completed, you can check the registered washer on the device information list.



No.	Model name	Model name	Model no.	Date registered	
1	WM-L2000 (Washing Machine)	WM-L2000	WM-L2000	2015/05/03	[Delete] [Edit]

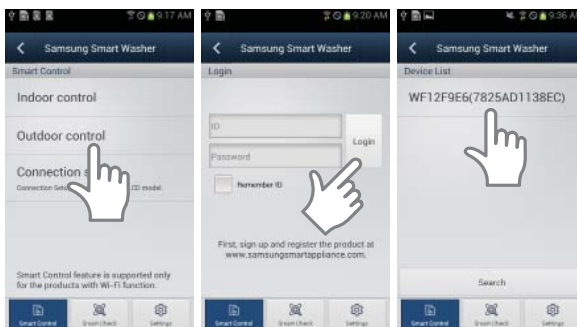
The screen may not be displayed properly depending on the web browser. If a broken screen is displayed, update the web browser to the latest version.

Terms and conditions - Samsung Global (English)
Copyright ©2015 Samsung Electronics Co., Ltd. All Rights Reserved.
SmartAppliance ver. 1.0.0

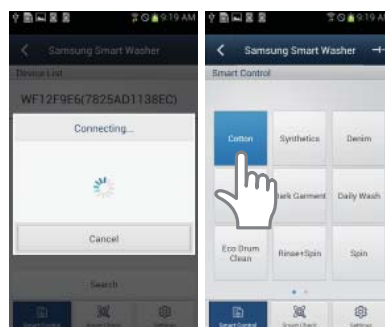
Using the mobile app


Register the appliance on the Samsung Smart Appliance website first to control the washing machine using the outdoor control function.

1. Press the Smart Control button.
2. Tap the "Outdoor control" tab.
3. Enter the ID and password registered to the website and tap the Login button.
4. After logging in, the model number of the registered washing machine appears in the appliance list.



5. Select the model you want to control to connect to the appliance.
6. Now you can use the Outdoor control function for the washing machine.



-  Hereby, Samsung Electronics, declares that this washing machine is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The official Declaration of conformity may be found at <http://www.samsung.com>, go to Support > Search Product Support and enter the model name. This equipment may be operated in all EU countries.

cleaning and maintaining your washing machine

Keeping your washing machine clean improves its performance, wards off unnecessary repairs, and lengthens its life.

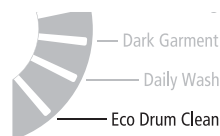
ECO DRUM CLEAN

This course is a self-cleaning course that removes mold that may occur inside the washing machine.

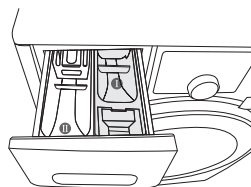
1. Press the **Power** button.
2. Turn the **Cycle Selector** to the Eco Drum Clean course.
 - You can only use the Delay End function.
 - The water temperature during the Eco Drum Clean is set to 70 °C.



You cannot change the temperature.



3. Place the appropriate amount of cleansing agent into the detergent compartment ⑩ and close the detergent drawer (when cleaning the drum using a cleansing agent).
 - Be sure to use the recommended cleansing agent for cleaning the drum.
 - There are powder-type and liquid-type drum cleansing agents. The liquid-type cleaning agent is only available with liquid detergent box (option).



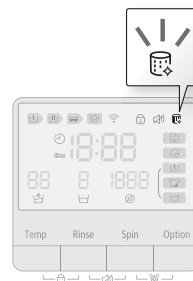
4. Press the **Start/Pause** button.
 - If you press the **Start/Pause** button, the Eco Drum Clean course begins.



- Using the Eco Drum Clean course, you can clean the drum without using a cleansing agent.
- Never use the Eco Drum Clean course when laundry is in the washing machine. This may result in damage to the texture or a problem with the washing machine.
- **In the Eco Drum Clean course, never use normal detergent.**
- **Use only 1/10 of the amount of the drum cleansing agent recommended by the cleansing agent manufacturer.**
- Since using a chlorine bleaching agent may discolour the product, be sure to use only oxygen bleaching agents.
- Powder-type cleansing agent: Use a [powder-type bleaching agent] or a [cleansing agent for drum cleaning only].
- Liquid-type cleansing agent: Use a [liquid-type oxygen bleaching agent] or a [cleansing agent for drum cleaning only].

