

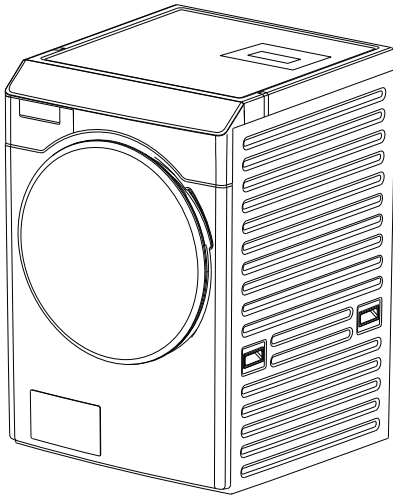
Panasonic®

Operating & Installation Instructions Washer Dryer

Model No.

NA-S180X2LSA/NA-S180X2LAS

(Household use)



It is essential to read these instructions.

Proper use will help you save more power and water!

Thank you for buying our washing machine.

- Please read the instructions in detail before use, use it correctly and keep them properly.
- This product is suitable for general household use, but not suitable for business purposes. For details, please refer to the instructions on services excluded from warranty.



AWW9901HONH0-0H0

Contents

Safety Precautions	2
Part names/Accessories	6
Installation	7
Touch Panel	12
Recommended Features	13
Door lock	15
Laundry Procedure	16
Selecting the Program	18
Laundry Check and Preparations	20
How to put in Detergent and Softener	22

Read before use

Wash/Wash+Dry	24
Normal/StainMaster+	26
• Normal	26
• Manual Setting/Eco Soak	27
• Intensive/Silent Wash	28
• Quick/My favorite	29
Wash large blankets or sheets (Bedding, Remove mites)	30
StainMaster+ • Super Soak	31
StainMaster+ • Wash/Hygiene	32
Wash gentle hand wash clothes	33
Dry Mode	34
Use nanoe™ X	36
Program Details	38

How to use

Maintenance	40
• Dryer filter/Detergent case	40
• Exhaust filter/Main unit/Window seal/ Drain filter	41
• Tub Clean/Tub Dry	42

Maintenance

Other notes	43
Changing the Settings	44
Error Messages	45
For Better Results	46
FAQ	48
Troubleshooting	50
Specification	55
Service Warranty Exclusions/ Product checking and confirmation for long-time use	56



Reference

Safety Precautions

Please be sure to follow

Please be sure to follow the instructions below to avoid personal injury or property damage.

- The degree of harm or damage caused when the product is used incorrectly is distinguished and explained as follows.


 <h2 style="margin: 0;">WARNING</h2> <p>"May cause death or serious injuries."</p>	 <h2 style="margin: 0;">CAUTION</h2> <p>"May cause minor injuries or property damage".</p>
---	---










- Be sure to follow the instructions based on the following figures. (The following are examples of graphical representations)

 <p>"Prohibited" content that cannot be done.</p>	 <p>Be sure to follow the "Instructions".</p>
--	--

Prevent fire, electric shock or injury

WARNING

 This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

<ul style="list-style-type: none">  • Do not let children look into the washing tub. (so as not to be locked in the washing tub and suffocated, or suffer from burns, electric shocks or injuries.) <ul style="list-style-type: none"> • Do not place stools or similar objects next to the washing machine.  • The lint must not be allowed to accumulate around the appliance. • The lint filter has to be cleaned frequently. 	<ul style="list-style-type: none">  • Do not disassemble, repair or modify the washing machine. (so as not to cause fire or injury due to improper operation.) <ul style="list-style-type: none"> • When the copper foil circuit or fuse on the control board is blown, do not repair the broken wire by means of wiring. • Make sure that no objects are left in any of the pockets. Pay particular attention to cigarette lighters and matches. They may cause fire.
<ul style="list-style-type: none">  • Do not keep the machine close to heat sources (gas stoves, water heaters, etc.), and keep a distance of more than 1.5 meters. (otherwise a fire may be caused.) <ul style="list-style-type: none"> • Stay away from cigarettes, candles, mosquito coils, fairy sticks, etc. 	<ul style="list-style-type: none">  • Do not touch the clothes or other items in the washing tub before the tub completely stops. (even if the washing tub rotates very slowly, there is a possibility of injury if the fingers are entangled with clothes.)
<ul style="list-style-type: none">  • Do not rinse the washing machine directly with water (especially avoid the operation panel and switch) or place it in a damp place. (it may cause an electric shock or fire.) • Do not hit the glass door. (if the door of the washing tub breaks, please stop using the washing machine immediately.) 	<ul style="list-style-type: none">  • Do not install the machine in a place with much humidity or exposed to wind and rain. Otherwise, it may cause an electric shock or fire. • The appliance must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the appliance, in such a way that a full opening of the appliance door is restricted. This will prevent children from being locked in the drum.
<ul style="list-style-type: none">  • Do not obstruct the openings of the bottom face with carpet, etc. • Do not allow the metal parts of the machine body to make any electrical contact with the metal plates of the house or the stainless steel plates of the kitchen sink to avoid danger. • Children should be supervised to ensure that they do not play with the appliance. 	<ul style="list-style-type: none">  • During or just after the dewatering operation, do not touch the upper back of the machine body, the vent, the dewatering filter, the washing tub or the metal of the clothes part. Otherwise, it may cause burns due to the high temperature. • Do not dry unwashed items in the appliance.

WARNING

Power cord



Do not do the following

- (so as not to cause a fire or electric shock)
- Do not scratch, modify, forcefully bend, curl, pull, squeeze or bundle the power cord or place it near a heat source.
 - Do not plug or unplug the power plug with a wet hand.
 - Do not remove the power plug by pulling the power cord.
 - If the mains lead is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



Observe the following:

- (so as not to cause a fire or electric shock)
- Be sure to insert the plug firmly into the power outlet.
 - Regularly wipe the plug with a dry cloth. (if there is dust or moisture on the plug, it may damage the insulation and cause a fire)
 - If the washing machine will not be used for a long time or will be idle for repair or maintenance, please be sure to unplug the power plug.
 - The 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 a utility.

Notes on the use of the machine



Waterproof sheets or clothing is not suitable for laundry, washing or dewatering.

- (so as to prevent the washing machine from shaking violently during the dewatering process which may damage the washing machine, walls, floors, clothing or other items, or cause water leakage.)
- For down jackets, sleeping bags, diaper covers, diving (ski) jackets, bedspreads, quilt covers, bathrobes, ski suits, raincoats, windbreakers, dust covers for automobile and motorcycle, bicycle covers or similar clothing, and waterproof clothing.

Do not do the following:

- Do not put your hands or feet into the bottom of the washing machine. (so as not to have the hands and feet cut.)
- Do not climb on the washing machine or place heavy objects on it. (so as not to cause injury due to deformation or damage of the washing machine, especially the strengthened glass.)
- Do not directly pour hot water of 50 °C or above into the washing tub, or connect the washing machine directly to a water heater. (so as not to cause a short circuit or electric shock due to deformation or damage of plastic parts.)
- Do not put living objects in the tub; the tub can only be used for laundry or dewatering purposes.
- The air vent on the upper rear of the body should not be blocked by objects.
- Do not carry the product tilted or upside down to avoid damage to the parts and danger.



- Do not use alkaline soda or other chemicals to wash clothes.
- The appliance is not to be used if industrial chemicals have been used for cleaning.
- Fabric softeners, or similar products, should be used as specified by the fabric softener instructions.
- It is strictly forbidden to put in the washing machine clothes stained with volatile oil such as banana oil, scouring oil, machine oil, dry cleaning oil, beauty oil (skin care oil, massage slimming oil, aromatic essential oil, etc.), diesel gasoline, paint thinner, ordinary gasoline or wax resin (fiber material) for car waxing, or polypropylene fiber clothes, so as to avoid oil gasification which may cause fire or gas explosion.
- Items that have been soiled with substances such as cooking oil, acetone, alcohol, petrol, kerosene, spot removers, turpentine, waxes, wax removers and cosmetic oils must not be dried in the appliance even after having been washed.
- Items such as foam rubber (latex foam), shower caps, waterproof textiles, airtight fabrics, rubber backed articles and clothes or pillows fitted with foam rubber pads should not be dried in the appliance. Such materials may be destroyed and thereby damage the appliance.
- Products made of non-drying polypropylene fiber.
- Do not put the machine in a place that cannot be drained. (so as not to cause an electric shock due to the accumulation of water under the body)

Read before use

Safety Precautions

⚠ CAUTION

To prevent water leakage and injury...



Confirmation before operation (to avoid water leakage)

- Turn on the tap and check the connection status.
- No clothes are caught when closing the door.
(so as to avoid water leakage, machine malfunction or clothing rupture)
* Do not close the door when there is clothing on the edge of the door.
- Exhaust air must not be discharged into a flue which is used for exhausting fumes from appliances burning gas or other fuels.



■ Drain filter



- Do not remove it during operation
(so as to avoid a large amount of water (warm water) from flowing out).

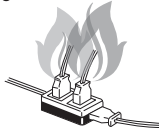


- Securely tighten the drain filter
(otherwise it may cause water leakage).
- Before removing, be sure to perform the "Spin" operation (P.41).



Do not use extension cords.

- Avoid sharing the power socket with other devices to avoid overheating and fire.



Please observe the following when drying clothes

- Do not stop the machine before the drying operation is over. (unless all clothes are taken out immediately for heat dissipation)
- At the end of the drying operation, the machine will perform a Fluffy process without using hot air to prevent damage to the clothes. (P.14)
- Please do not remove the dryer filter during the drying process.

To avoid water leakage, injury or other damage



- Do not use soap powder, baking soda or liquid soap when making a washing appointment (so as not to block and leak water)
- Do not put too much detergent in to avoid excessive foaming and poor cleaning.

Observe the following (otherwise it may cause water leakage):

- Turn on the faucet before use and check whether the water pipe is properly connected.
- Unplug the power plug from the socket immediately after use, and turn off the faucet.
- New hose-sets supplied with the appliance are to be used and old hose-sets should not be reused.

Safety Precautions

CAUTION

Emergency Treatment



When an abnormality or malfunction occurs, stop using the machine immediately and unplug the power cord.

(it may cause smoke, a fire or an electric shock)

Examples of exception or failure:

- The washing machine is started but does not run.
- When the power switch is pressed, sometimes the power is turned on but sometimes not.
- There is an abnormal sound when the machine is running.
- There is a smell of burning.
- Part of the body is deformed or abnormally heats up.

(please contact our service station immediately for inspection and repair.)

This appliance is intended to be used in household.