The Eco Drum Clean Auto Alarm Function

- If the “Eco Drum Clean” indicator on the display and the lamp on the Cycle Selector are lit after a wash, it indicates that tub (drum) cleaning is required. In this case, remove the laundry from the washing machine, turn the power on, and clean the drum by performing the Eco Drum Clean course.
- If you do not perform the Eco Drum Clean course, the “Eco Drum Clean” indicator on the display and the lamp on the Cycle Selector are turned off. However, the “Eco Drum Clean” indicator on the display and the lamp on the Cycle Selector are turned on again after two washes are performed. However, this will not result in a problem with the washing machine.
- Although generally, the Eco Drum Clean Auto Alarm appears once a month or so, the frequency may differ depending on the number of times the washing machine is used.
- In case of the alarm, please also clean the debris filter (refer to “Cleaning the debris filter” section on page 58). Otherwise the performance of the bubble function may lower down.

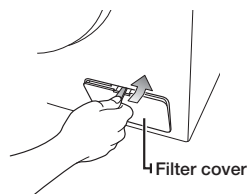


DRAINING THE WASHING MACHINE IN AN EMERGENCY

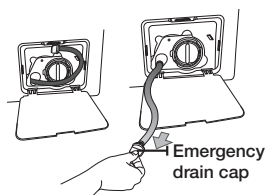


If there is a power outage, drain all remaining water before removing your laundry.

1. Unplug the washing machine from the power supply.
2. Open the filter cover by using a coin or key.



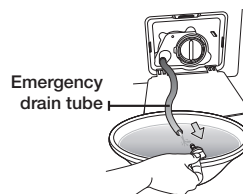
3. Open the emergency drain cap by pulling it.



4. Hold the cap on the end of the emergency drain tube and slowly pull it out.
5. Allow all the water to flow into a bowl.

Remain water maybe more than you expected. Prepare larger bowl.

6. Reinsert the emergency drain cap and the drain tube.
7. Replace the filter-cover.



cleaning and maintaining your washing machine

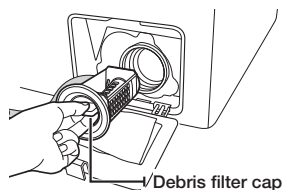
CLEANING THE DEBRIS FILTER

We recommend cleaning the debris filter 5 or 6 times a year, or when the error message of “5E” is displayed. (Refer to “Draining the washing machine in an emergency” in the previous section.) If foreign substances accumulate debris filter, the performance of the bubble function will be degraded.

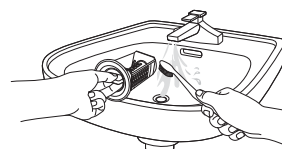


CAUTION Before cleaning the debris filter, make sure to unplug the power cord.

1. Remove the remaining water first (refer to “Draining the washing machine in an emergency” on page 57.)
 - ☞ If you separate the filter without draining the remaining water, the remaining water may trickle out.
2. Open the filter cover by using a key or coin.
3. Unscrew the emergency drain cap by turning it to the left and drain off all the water.
4. Unscrew the debris filter cap.



5. Wash any dirt or other material from the debris filter. Make sure the drain pump propeller behind the debris filter is not blocked.
6. Replace the debris filter cap.
7. Replace the filter cover.



CAUTION Do not open the debris filter cap while the machine is running or hot water may flow out.

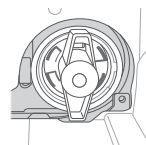


- Make sure to replace the filter cap after the filter cleaning. If the filter is out of the machine, your washing machine may malfunction or leak water.
- The filter should be fully assembled after the filter cleaning.



For models with the safety filter cap

- To open, push in, and then turn the safety filter cap counterclockwise. The spring in the cap will make opening the cap easy.
- To close, turn the safety filter cap clockwise. As you turn the cap, the spring will make a rattling sound. The rattling sound is normal.