This appliance is not intended to be used in applications such as:

- staff kitchen areas in shops, offices and other working environments;
- farm houses;
- by clients in hotels, motels and other residential type environments;
- bed and breakfast type environments;
- areas for communal use in blocks of flats or in launderettes.

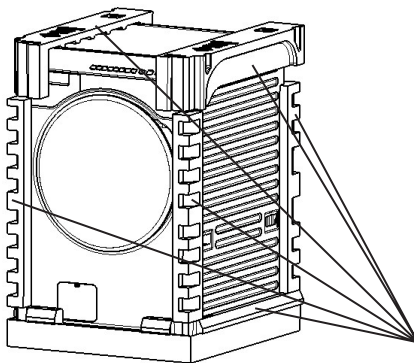
- Never stop the appliance before the end of the drying cycle unless all items are quickly removed and spread out so that the heat is dissipated.
- For maximum mass of dry cloth and pressure of water faucet, see page 55.

■ Restart function

In case of power failure during washing operation:

When power is on again, press power ON key, the "Running" light flashes for 3 seconds before the original operation resume from where it is interrupted.

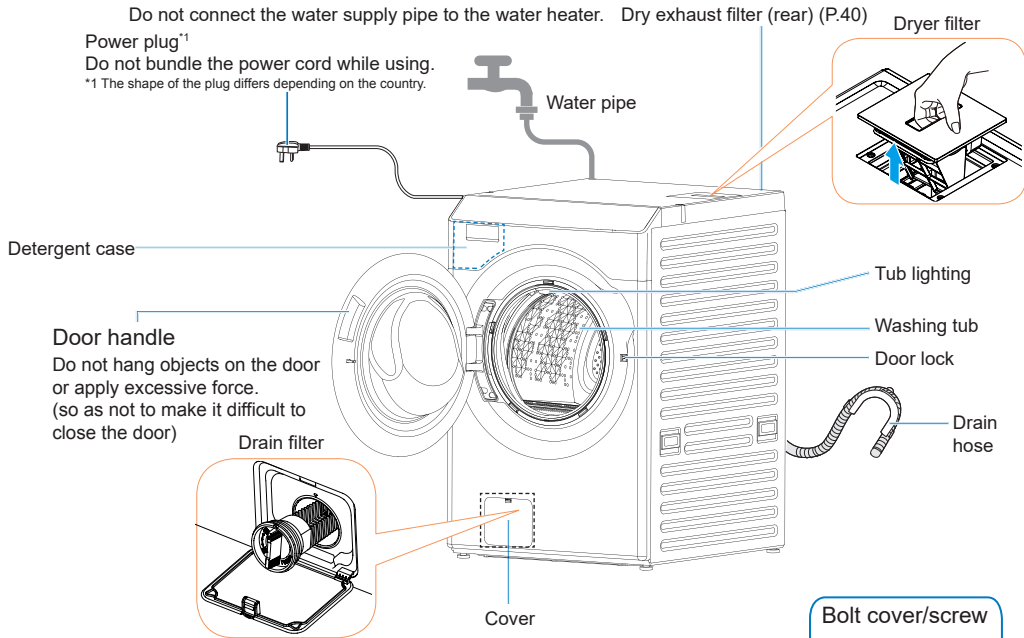
■ Instruction for packing and unpacking the unit.



Remove all packing cushions before starting to use the washing machine.

Read before use

Part names/Accessories



Instruction

After the operation is over (within about 120 minutes), the lighting lamp will light on as soon as the door is opened; when the door is closed, the power supply will be automatically cut off.

When the door is open, the lighting lamp will be turned off after 20 minutes and the power will be cut off automatically.

※When the power is turned on and the door is open, the lighting lamp in the washing tub will light up.

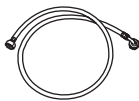
Bolt cover/screw

 4 pcs

 8 pcs

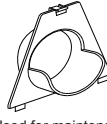
Accessories

1 Water supply hose for COLD (Blue line)



Sub drain outlet

1 pc.



※ Used for maintenance.
(P.41)

Wrench

1 pc.



※ Used for fixing bolts for disassembly/packing and level adjustment.
※ Must be used when moving.

Adjusting foot gasket



To prevent malfunction, damage and abnormal operation

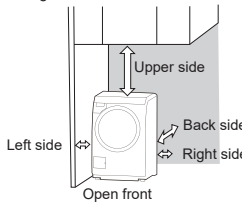
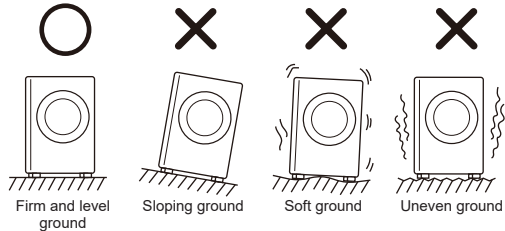
- When the body (especially the door and the operation panel) is stained with detergent or softener, please wipe it with a wrung out towel immediately (to avoid the peeling of printed fonts, resin damage, metal corrosion or abnormal operation). Especially the body may crack when concentrated liquid detergent touches the resin part; please pay special attention.
- Adequate ventilation is required to avoid moisture condensation during dewatering.
- When running, do not place objects on top (so as not to fall due to vibration).
- Even in the off state, please avoid the basket and other objects from touching the water supply pipe (to avoid deformation of the water supply pipe).
- When using collar washing detergent, do not spray it on plastic parts to avoid damage.
- Do not spray insecticides, hairdressing products, deodorant sprays, etc. (to avoid body failure or damage).
- Do not install the machine near TVs, radios or other home appliances (so as not to disturb the image and cause noises).
- The door will be automatically locked after it is closed and the machine starts.※ When the door lock is on or off, there will be a loud "click" sound. This is not a malfunction.)
- When drying clothes, please do not block the air vent on the upper right of the back of the body (so as not to prolong the drying time)
- Please remove the protective film before using the operation panel to avoid malfunction.

Installation

1. Preparation before installation

1 Confirmation of Installation Site

- Places suitable for installation
 - Places with convenient power supply, water supply and drainage.
 - Flat ground. Do not place the machine on an uneven or unstable ground (such as hollow cement bricks, square wood, bricks, tables with small wheels, etc.)
 - Places with little humidity and no rainfall.
 - Places not exposed to direct sunlight.
 - Keep away from fire and high heat.
 - Places that does not freeze in winter.
 - Do not hang the washing machine or place it on a suspended platform.
 - The inclination of the setting plane cannot exceed 1°. (Do not tilt the washing machine forward.)
 - If the washing machine is installed on a carpet, please make sure that the carpet does not block any ventilation openings.
 - Do not install the machine behind a lockable door, a sliding door, or a door with a door chain behind it, so as not to block the washing machine door from being fully open.



Place	Distance (cm)
Upper side	20
Left side	15
Right side	15 ~ 20*Note
Back side	10
Underside	0

Note: A distance of 15-20 cm between the right side of the machine and the wall is recommended to facilitate the cleaning of the rear exhaust filter.

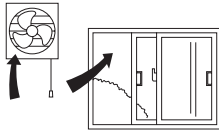
- When storing and placing, please keep the front empty and leave the wall at a distance above the measurement shown in the table.

Attention

- Please be careful not to accumulate silky debris around the body.
- Please be careful not to allow the metal parts of the machine body to come into contact with the metal plates of the house, the stainless steel plates of the kitchen sink, etc. to avoid any electricity related danger.
- Please do not block the lower part of the machine body with carpets or other items.
- Please be sure to carry the machine by two people together.

Adequate ventilation

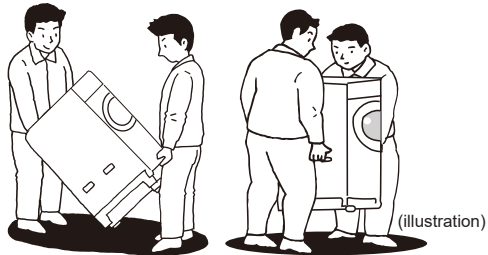
To ensure the performance of the product, please keep the ventilation well during operation.



※ If the ventilation is insufficient, depending on the temperature difference, a little condensation may appear on the windows, grooves, walls, etc., or the drying time will be longer.

2 Confirmation of Power Supply

- Please confirm the ground resistance value (100 Ω or below).
- There must be a leakage circuit breaker. If the power circuit used does not have a leakage circuit breaker, be sure to install it.
- Please do not connect the machine to the grounding circuit of gas pipes, water pipes, telephones or lightning rods, or the grounding circuits of other products equipped with leakage circuit breakers.



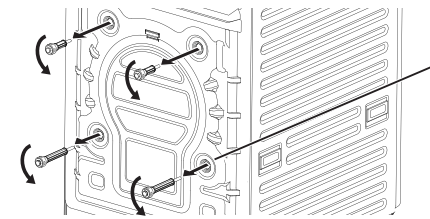
- When the body is tilted forward due to installation, do not use brutal force (with knees, etc.) to push the center of the door. (so as not to deform the door)



Read before use

2. Remove the fixing bolts for transportation and install the bolt cover.

In order to prevent abnormal vibration!



1 Use the attached wrench to remove the fixing bolts for transportation.

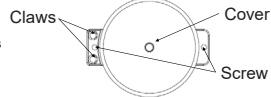
Remove the 4 fixing bolts for transportation that fix the inside. If the machine directly operates with the fixing bolts for transportation on, the vibration will increase or the product (the machine body) will shake, which is quite dangerous.

Attention

- The dismantled fixing bolts for transportation and the attached wrench will be needed in situations such as moving. Please deliver them to the customer.
- After transporting the machine, please install it in the reverse order.

2 Install the attached bolt cover with screws (4 places).

Insert the claws covered by the bolts into the holes and fix them with screws.



Attention



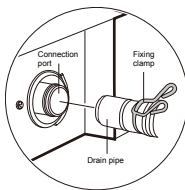
Be sure to install the bolt cover.

(so as not to get injured due to penetration.)

3. Connecting the water hose

Connecting the water hose

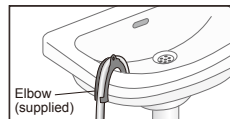
1 Connect the water hose to the connection port



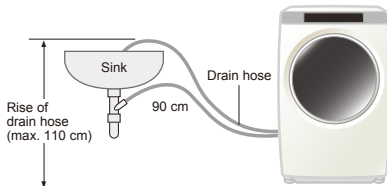
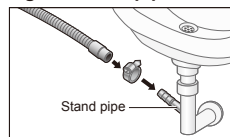
■ Draining to a sink or wash basin

CAUTION

Secure the drain hose with an elbow so that it does not come off due to water pressure during drainage.



■ Draining to a stand pipe



4. Connect the water supply hose fitting and water supply hose

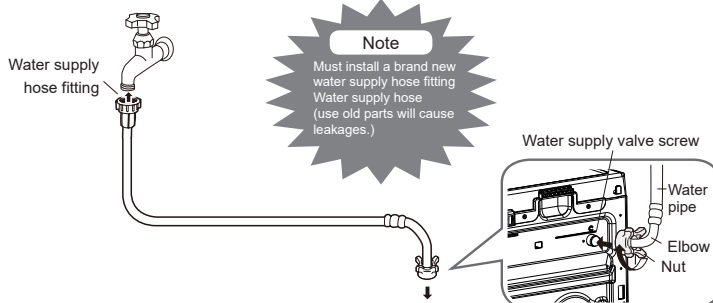
- 1 Press the other end of the water supply hose connected to the washing machine straight against the cold water faucet, and tighten the nut clockwise with your hand.

Note

For easy path of the water supply hose, after deciding the position of the elbow part, lock the nut straightly and firmly until the end.
(Not locking firmly will cause leakage)
When installing the water supply hose, please keep proper length and do not over-pull to prevent leakage.

- 2 Likewise, connect the other end of the water supply hose to the water supply valve of the washing machine.

- Turn on the water faucets to check that water leaks from neither the water supply valves of the washing machine nor the water faucets.



Note

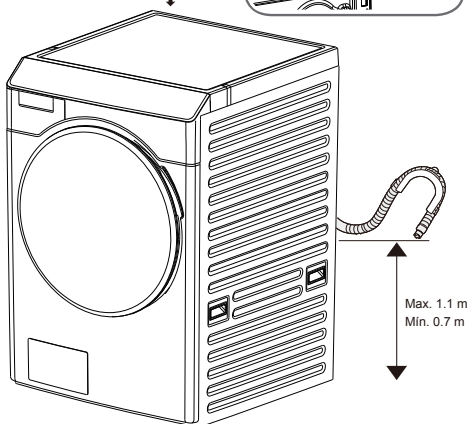
Must install a brand new water supply hose fitting
Water supply hose
(use old parts will cause leakages.)

■ How to remove the water supply hose

1. Turn off the water faucet.
2. Close the door, turn the power ON, and then press start to drain the water inside the pipe. (to prevent the water from scattering)
3. Turn off the power after about 1 minute.
4. Push the fixing rod downward, pull down the lid, then remove the water supply hose.

■ Do not use [Stain Master+] when drying.

As it cannot proceed with cooling and dehumidifying, and the clothes cannot be dried.



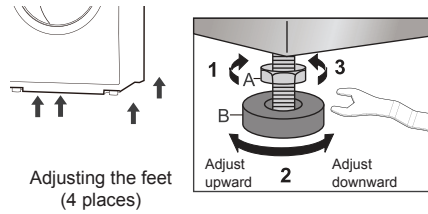
Read before use

5. Check the levelness

■ Horizontal adjustment

When the four feet are standing on the ground, the machine must be level and the machine must not shake. (adjust the level by adjusting the height of the feet)

1. Use a thin wrench to loosen the screw cap A.
2. Rotate as shown in the figure to adjust the height of feet B (4 places).
3. Use a level to confirm whether to adjust the levelness.
4. Tighten the nut A upwards to prevent the feet from loosening.



※ If necessary, you can adjust the foot pad to reach the required level of the machine.

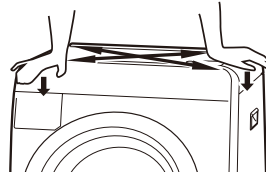
Note 1: Do not use plastic gaskets alone.

2: Plastic gaskets cannot be placed at the bottom.

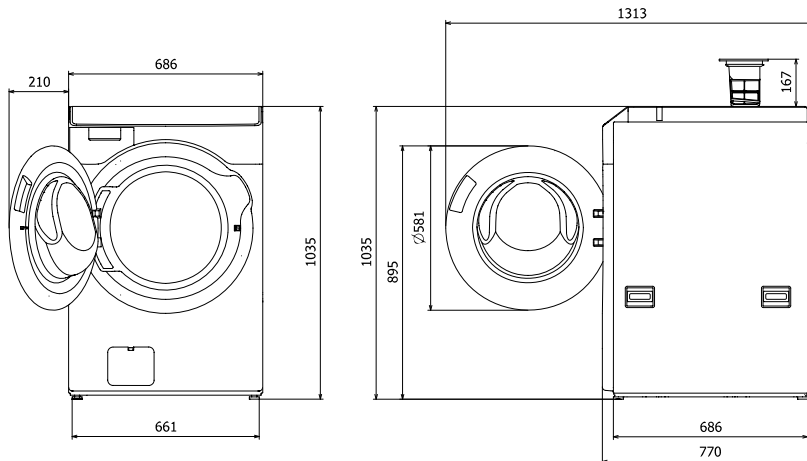
■ How to confirm the damage due to long servicing time

Please alternately press the corners of the top surface to confirm whether the machine is shaking or the feet are damaged after a long servicing time.

If it is damaged due to long service, please adjust the height of the feet and confirm the levelness with a level.



6. Product dimensions



Weight: 105 kg

※Please pay attention to the distance between the door and the wall when the door is open.

7. Conduct a test and trial run after installation.

- Please do not put anything in the washing tub, and confirm "there is no water leakage, abnormal sound or vibration" and "the machine can drain normally".

Trial run method

- ① Confirm whether the fixing bolts for transportation are removed, and install the cover
 - ② Open the faucet, and close the door.
 - ③ Press **Dry Mode**, and also press **On/Off** at the same time for 2 seconds.
 - ④ When **888** is displayed, press **Wash Program**.
- Start running (will automatically stop after about 4minutes).

- Is there any abnormal sound or vibration?→Please check the levelness. (adjust the feet to be in stable contact with the ground without shaking.)
- Is there a water leak?→Please connect the water pipe correctly.
- An error report will be issued when the following exceptions occur.

U11 ※1

- Is the drain pipe properly connected?
- Is the drain blocked?

U14 ※1

- Is there any connection to the water supply pipe to turn on the faucet?

※1. After the error status is released, if the door is opened and closed, the trial run will be restarted.

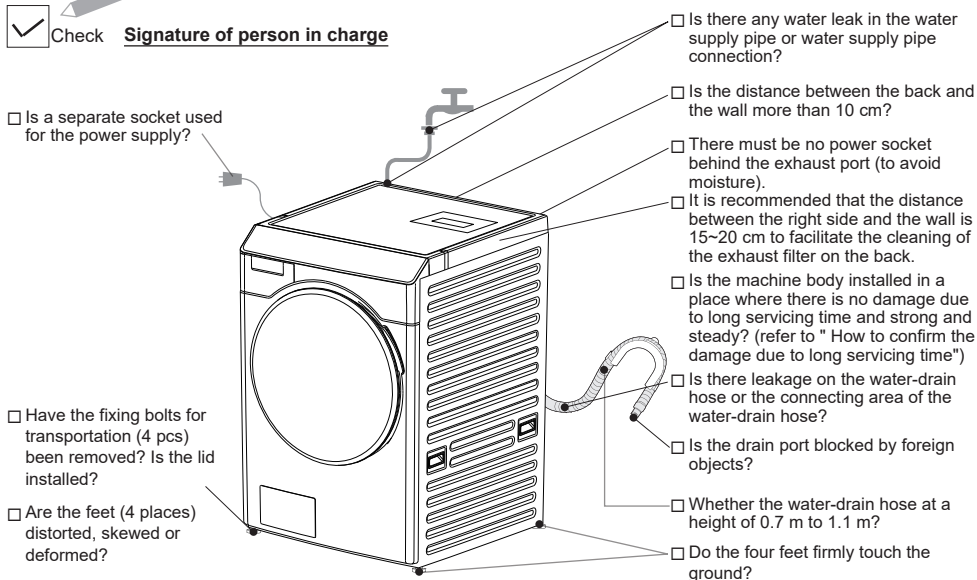
Read before use

8. Safety Check by Dedicated Personnel

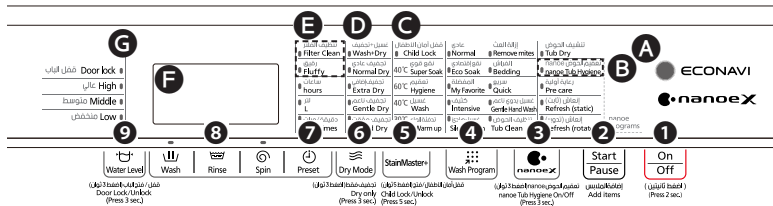
Test items

Please check the following items after installation and perform a trial run. After the inspection, be sure to sign and inform the customer that the installation is complete.