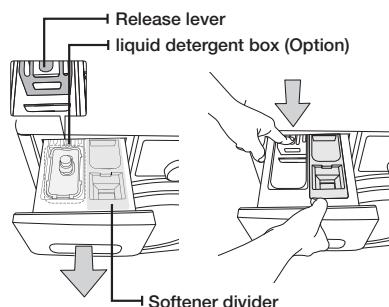


CLEANING THE EXTERIOR

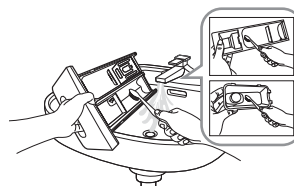
1. Wipe the washing machine surfaces, including the control panel, with a soft cloth using a nonabrasive household detergent.
2. Use a soft cloth to dry the surfaces.
3. Do not pour water onto the washing machine.

CLEANING THE DETERGENT DRAWER AND DRAWER RECESS

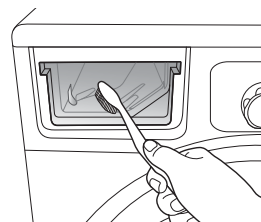
1. Press the release lever on the inside of the detergent drawer and pull the drawer out.
2. Remove the softener divider and the liquid detergent box (option) from the detergent drawer.



3. Wash all parts under running water.



4. Clean the drawer recess with an old toothbrush.
5. Replace the softener divider and the liquid detergent box (option) by pushing it firmly into the drawer.
6. Push the drawer back into place.
7. To remove any remaining detergent, perform a rinse cycle without any laundry in the drum.



CLEANING THE WATER HOSE MESH FILTER

You should clean the water hose mesh filter at least once a year, or when the error message of "4E" is displayed:

1. Turn off the water supply to the washing machine.
2. Unscrew the hose from the back of the washing machine. To prevent water from gushing out due to the air pressure in the hose, cover the hose with a cloth.
3. Gently pull out the mesh filter from the end of the hose using a pair of pliers and rinse it under water until clean. Also clean inside and outside the threaded connector.
4. Push the filter back into place.
5. Screw the hose back onto the washing machine.
6. Make sure the connections are watertight and turn on the tap.

cleaning and maintaining your washing machine

REPAIRING A FROZEN WASHING MACHINE

If the temperature drops below freezing and your washing machine is frozen:

1. Unplug the washing machine.
2. Pour warm water over the tap to loosen the water supply hose.
3. Remove the water supply hose and soak it in warm water.
4. Pour warm water into the washing machine drum and let it sit for 10 minutes.
5. Reconnect the water supply hose to the water tap and check if the water supply and drain are operating normal.

STORING YOUR WASHING MACHINE

If you need to store your washing machine for an extended time, it's better to drain and disconnect it.

Washing machines can be damaged if water is left in the hoses and internal components before storage.

1. Select the **Cotton** cycle and push the **Quick Wash** button and run your washing machine through the cycle without a load.
2. Turn the water taps off and disconnect the inlet hoses.
3. Unplug your washing machine from the electrical outlet, and leave your washing machine door open to allow air to circulate inside the tumbler.



If your washing machine has been stored in below-freezing temperatures, allow time for any leftover water in your washing machine to thaw out before using it.

troubleshooting and information codes

CHECK THESE POINTS IF YOUR WASHING MACHINE...

PROBLEM	SOLUTION
Will not start	<ul style="list-style-type: none">• Make sure your washing machine is plugged in.• Make sure the door is firmly closed.• Make sure the water source tap(s) are turned on.• Make sure to press the Start/Pause button.
Has no water or not enough water	<ul style="list-style-type: none">• Turn the water tap on fully.• Make sure the water source hose is not frozen.• Straighten the water intake hoses.• Clean the filter on the water intake hose.
Has detergent remaining in the detergent drawer after the wash cycle is complete	<ul style="list-style-type: none">• Make sure your washing machine is running with sufficient water pressure.• Make sure the detergent is added to the center of the detergent drawer.
Vibrates or is too noisy	<ul style="list-style-type: none">• Make sure your washing machine is on a level surface. If the surface is not level, adjust the washing machine feet to level the appliance.• Make sure that the shipping bolts are removed.• Make sure your washing machine is not touching any other object.• Make sure the laundry load is balanced.
The washing machine does not drain and/or spin	<ul style="list-style-type: none">• Straighten the drain hose. Eliminate kinked hoses.• Make sure the debris filter is not clogged.
Door is locked shut or will not open.	<ul style="list-style-type: none">• The door will not open until 3 minutes after the machine stops or the power turns off.