Check Signature of person in charge



Touch Panel



<p>1 On/Off Power switch</p> <p>Press when the power is turned on.</p> <ul style="list-style-type: none"> The machine will automatically shut down after washing. If the [Start/Pause] button is not pressed after the power is turned on, the machine will automatically turn off after 10 minutes. The power button must be pressed for 2 seconds to switch on or off the power. 	<p>6 Dry Mode Dry Mode (press for 3 seconds to switch between Wash and Dry Mode)</p> <p>You may choose the drying modes of "Normal Dry", "Extra Dry", "Gentle Dry" and "Timed Dry" according to the state of the clothes. (P.35)</p> <ul style="list-style-type: none"> Press for 3 seconds to select only "Dry Mode". (P.34)
<p>2 Start/Pause Start/Pause</p> <p>Press it to start or pause the operation, and when to open the door during operation.</p> <ul style="list-style-type: none"> After starting, the switch among "Wash", "Wash+Dry" and "Dry Mode" cannot be performed. 	<p>7 Preset Scheduled ending time</p> <p>With 1 hour as the unit, set the number of hours (less than 24 hours) for the scheduled completion of Wash or Dry Mode.</p> <ul style="list-style-type: none"> The scheduled time varies depending on the program. (P.39) For the "Wash+Dry" appointment, the time will be adjusted automatically according to the type of clothes and the state of dryness; the drying operation may be completed earlier or later than the reserved time. Do not use liquid soap when making an appointment. (P.22)
<p>3 nanoe™ X nanoe™ X</p> <p>You can choose nanoe™ X "Pre care", "Refresh (rotate)", and "Refresh (static)" programs. (P.36)</p> <ul style="list-style-type: none"> After selecting the program, press it for 3 seconds to perform "nanoe Tub Hygiene". The program of nanoe™ X "nanoe Tub Hygiene" cannot be selected alone by pressing this button. <p>nanoe™ X and the nanoe™ X mark are trademarks of Panasonic Corporation.</p>	<p>8 Wash Rinse Spin Manual Setting</p> <p>You may choose the time or frequency of "Wash", "Rinse" and "Spin".</p> <ul style="list-style-type: none"> When you want to change the selection, press Start/Pause during the "Wash" to change. (it is not possible to change the program at the beginning of the rinse program) (P.27) Setting the combination of "Wash", "Rinse" and "Spin" according to your purpose → (P.27)
<p>4 Wash Program Select the program</p> <p>You can choose your preferred program according to the state of the laundry and dirtiness.</p> <ul style="list-style-type: none"> How to choose the program → (P.18) Under "Wash", "Wash+Dry", and "Drying", there are different alternative programs. 	<p>9 Water Level Water Level (press for 3 seconds to release the door lock during drying)</p> <p>Pause and then press it when you want to adjust the water level other than the automatic water level of the laundry.</p> <ul style="list-style-type: none"> Depending on the program, some water levels cannot be selected. (P.39) At the end of the drying process when the temperature is lowered, you can press for 3 seconds to cancel the drying and unlock the door, and take out the clothes in advance.
<p>5 StainMaster+ StainMaster+ (press for 5 seconds to set/deactivate child safety).</p> <p>To set StainMaster+, or heat the water to about 30 °C for washing when the water temperature is low. (P.13)</p> <ul style="list-style-type: none"> To prevent children from arbitrarily opening the door of the washing machine and falling into the washing tub, press and hold it for more than 5 seconds to set the "Child Lock". (P.15) 	<p>E Fluffy : Light on: Fluffy is set after the program is over. Flashing: Fluffy is in progress after the program is over.</p> <p>Filter Clean : Flashing: Please clean and maintain the dryer filter/exhaust filter/drain filter (P.40, 41)</p>
<p>A ECONAVI ECONAVI Operation indicator</p> <p>Light on: ECONAVI program is running. Flashing: ECONAVI program is being detected.</p>	<p>F Display of "Remaining Time"/"Scheduled Time"</p> <p>Power "off" is switched to "on"</p> <p>When is displayed, you cannot "turn on" the power.</p>
<p>B nanoe Tub Hygiene nanoe Tub Hygiene indicator</p> <p>nanoe™ X light on: The nanoe Tub Hygiene program is set. nanoe™ X light flashing: The nanoe Tub Hygiene program is in progress.</p>	<p>G Door Lock : Light is on: The program is in progress, and the door lock is on. After starting, the door will be automatically locked.</p>
<p>C Child Lock Child Lock indicator</p> <p>Light on: The Child Lock is set.</p> <p>D Wash+Dry Wash+Dry indicator</p> <p>Light on: The program selected is "Wash+Dry".</p>	

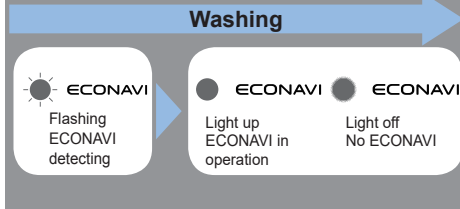
- * After starting, the touch button will no longer be sensing. If you want to execute the action of the button, press "Start/Pause" before the execution.
- * When water, detergent or softener drips onto the touch button, please turn off the power and wipe it clean to avoid malfunction.
- * When touching the button, please touch the text part to select the operation (cannot be operated with nails, pens, rubber gloves, etc.).
- * Do not operate the touch panel when your fingers are wet or when wearing gloves.

Recommended Features

ECONAVI

Based on the detection of wash volume and ambient temperature
Save water and electricity for you according to different needs.

Notify the ECONAVI status by lighting up!



Instruction

- You may choose not to perform ECONAVI operation. (P.44)

Active smart sensor of energy-saving technology
Temperature sensing: Detect the water temperature and adjust the most suitable wash time.
Clothing weight perception: Inject appropriate washing water according to the motor's sensing of the laundry load.

(Please note)

- Which programs can ECONAVI sense?
 - The "Normal" program, (Wash and Wash+Dry) which must include washing and more than two washings.
- Why can't I perform the ECONAVI energy-saving program?
 - Too much detergent is put in (the sensor judges that there is too much foam).
 - Initially there was water in the tub.
 - No washing time was set, or the number of washing cycles is less than 2, including rinse.

Read before use

StainMaster+

Set the water temperature of "Wash"

Instruction

- The feature of StainMaster+: After the water supply is completed, the heater is turned on to heat the water to improve the washing power. Because it takes time to heat the water, it is possible that the washing time may not be set below 30 minutes.
- The display time may change after the temperature of the water is detected.
- It may not rise to the set temperature due to factors such as the set time, wash volume, water temperature.
- Some programs cannot be set for 30 °C Water Warm Up (P18).
- It is not warm water after Rinse.
- When the washing machine detects too much foam, it will stop the Water Warm Up program and go directly to Rinse.

Remove mites program

Pre-dry the laundry with warm air before washing, peel off the mites attached to the fibers, and rinse off the allergens (mite feces or corpses).

About 90 minutes[※]

Pre-drying → Wash or Wash+Dry

※ When the room temperature is 20 °C



Washable Items



Blankets



Blanket material cloth cover, etc.

Fluffy

(soft and fluffy)

Makes the laundry fluffy after washing

No Soft and Fluffy

Soft and Fluffy



After wash and dry, the tub will rotate at a low speed, and the air will be blown at the same time to soften the clothes. By keeping the capacity below 5 kg, the hardening of clothes can be avoided.

(there may be cases where the sound becomes louder or the vibration more violent during operation)

The program and time for "Fluffy" are approximately
Wash - "Normal", "My Favorite", "Intensive", "Normal+Pre care",
"Silent Wash", "Eco Soak" or "40 °C" (Wash): 1 minute
"60 °C" (Hygiene): 15 minutes
"Super Soak": 30 minutes

Dry Mode - "Normal Dry", "Extra Dry" or "Gentle Dry": about 2 hours

- A small amount of clothing or towels may stick to the inner wall of the tub and become hard. To prevent clothing from sticking to the inner wall of the tub → (P.47)
- You can choose to set whether to perform Fluffy after drying. (P.44)
- The initial setting of drying is No Fluffy.

nanoe™ X

The following are the 5 major functions to maintain the tub and clothes

nanoe™ X are nano-sized electrostatic atomized water particles with 4.8 trillion/sec OH radicals of nanoe™.

Bacteria Inhibition

→program: Pre care (P.36)
Inhibits bacteria even on not water washable items.

Deodorization

→program: Refresh (rotate)/Refresh (static)/Pre care (P.36)

nanoe™ X can remove odors such as cigarette smell attached on clothes or items. Also, very convenient when rearranging clothes for season change.

- * The effect will vary depending on the items volume, clothing type, and degree of odors.

Break down sebum

→program: Pre care (P.36)
Stubborn sebum is broken down by nanoe™ X, and getting more easily to be washed away by wash program.

Suppress smell during preset

→Laundry Basket mode (during preset waiting)

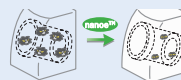
Suppress the smell of the laundry in the tub during preset waiting time. (up to 23 hours)

- The "Laundry Basket mode" will appear about 2 minutes after the preset is set.
- To turn off "Laundry Basket mode". (P.44)
- When "Laundry Basket mode" is running, nanoe™ X light flashes and the Refresh(rotate) light is on.

Tub Hygiene (inhibit mold growth on tub)

→program: nanoe Tub Hygiene (P.25)

The tub after washing program is wet, where black mold is easy to grow. With nanoe Tub Hygiene program, nanoe™ X can effectively inhibit the growth of black mold.

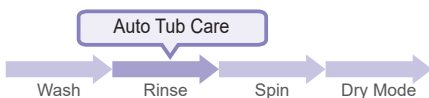


Instruction

What is nanoe™ X?
nanoe™ X are micro-particle ions wrapped in water which are produced by decomposing water molecules with high-voltage electricity. Invisible to the naked eye. It has the ability to inhibit the production of mold or peculiar smell. When nanoe™ X is produced, a trace amount of ozone is also produced. However, the ozone content is similar to that in natural forests, and will not affect the human body.

Auto Tub Care

Utilizing the high-speed rotating water during washing to prevent dirt from adhering to the tub.



(Please note)

The "Auto Tub Care" effect may be poor due to the type and degree of the dirt on the tub, so it is still necessary to use "Tub Clean" to clean regularly (P.42).

- You may choose not to perform Auto Tub Care. (P.44)

Instruction

- When Auto Tub Care is in action, the "Tub Clean" light will be flash.

Door lock

The door will be locked during operation

Start/Pause The "Door Locked" light will be up during operation, and the door cannot be opened.

- If **Start/Pause** is pressed during operation, tub rotation will stop, and the door will be unlocked with a click sound. The door will not open during tub rotation.



Attention

- Foam may spill out if you open the door during washing; please use a towel to catch it. (water droplets may also drip from the inside of the door)
- Please do not unplug the power plug. The lock cannot be released even if the power is turned off.
- When the door is locked in the following three situations, the door cannot be opened even if you press **On/Off** or **Start/Pause**.

Lock the Child Lock

In order to prevent children from accidents, the door is set so that it cannot be opened even after the operation ends or the power is turned off.

■Setting Method

- 1 **On/Off** Turn on the power
- 2 **Stain Master+** Press for more than 5 seconds

The setting is complete when [Child lock] is displayed after a double beep is heard.

■When released

- 1 **On/Off** Turn on the power
- 2 **Stain Master+** Press for more than 5 seconds

The setting is complete when [Child lock] is disappears after a double beep (x2) is heard.

Instruction

- When Child Lock is set, the **CL** light will be up for 2 seconds each time the power is turned on .

The door will be locked when the water temperature is high

When the tub is hot during operation, **Door lock** will light up, and the door cannot be opened even if the operation is suspended or the power is turned off.

<When you want to open the door immediately>

Start/Pause → **On/Off** turn off the power supply → **On/Off** turn on the power supply → start "Spin"
(it may start with water filling in order to lower the water temperature in the tub)

- The laundry is not over. Please restart the operation.

The door will be locked when the temperature in the drying tub is high

When the tub is hot during operation, **Door lock** will light up, and the door cannot be opened even if the operation is suspended or the power is turned off.

The door cannot be opened before the temperature drops.

<When you want to open the door immediately>

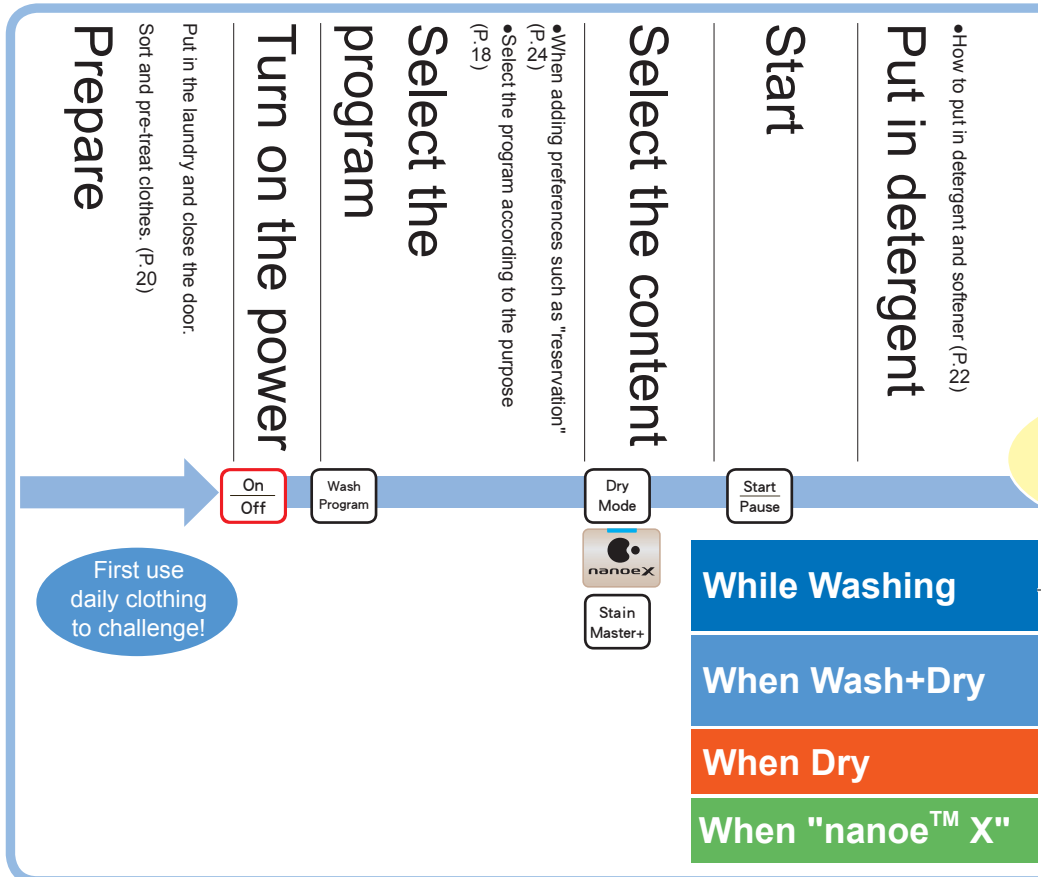
Start/Pause Pause operation → **On/Off** cut off the power supply → **On/Off** turn on the power supply → keep pressing **Water Level** for more than 3 seconds

- Start Gentle Dry (5~25 minutes) to drain and blow air to lower the temperature inside the machine.
- Once Gentle Dry is over, a beep will sound, and the lock will be released when you hear a "click" sound.

※The cooling time may vary with the temperature inside the tub.

Read before use

Laundry Procedure



Pay attention to the blackening and dyeing of clothes

The drum-type washing machine uses less water, so the concentration of dirt or dye will become thicker, and the clothes may become black or stained obviously.

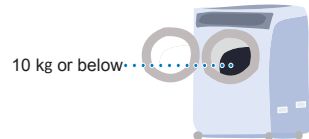


- Wash clothes that are easily faded and heavily soiled separately.
- It is easy to stain clothes when using the "40 °C Wash", "60 °C Hygiene", and "40 °C Super Soak" programs. Please check the treatment marking on the clothes. (P.20)
- Please put in an appropriate amount of detergent. (P.23)
- Do not put too much softener. Especially when used in combination with liquid detergent, there may be noticeable blackening. If this happens, please use powder detergent.

- When it becomes black or dyed → (P.46)

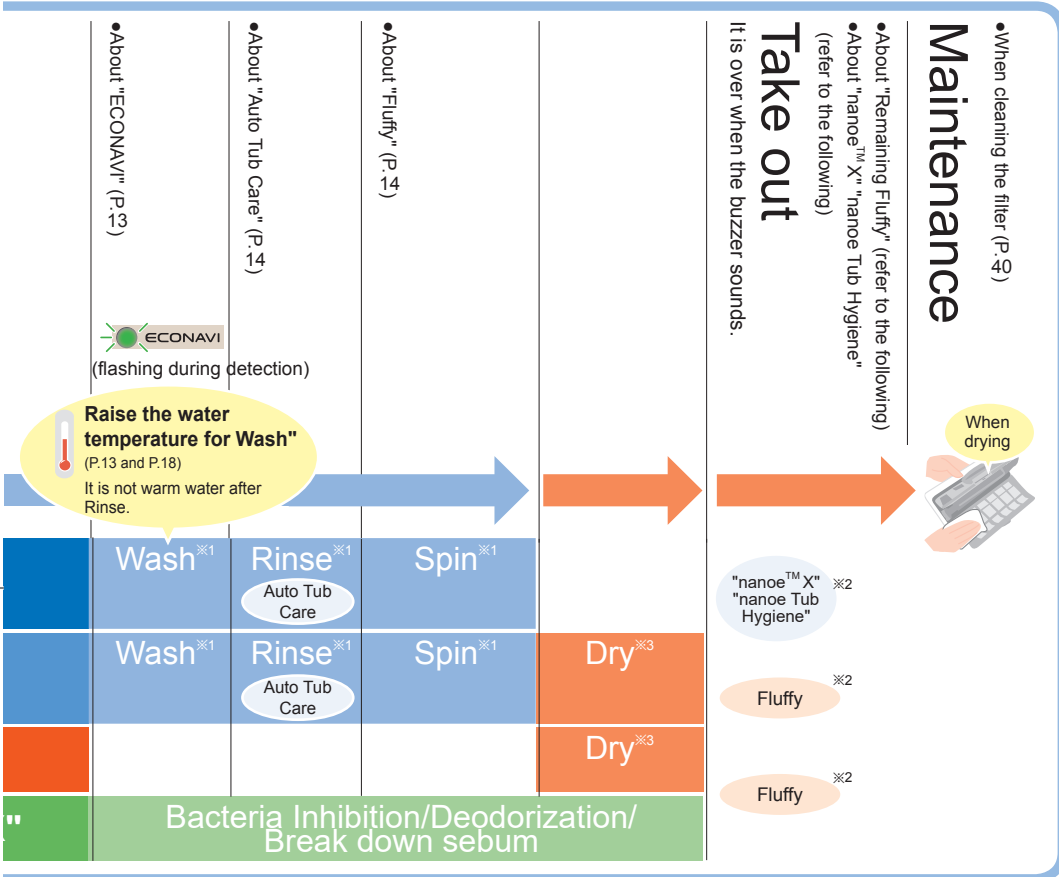
The key to dry clothes well

- Methods to reduce wrinkles after drying
 - Choose the drying mode that matches the clothes (P.19).
 - Reduce the amount of clothes for drying.



- Use the "Gentle Dry" program.
- Open the door halfway, take out the clothes in a semi-dry state, and hang them to dry.
- Dry after removing the wrinkles from drying.
- Easy-to-dry clothing such as chemical fibers must be taken out as soon as possible.


- ※1 Manual Setting (P.27)
- ※2 The default value is not set at the time of purchase.
- ※3 Do not touch the hot parts during or immediately after drying.
 - The inside of the door, the tub, the upper rear part of the body, the metal buttons of the clothes, etc.



Read before use

- Some clothes will shrink due to drying.
 - Depending on the material, some clothing will shrink even if it is only stained with water, or just washed or dried.(the original shape is restored by washing due to the tension during fabric processing)
 - Some clothes will shrink more severely due to drying and mechanical force.

When cotton or linen knitwear, close-fitting shirts, T shirts, POLO shirts or sweatshirts shrink → (P.46)




- Please keep the ventilation well.
 - ※ If the ventilation is not sufficient, depending on the temperature difference, there will be a little condensation or the drying time will be longer.

★ Filter maintenance

Before drying

- Please remove the cotton dust attached to the filter, the inside of the filter or the exhaust filter. (P.40)

If dirt is attached, the drying time will be prolonged or the clothes will not be dried sufficiently.



While washing

- After "40 °C" (Wash), "60 °C" (Hygiene) or "Super Soak", please wipe off the water on the filter and the inside of the filter(the attachment of water can cause mold).

Selecting the Program

<p>In order to prevent damage, holes, and malfunctions, please select the correct program according to the state of the laundry and dirt!</p>				Program			Operation content			Capacity limit		
							Wash	Wash ~ Dry	30 °C setting	Wash	Wash ~ Dry	30 °C setting (Suggest)
<p>• Please confirm the treatment marking of the clothes.</p>												
Daily clothes	Daily laundry	▶	Normal	(P.26)	●	●	●	18 kg	10 kg	6 kg		
	Break down sebum dirt before running the Normal program	▶	Normal+Pre care	(P.36)	●	●	●	3 kg	3 kg	3 kg		
	Quick wash	▶	Quick	(P.29)	●	—	●	8 kg	—	6 kg		
	Design your own program	▶	My Favorite	(P.29)	●	●	●	18 kg	10 kg	6 kg		
	Suppress the volume	▶	Silent Wash	(P.28)	●	●	●	18 kg	5 kg	6 kg		
	Wash the dirty laundry thoroughly	▶	Intensive ^{*1}	(P.28)	●	●	●	18 kg	10 kg	6 kg		
	Take a little more time to wash	▶	Eco Soak	(P.27)	●	●	●	8 kg	8 kg	6 kg		
	Laundry of yellowed clothes	▶	Super Soak ^{*2}	(P.31)	●	●	—	2 kg	2 kg	—		
	Wash that suppresses the odor of indoor drying	▶	40 °C (Wash) ^{*3}	(P.32)	●	●	—	4 kg (Suggest)	4 kg	—		
White underwear etc.		Sterilization wash (only for white clothes)	▶	60 °C (Hygiene) ^{*4}	(P.32)	●	●	—	2 kg (Suggest)	2 kg	—	
Fine clothing		Gentle washing	▶	Gentle Hand Wash ^{*5}	(P.33)	●	—	—	1.5 kg	—	—	
Bedding		Washing blankets or close fitting quilts	▶	Bedding	(P.31)	●	●	●	5 kg	4 kg	5 kg	
		Wash to remove dust mite feces or corpses	▶	Remove mites	(P.31)	●	●	●	3 kg	3 kg	3 kg	
Maintenance		Prevent/remove black mold in tub	▶	Tub Clean	(P.42)	●	—	●	—	—	—	
		Keep the tub dry	▶	Tub Dry	(P.42)	—	—	—	—	—	—	
Not water washable items/ underwears etc.		Bacteria Inhibition/ Break down sebum/ deodorization	▶	Pre care	(P.36)	"nanoe™ X"			3 kg			
Not water washable items		Deodorization	▶	Refresh (rotate) Refresh (static)	(P.36)				1 kg			

Preferences			Dry Mode			
Auto Tub Care	Reservation	Fluffy	Normal Dry	Gentle Dry	Extra Dry	Timed Dry
Wash/ Wash ~ Dry	Wash/ Wash ~ Dry	Wash	Wash ~ Dry			
●	●	●	●	●	●	●
●	●	●	●	●	●	●
—	●	—	—	—	—	—
●	●	●	●	●	●	●
—	●	●	●	—	●	—
●	●	●	●	—	●	—
—	●	●	●	—	●	—
—	●	●	●	—	●	—
—	●	—	●	—	—	—
—	●	—	●	—	—	—
—	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	—	—	—	—

Regarding the inhibition of black mold in the tub "nanoe™ X" "Hygiene" (P.14)

■ Dry mode

Normal Dry

Daily clothes that allow wrinkles



Gentle Dry

■ If the capacity is less than 3 kg...
Just set "Gentle Dry" to reduce wrinkles.