If the problem persists, contact your local Samsung Customer Service.

troubleshooting and information codes

INFORMATION CODES

If your washing machine malfunctions, you may see an information code on the display. If this happens, please check the table below and try the suggested solution before calling Customer Service.

CODE SYMBOL	SOLUTION
dE	<ul style="list-style-type: none">• Make sure the door is firmly closed.• Make sure that laundry is not caught in the door.
4E	<ul style="list-style-type: none">• Make sure the source water tap is turned on.• Check the water pressure.• Clean the mesh filters of water hose.
5E	<ul style="list-style-type: none">• Clean the debris filter.• Make sure the drainage hose is installed correctly.• Clean the water hose mesh filter.
UE	<ul style="list-style-type: none">• The laundry load is unbalanced. Redistribute the load. If only one item of clothing needs washing, such as a bathrobe or pair of jeans, the final spin result might be unsatisfactory and an "UE" error message will be shown in the display window.
cE/3E/Uc	<ul style="list-style-type: none">• Call the after-sales service.

For any codes not listed above, or if the suggested solution doesn't fix the problem, call your Samsung Service Centre or local Samsung dealer.

cycle chart

CYCLE CHART

(● user option)

PROGRAM	Max load(kg)	DETERGENT			Max Temp (°C)	Spin Speed(MAX) rpm
		Prewash	wash	Softener		WF12F9E6P4*
Cotton	12.0	●	yes	●	95	1400
Synthetics	6.0	●	yes	●	60	1200
Denim	3.0	●	yes	●	60	800
Bedding	2.5	●	yes	●	40	800
Dark Garment	6.0	●	yes	●	40	1200
Daily Wash	4.0	●	yes	●	60	1400
Eco Drum Clean	-	-	-	-	70	400
Super Eco Wash	6.0	●	yes	●	40	1200
Outdoor Care	2.0	-	yes	●	40	1200
Baby Care	6.0	●	yes	●	95	1400
Wool	2.0	-	yes	●	40	800
Hand Wash	2.0	-	yes	●	40	400

























PROGRAM	Delay End	Easy Iron	Intensive	Soak	Quick Wash
Cotton	●	●	●	●	●
Synthetics	●	●	●	●	-
Denim	●	●	●	●	-
Bedding	●	●	●	●	-
Dark Garment	●	●	●	-	-
Daily Wash	●	●	●	●	-
Eco Drum Clean	●	-	-	-	-
Super Eco Wash	●	●	●	●	-
Outdoor Care	●	-	-	-	-
Baby Care	●	●	●	●	-
Wool	●	-	-	-	-
Hand Wash	●	-	-	-	-

1. A cycle with a prewash takes approx. 17 minutes longer.
2. The cycle duration data has been measured under the conditions specified in Standard IEC60456/ EN60456.
Please run Calibration Mode after the installation (see page 21).
3. Daily Wash : Short program for test institutes.
4. Since this washing machine comes with the Last Memory function, to remove the Last Memory setting and use the original startup settings, you need to clear the last used setting on the control panel. (For information on how to clear the last used setting, refer to the descriptions about the "Last Memory function" on page 22.)
5. Course time in individual homes may differ from the values given in the table due to variations in the pressure and temperature of the water supply, the load and the type of laundry.
6. When the Intensive Wash function is selected, the cycle time is increased for each cycle.

appendix

FABRIC CARE CHART

The following symbols provide garment care directions. The care labels include four symbols in this order: washing, bleaching, drying and ironing (and dry cleaning when necessary). The use of symbols ensures consistency among garment manufacturers of domestic and imported items. Follow the care label directions to maximize garment life and reduce laundry problems.