Extra Dry

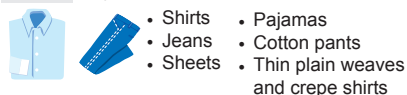
Thick clothes that do not dry easily



Timed Dry

Clothes that are easy to wrinkles

After drying, please take out the clothes immediately and hang them to dry. (wrinkles will occur if left untreated)



Semi-dry clothes that you want to dry during finishing



- * 1 Intensive program
Use high-concentration detergent twice the regular amount for laundry. After draining the laundry detergent that dissolves the dirt during washing, fill water into the tub again, and take a little more time to wash thoroughly to remove mud and sebum dirt.
- * 2 Super Soak program
Soak in warm water of about 40 °C with about twice the regular amount of detergent for about 6 hours before washing to remove dirt from clothes.
- * 3 40 °C (Wash) program
Use warm water of about 40 °C to remove sebum dirt that was not cleaned during washing of underwear.
- * 4 60 °C (Hygiene) program
Use warm water of about 60 °C to remove bacteria from clothes. (only for white clothes)
- * 5 High-end clothing marked with the icons of such as sweaters, linen shirts and suit pants.

Attention

- ① Do not wash or dry clothes that cannot be washed or are expensive to avoid deformation or damage.
- ② Some clothes are not suitable for warm water washing. For example, clothes with bright colors and easy to fade, or clothes that are easy to wrinkle.

Read before use

Laundry Check and Preparations

Items that cannot be washed or dried

✗ **Can not be washed or dried!**



Leather and fur products
(to avoid deformation)



Silk, rayon and artificial cotton products
(blended products)
(to avoid discoloration or deformation)



Seat cushions, back pads, pillows and other products made of cotton or sponge
(to avoid damage or malfunction)



Waterproof cover cloth or clothing
(to avoid damage or malfunction)



Clothing with the inner or bottom made of urethane or rubber, large or thick floor mats and carpet covers
(to avoid damage or malfunction)



Commercially available laundry aids, such as laundry nets with strong core materials.
(to avoid deformation, breakage, damage to clothes or malfunction due to heat)




Hats with strong core materials inside
(to avoid damage or malfunction)


And also...

- Other than items to be washed (paper diapers, etc.).
- Deformable items (jackets, ties, one-piece dresses, etc.).
- Items that have been wrinkle-processed or embossed.
- Items with woolen fabrics (velvet, etc.).

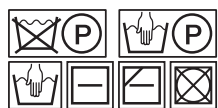
✗ **Can not be dried!**




Tights and stockings*
(to avoid damage or deformation)



Wool fabric*
(to avoid shrinkage or hair shedding)




Items marked with any of the above*
(to avoid damage)




Quilts and curtains
(to avoid damage or malfunction)


- For curtains, please follow the treatment marking.



Items with sticky treatment
(to avoid clogging of the filter)



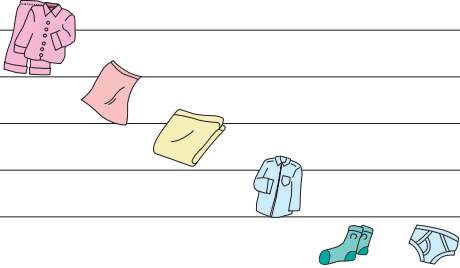
With embroidery, lace or new synthetic fiber (super ultra-fine fiber)
(to avoid deformation)



Carpets or items attached with pet hair
(to prevent the drying path from being blocked by threads and scraps and the ensuing damage or malfunction)

*Some clothes can only be dried in the "Gentle Dry" program (P.35).

Washing weight standard (the weight varies depending on factors such as the material)

600 g	● Jackets and coats	
500 g	● Sheets ● Pajamas (top and bottom)	
400 g	● Sweaters ● Skirts	
300 g	● Bath towels	
200 g	● Shirts ● Blouses	
50 g	● Socks ● Underwear	

Check the clothes!

So as not to damage the clothes, or cause malfunctions or drainage problems.



Turn over the clothes that are prone to fluffing.



Use a brush to remove pet hair, hair, grit, etc.



Remove metal pieces, coins, etc.



Button up or zipper up the clothing.



Tie up the clothing with rope.

Carry out pre-treatment if the dirt is serious!



Dirt on the collar and cuffs...

→ Apply a dedicated detergent on collars and cuffs before washing.
Please do not touch the washing machine, because the collar detergent is more corrosive than the laundry detergent. When spraying the collar essence, if exposed to the air, it will cause harm to the human body and damage to the plastic parts.



Mud...

→ Apply a special detergent for local dirt or a bath soap, and rub and wash before washing.



Stains...

→ Apply a dedicated stain detergent or oxygen-containing liquid bleach before washing (stains such as blood, black tea, juice, etc. can be washed with clean water before laundry washing).



Stubborn sebum dirt...

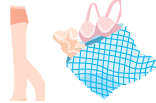
(clothes that directly touch the skin)

→ Pre-treatment with nanoe™ X "Pre care" (after decomposing, the dirt will be easier to fall off during the washing process)

Read before use

Delicate underwear and accessories should be put into a laundry net!

- Underwear (please put underwire with steel rings in the "underwear laundry net" available on the market)
- Accessories (socks or handkerchiefs, etc.) or stockings
- Lace clothing or undershirt



(zippers, buttons and other metal parts must be put in the bag in advance)

Attention

- Do not use a laundry net when it is dry (to avoid poor drying or clogging with cotton chips).

Newly bought items with bright colors

Separately wash items that are easy to fade!

The faded dye may transfer to white objects to cause blackening.

■ Confirmation of color fading

Use a white cloth soaked in neutral liquid detergent to rub the areas that are not obvious.
→ If the color fades, please wash separately.



In "40 °C" (Wash), "60 °C" (Hygiene) and "Super Soak" programs

Because it is easy to cause color fading, please check the treatment marking of the clothes.

- When washing clothes with a upper limit of water temperature, do not exceed the temperature limit. Example) 40 °C water temperature marking

Items that cannot be washed in the "60 °C" (Hygiene) program



- Shirts and other items with lining
- Stretchable items with rubber materials
- Items with printed patterns

Items that cannot be washed with the "40 °C" (Wash), "60 °C" (Hygiene), and "Super Soak" programs

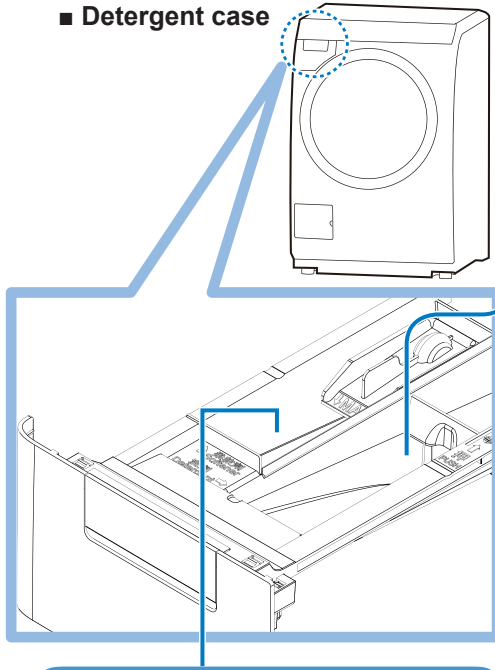


- Items with bright colors and easy to fade

- In the "60 °C" (Hygiene) program, please wash only white clothes.

How to put in Detergent and Softener

■ Detergent case



Powder (Synthetic Detergent/ Bleach)

To prevent powder residue

- Please wipe it dry if it gets wet.
- For the insoluble detergent, please dissolve it with water before putting it in.
- Please crush the agglomerated part before putting it in.



Liquid Synthetic Detergent/ Bleach/ Soap

- Chlorine-containing bleach cannot be used on colored clothes (so as not to fade).
- Because liquid soap is easy to solidify, please dissolve it in 500 ml warm water at about 30 °C before putting it in.

Do not pour into the detergent case.

(please follows the contents on the container for application)



- Gel ball type detergent (laundry ball)
- Laundry fragrance particles (laundry ball) etc.



(to avoid water leakage or malfunction due to insolubility in water and blockage)

Softener

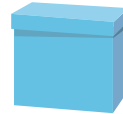
- If the detergent does not flow easily, please have it fully dissolved in water before putting it in (up to about 70 ml).
- The liquid level should not exceed the position marked with "MAX".
- Do not close the box too hard (or the softener will come out immediately and lose its effect).
- Because of its siphon structure, a very small amount of liquid will remain, which is not abnormal.
- Do not use softener that will cause separation or solidification (to prevent softener or water from remaining in the detergent case).



The following items cannot be used



- Powder soap
 - Soda powder
- (to avoid water leakage or malfunction due to insolubility in water and blockage)



- When powder detergent is difficult to dissolve
 - Please dissolve it in warm water (about 30 °C) and put it directly into the tub.



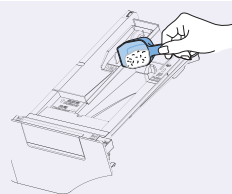
To dissolve completely, add it little by little while stirring.