	Resistant material		Can be ironed at 100 °C max
	Delicate fabric		Do not iron
	Item may be washed at 95 °C		Can be dry cleaned using any solvent
	Item may be washed at 60 °C		Dry clean with perchloride, lighter fuel, pure alcohol or R113 only
	Item may be washed at 40 °C		Dry clean with aviation fuel, pure alcohol or R113 only
	Item may be washed at 30 °C		Do not dry clean
	Item may be hand washed		Dry flat
	Dry clean only		Can be hung to dry
	Can be bleached in cold water		Dry on clothes hanger
	Do not bleach		Tumble dry, normal heat
	Can be ironed at 200 °C max		Tumble dry, reduced heat
	Can be ironed at 150 °C max		Do not tumble dry

PROTECTING THE ENVIRONMENT

- This appliance is manufactured from recyclable materials. If you decide to dispose of this appliance, please observe local waste disposal regulations. Cut off the power cord so that the appliance cannot be connected to a power source. Remove the door so that animals and small children cannot get trapped inside the appliance.
- Do not exceed the detergent quantities recommended in the detergent manufactures' instructions.
- Use stain removal products and bleaches before the wash cycle only when strictly necessary.
- Save water and electricity by only washing full loads (the exact amount depends upon the program used).

SHEET OF HOUSEHOLD WASHING MACHINES (EU ONLY)

According to Regulation (EU) No. 1061/2010

 " * " Asterisk(s) means variant model and can be varied (0-9) or (A-Z).

Samsung			
Model Name			WF12F9E6P4*
Capacity	kg		12
Energy Efficiency			
A+++ (highest efficiency) to D (least efficient)			A+++
Energy Consumption			
Annual Energy Consumption (AE_C) ¹⁾	kWh/yr		198
Energy consumption (E_t.60) Cotton 60 °C at full load	kWh		1.06
Energy consumption (E_t.60.1/2) Cotton 60 °C with partial load	kWh		0.87
Energy consumption (E_t.40.1/2) Cotton 40 °C with partial load	kWh		0.62
Weighted power off-mode (P_o)	W		0.48
Weighted Power in left-on mode (P_l)	W		5
Annual water consumption (AW_c) ²⁾	L/yr		12100
Spin efficiency class ³⁾			
A (most efficient) to G (least efficient)			B
Maximum Spin Speed	rpm		1400
Residual moisture	%		53
Programs to which the information on the label and the sheet relate			Cotton 60 °C and 40 °C + Intensive ⁴⁾
Program duration of the standard program			
Cotton 60 °C at full load	min		244
Cotton 60 °C for partial load	min		216
Cotton 40 °C with partial load	min		176
Weighted time in left-on mode	min		2
Airborne noise emissions			
Wash	dB (A) re 1 pW		52
Spin	dB (A) re 1 pW		72
Dimensions			
Unit dimensions	Height	mm	850
	Width	mm	600
	Depth ⁵⁾	mm	600
Net weight	kg		71
Gross weight	kg		74
Package weight	kg		3
Water Pressure	kPa		50-800
Electrical connection			
Voltage	V		220-240
Power consumption	W		2000-2400
Frequency	Hz		50
Name and address of company			Samsung Electronics Co., Ltd.

appendix



1. Annual energy consumption is based on 220 standard washing cycles for cotton programs at 60 °C and 40 °C at full and partial load, and the consumption of off and left-on modes. Actual energy consumption will depend on how the appliance is used.
2. Annual water consumption is based on 220 standard washing cycles for cotton programs at 60 °C and 40 °C at full and partial load. Actual water consumption will depend on how the appliance is used.
3. Spin extraction is very important when you use a clothes dryer to dry your clothes.
The energy for drying costs much higher than the energy for washing.
Wasing with the high spin saves more energy in drying your clothes in a clothes dryer.
4. The 'standard cotton 60 °C program' and 'standard cotton 40 °C program', which can be selected by adding the Intensive option to the cotton 60 °C and cotton 40 °C program, are suitable to clean normally soiled cotton laundry and they are the most efficient (concerning water and energy consumption) for this type of laundry.
Please run Calibration Mode after the installation (see page 21).
In these programs the actual water temperature may differ from the declared temperature.
5. Distance to the wall from the unit is not included in the depth dimension.

INFORMATION OF MAIN WASHING PROGRAMMES

Model	Course	Temp (°C)	Capacity (kg)	Program Time (min)	Residual Moisture Content (%)	Water Consumption (ℓ/cycle)	Energy Consumption (kWh/Cycle)
WF12F9E6U4W	Cotton	20	6	129	56	85	0.35
	Cotton + Intensive	40	6	176	53	47	0.62
		60	6	216	53	47	0.87
			12	244	53	65	1.06
	Synthetics	40	6	138	35	75	1.06

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