- When making an appointment
 - Do not use chlorine bleach.(so as not to cause metal corrosion or malfunction)
 - Do not use liquid soap.(so as not to block and cause water leakage)
 - When using bleach, do not use powder and liquid together. (so as not to solidify) (Example) Powder detergent and liquid bleach, or liquid detergent and powder bleach

When to put in detergent

1 Put clothes in, close the door and press **Start/Pause** to start washing.

2 Put in the detergent by the mark.



Attention

- Please put in detergent, bleach or softener before filling water in (there may be residues if water is filled in first)
- If water is being filled in while the detergent is being put in, wait **Start/Pause** until the detergent is completely put in and then restart.
- **When the machine body (especially the door and the operation panel) is stained with detergent or softener, it should be wiped clean with a wrung out towel immediately (to prevent the printed font from peeling off, resin damage, metal corrosion or abnormal movement); especially concentrated liquid detergent may cause the resin part to crack. Please pay attention.**
- For "Gentle Hand Wash" and "Bedding" programs, the liquid detergent is recommended.
- Reduce the amount of detergent which produces more foam.
- Please adjust the amount of detergent according to the amount of laundry and the state of dirt.

Read before use

Use Standard detergent

Water Level	Water indicator	Standard detergent	
		Powder	Liquid
High	42 ▶	approx. 27 g	approx. 22 ml
Middle	35 ▶	approx. 24 g	approx. 20 ml
Low	27 ▶	approx. 18 g	approx. 15 ml

■ For [Intensive] and [Super Soak] programs

High	42 ▶	approx. 45 g	approx. 33 ml
Middle	35 ▶	approx. 40 g	approx. 30 ml
Low	27 ▶	approx. 30 g	approx. 23 ml

Wash/Wash+Dry

Prepare

- Turn on the faucet.
- Put the laundry into the tub and close the door.

Wash+Dry

- Capacity 10 kg or below

Normal Wash

- 18 kg or below

StainMaster+

- 6 kg or below (Suggest)

Attention

- Do not put too much clothing (to avoid damaging the clothing or the machine body).
- When drying clothes, comply with the capacity standard (about 10 kg) (to avoid wrinkles or uneven drying).
- When closing the door, make sure that there are no clothes caught (to avoid water leakage, machine failure or tearing of clothes).
- Please keep adequate ventilation.

Operation

1 **Turn on the power**



- When the power is turned on, the machine will be set at "Normal" of "Wash Program".

2 **Select a Program (P.18)**



- The program will change after each click.



عادي Normal	إزالة البقع Remove mites	تنظيف الجوف Tub Dry
نقو اقتصادي Eco Soak	الفرش Bedding	تعميم الجوف nanoe Tub Hygiene
المفضلة My Favorite	سريع Quick	رعاية أولية Pre care
كثيف Intensive	غسيل يدوي ناعم Gentle Hand Wash	إعاش (ثابت) Refresh (static)
غسل صامت Silent Wash	تنظيف الجوف Tub Clean	إعاش (تدوير) Refresh (rotate)

- The selected program will light up.
 - Select the wash mode
- Normal → Normal + Pre care → Normal + Eco Soak → My Favorite → Intensive → Silent Wash → Remove mites → Bedding → Quick → Gentle Hand Wash → Tub Clean → Tub Dry → Normal

3 **StainMaster+**



- The 30 °C light is on.
- Used when the water temperature is low in winter.
- Do not press it if you don't need to adjust the water temperature.

4 **Choose the dry mode**



- The "Wash+Dry" light is on.
- Do not press it if you don't need to dry clothes.
- When only "Dry" is selected→(P.34)
- Only in the "Wash" program, if you choose nanoe™ X "nanoe Tub Hygiene", the machine will automatically enter nanoe Tub Hygiene after taking out the clothes and closing the door.

You can select your preferred settings.



Change the amount of water
From the start to the end of "Wash", the action can be paused and then changed.



You can adjust your preferred washing time/ times of rinse/spin time (cannot be adjusted for some programs).



Note: When drying clothes, the spin time can only be more than 3 minutes.



Set an appointment

Note: The program cannot be changed after the Preset button is pressed.

5 **Start**



Detect the amount of laundry.
(the tub will rotate for about 15 seconds)

The amount of water is displayed for about 20 seconds.

- After starting, the door lock will be automatically locked. (P.15)

When "Wash+Dry"



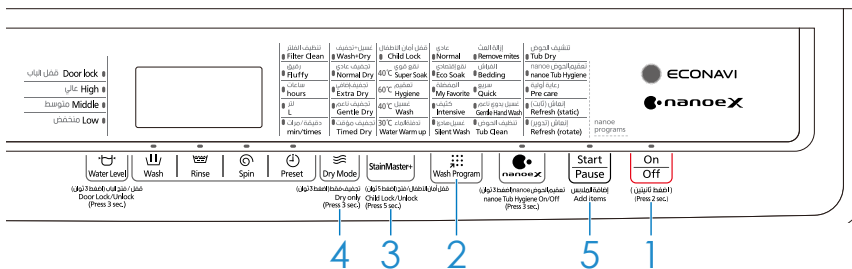
Choose the mode of drying (P.35)



Normal → Extra Dry → Gentle Dry → 10 (minutes) → 30 (minutes) → 1:00 (hour) → 1:30 (hours) → 2:00 (hours) → 2:30 (hours) → light off → Normal

When setting the timing, select the time

- After a long period of drying, there will be condensation when the detergent case is opened. There will be water splashing residue around the detergent case. This is normal and please use it with peace of mind.



6 Follow the marking Put in the detergent (P.22)

The remaining time is displayed, and water injection will start after about 35 seconds.

When the buzzer sounds, it means the wash or dry ends

After the operation is over...

After the laundry is finished, take out the clothes and close the door...automatically run the nanoe™ X "nanoe Tub Hygiene" operation (about 1 hour).

nanoe™ Tub Hygiene Lights up: nanoe™ X "nanoe Tub Hygiene" has been set.

- ① Do not cut off the power and open the door to take out the clothes.
- ② Close the door
→ nanoe™ X
The "nanoe Tub Hygiene" operation starts
- ③ Turn off the faucet



Can suppress black mold in the tub after washing. **nanoe™ X "nanoe Tub Hygiene" (P.14)**

The tub is prone to black mold growth after the laundry is finished. At this time, using nanoe™ X can effectively inhibit the growth of black mold.(hereinafter referred to as "nanoe Tub Hygiene")

Instruction

- There is no "nanoe Tub Hygiene" operation set when the machine is purchased. If it is needed, please press and hold the button for 3 seconds.(the nanoe Tub Hygiene light is on)
- "nanoe Tub Hygiene" cannot be set if the process includes drying ("Wash+Dry", "Dry Mode", "Tub Clean" or "Tub Dry").
- If "nanoe Tub Hygiene" is set, after the wash is finished, the power will not be cut off before the clothes are taken out, and "nanoe Tub Hygiene" is in the standby state. (the power will be cut off automatically if the clothes are not taken out after 2 hours)
- When "nanoe Tub Hygiene" is running, the tub is in a static state but the fan and nanoe™ X will rotate. The power supply will be cut off automatically after the operation is over.
- It is not possible to perform "nanoe Tub Hygiene" only.
- Terminate "nanoe Tub Hygiene": Press the button for more than 3 seconds to release (the nanoe Tub Hygiene light is off).
- "nanoe Tub Hygiene" cannot be set when Child Lock is set.

After starting, if you want to change the Wash Rinse Spin setting

You can press to pause the machine and then make the change (the setting can be changed from start to the end of wash)

After drying or washing...automatically perform "Fluffy" operation. (P.14)

Fluffy

Lights up: "Fluffy" is set.
Flashing: "Fluffy" is running.

- The clothes can also be taken out in the middle of the "Fluffy" operation.(the operation will stop once the door is opened)

- ① Open the door and take out the clothes.
- ② Turn off the faucet.

Prevents wrinkles caused by the placement of clothes after the end of drying.

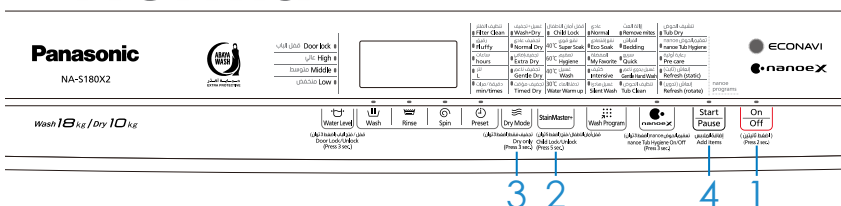
"Fluffy"

Instruction

- "Fluffy" will not be performed after "Gentle Dry".
- Setting of "Fluffy" after drying → (P.44)

Normal/StainMaster+ ● Normal

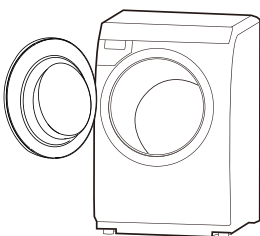
For washing ordinary clothes



※In the case of Wash+Dry
 ※If you don't need to dry the clothes, do not press the "Dry Mode" button.

■Preparation

- ① Prepare the laundry for washing (P.20)
 - Clothing classification ● Pretreatment
- ② Turn on the faucet.
- ③ Put the laundry into the tub and close the door.



※If you put in too much laundry, it may not dry or the drying time will be longer.

■If "Wash+Dry" or "Dry" is selected, the display when there are too many clothes (the capacity is exceeded).

The value displayed will flash when the amount of water is displayed.

- Please refer to P.19 to select an appropriate drying schedule.
- After the drying process is over, perform the "Fluffy" program (for about 2 hours, and the "Fluffy" light will flash).
 - ※Because the drying process is over, please take out the clothes as soon as possible.
 - To cancel "Fluffy" after drying the clothes (P.44)

- | Wash+Dry | Wash |
|----------------------------|---|
| ● Capacity: 10 kg or below | ● Normal: 18 kg or below
● Warm water: 6 kg or below (Suggest) |

1 Put in the clothes, close the door and press the power button.

● Do not put the clothes over the top of the inlet when washing, otherwise it is easy to cause damage to the product.
 The "Normal" light is on.

2 If you want to choose 30 °C for warm water washing,

Press **StainMaster+** until the "30 °C" light is on.

(Suitable for low water temperature in winter)

3 Press the **Dry Mode** button (Wash+Dry)

● Select "Normal Dry", "Extra Dry", "Gentle Dry" or "Timed Dry" to light it up.

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

5 Put the detergent that meets the amount of water displayed into the detergent case (P.23)

↓
 The program ends when the buzzer sounds.



In the no-water state, the tub rotates for about 15 seconds to detect the amount of laundry.



The amount of water will be displayed for about 20 seconds. (the water level will also be displayed)



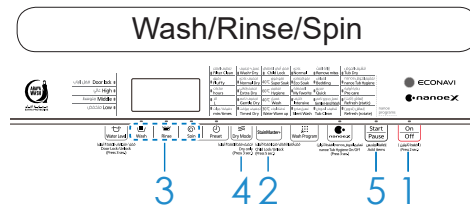
Water injection starts after the remaining time appears.

Remaining time (about) minutes

Instruction

- If nanoe™ X "nanoe Tub Hygiene" is elected, it will automatically enter nanoe Tub Hygiene after taking out the clothes and closing the door. (P.25)

Manual Setting



Wash+Dry	Wash
<ul style="list-style-type: none"> Capacity: 10 kg or below 	<ul style="list-style-type: none"> Normal: 18 kg or below Warm water: 6 kg or below (Suggest)

- Preparation**
- Prepare the laundry for washing (P.20)
 - Clothing classification
 - Pretreatment
 - Turn on the faucet.
 - Put the laundry into the tub and close the door.

- Turn on the power and the **Normal** light is on.
- If you want to choose 30 °C for warm water washing, press **Stain Master** until the "30 °C" light is on.
(※Suitable for low water temperature in winter)
- Select according to your purpose

Press the content you want to execute to light it up.	
■ To reuse the water in the tub	→ Wash (wash water residue)
■ Reuse the rinse water	→ Wash Rinse (rinse water residue)
■ Rinse the washed clothes	→ Rinse (rinse water residue)
■ Rinse the washed laundry and spin	→ Rinse Spin (rinse water residue)
■ Spin the washed laundry	→ Spin (Drain the water in the tub (warm water))
- Press the **Dry Mode** button (Wash+Dry)

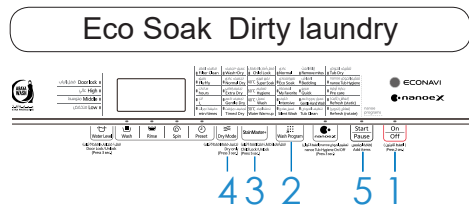
 - Select "Normal Dry", "Extra Dry", "Gentle Dry" or "Timed Dry" to light it up.

※Note: When drying clothes, the drying time is at least 3 minutes.
- Start
- Put in the detergent (P.23)

The program ends when the buzzer sound; take out the laundry.

- Instruction**
- "Spin" will start from draining, so the displayed spin time and remaining time will be different.
 - In "Rinse" and "Spin", it will start to drain when there is water in the tub. When there is no water, it will start with "Spin".

Eco Soak



Wash+Dry	Wash
<ul style="list-style-type: none"> Capacity: 8 kg or below 	<ul style="list-style-type: none"> Normal: 8 kg or below Warm water: 6 kg or below (Suggest)

- Preparation**
- Prepare the laundry for washing (P.20)
 - Clothing classification
 - Pretreatment
 - Turn on the faucet.
 - Put the laundry into the tub and close the door.

- Turn on the power
- Use **Wash Program** button to select the **Eco Soak** program.

The "Normal" and "Eco Soak" lights are on.
- If you want to choose 30 °C for warm water washing, press **Stain Master** until the "30 °C" light is on.
(※Suitable for low water temperature in winter)
- Press the **Dry Mode** button (Wash+Dry)

 - Select "Normal Dry", "Extra Dry", "Gentle Dry" or "Timed Dry" to light it up.
- Start
- Put in the detergent (P.23)

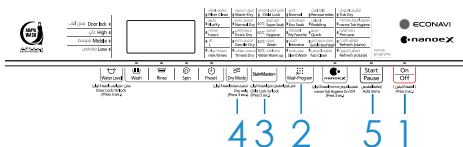
The program ends when the buzzer sound; take out the laundry.

- Instruction**
- The soaking time is about 30 minutes.
 - After soaking, it will automatically enter "Normal".

How to use

● Intensive

Washing dirty laundry - Wash/Rinse/Spin Intensive



Wash+Dry	Wash
●Capacity: 10 kg or below	●Normal: 18 kg or below ●Warm water: 6 kg or below (Suggest)

■Preparation

- ①Prepare the laundry for washing (P.20)
 - Clothing classification ●Pretreatment
- ②Turn on the faucet.
- ③Put the laundry into the tub and close the door.

1 Turn on the power

2 Use button to select the program.

The "Intensive" light is on.

3 If you want to choose 30 °C for warm water washing, press until the "30 °C" light is on.

(※Suitable for low water temperature in winter)

4 Press the button (Wash+Dry) ●Select "Normal" and "Intensive" to light it up.

5 Start

6 Put in the detergent (P.23)

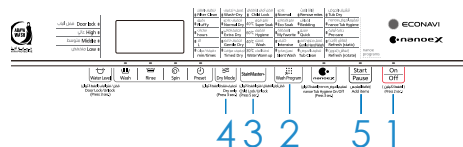
 The program ends when the buzzer sound; take out the laundry.

Instruction

- Wash laundry with a high-concentration detergent that is twice that of the normal detergent, and take a little more time to clean it to remove dirt.
- After the dirty water is drained in the washing process, fill in water again.

● Silent Wash

"Silent Wash" program



Wash+Dry	Wash
●Capacity: 5 kg or below	●Normal: 18 kg or below ●Warm water: 6 kg or below (Suggest)

■Preparation

- ①Prepare the laundry for washing (P.20)
 - Clothing classification ●Pretreatment
- ②Turn on the faucet.
- ③Put the laundry into the tub and close the door.

1 Turn on the power

2 Use button to select the program.

The "Silent Wash" light is on.

3 If you want to choose 30 °C for warm water washing, press until the "30 °C" light is on.

(※Suitable for low water temperature in winter)

4 Press the button (Wash+Dry) ●Press "Normal Dry" and "Extra Dry" to light it up.

5 Start

6 Put in the detergent (P.23)

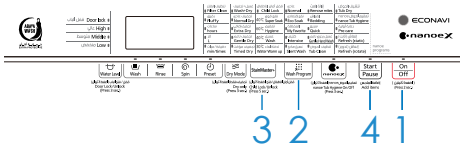
 The program ends when the buzzer sound; take out the laundry.

Instruction

- Spin at a lower speed than the "Normal" program to wash clothes more quietly.

● Quick

Wash lightly dirty clothes quickly



Wash

- Capacity: 8 kg or below
- Warm water: 6 kg or below (Suggest)

■Preparation

- ①Prepare the laundry for washing (P.20)
 - Clothing classification ●Pretreatment
- ②Turn on the faucet.
- ③Put the laundry into the tub and close the door.

1 Turn on the power

2 Use button to select the **Quick** program.

The "Quick" light is on.

3 If you want to choose 30 °C for warm water washing, press until the "30 °C" light is on.
(※Suitable for low water temperature in winter)

4 **Start**

5 Put in the detergent (P.23)

The program ends when the buzzer sound; take out the laundry.

Quick Program

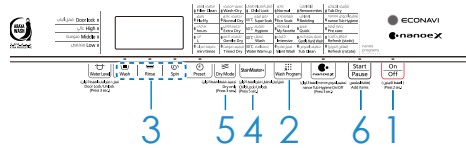
Put in less detergent if it's not too dirty.

Instruction

- The number of rinse for "Quick" can be adjusted once or twice.(P.44)
- "Fluffy", "Tub Clean" and "Dry mode" cannot be used.

● My favorite

Design the washing method you like



Wash+Dry

- Capacity: 10 kg or below

Wash

- Normal: 18 kg or below
- Warm water: 6 kg or below (Suggest)

■Preparation

- ①Prepare the laundry for washing (P.20)
 - Clothing classification ●Pretreatment
- ②Turn on the faucet.
- ③Put the laundry into the tub and close the door.

1 Turn on the power

2 Use button to select the **My Favorite** program.

The "My favorite" light is on.

3 Press to select the combination.

4 If you want to choose 30 °C for warm water washing, press until the "30 °C" light is on.
(※Suitable for low water temperature in winter)

5 Press button (**Wash+Dry**)

- Select "Normal Dry", "Extra Dry", "Gentle Dry" or "Timed Dry" to light it up.
- (※The drying program cannot be remembered)

6 Press to start.

7 Put in the detergent (P.23)

The program ends when the buzzer sound; take out the laundry.

Instruction

- The selected itinerary combination will be memorized so that the user can directly select this combination next time.

Wash large blankets or sheets

○ Blankets and sheets that can be washed

"Bedding" program: Can wash blankets or quilts.

"Remove mites" program: Can wash blankets or cloth covers made of blankets.





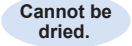
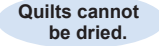
Use pre-drying before washing to peel off dust mites and rinse off allergens (dust mite feces or dead bodies).

Items that can be washed, items that can be dried



With any of the marking Blankets (Meyer blankets and woven blankets) and quilts (100% chemical fiber)

- Please do not wash clothes without treatment markings, waterproof sheets or duvet covers.

Bedding program		Remove mites program	
Clothes only suitable for Wash		Clothes only for Wash+Dry	
Blankets	Quilts	Blankets	Blankets
 <ul style="list-style-type: none"> • 3 kg or below. • 100% chemical fiber, 100% cotton. 	 <ul style="list-style-type: none"> • About 5 kg or below. • 100% chemical fiber, 100% cotton. 	 <ul style="list-style-type: none"> • Cotton blankets cannot be dried. (to avoid shrinking) • 4 kg or below. • 100% chemical fiber • Can still be dried even if there is the marking of "No Drying". 	 <ul style="list-style-type: none"> • 3 kg or below. • 100% chemical fiber
	 <p>Cannot be dried.</p>	 <p>Quilts cannot be dried.</p>	

✗ Blankets and quilts that cannot be washed.

- Blankets with wool over 10 mm (plush). (otherwise hair inversion or curling will occur)
- 100% wool blankets.
- 2 or more blankets.
- Duvet.
- More than 2 sheets.

Attention

- Please never use "blanket laundry net or bag".
- Please do not wash electric blankets (including covers).

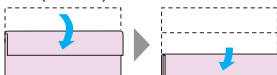
How to put in blankets or quilts

1 Fold the blanket or quilt.

- Large item (4 folds)

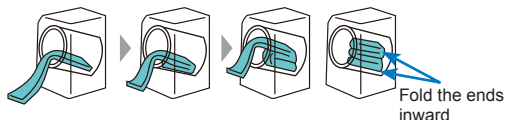


- Quilt (3 folds)

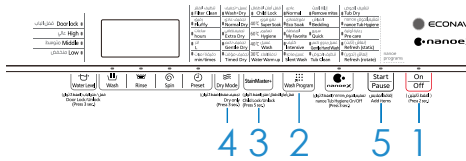


2 Put in the blanket or quilt.

Put in the tub with the screen folding method (6 folds)



Bedding and StainMaster+ Remove mites • Super Soak



Wash+Dry

- Capacity: 4 kg or below

Attention

- Do not wash clothes, waterproof cover cloths or outer covers which do not have treatment markings.
- Wash, spin and dry capacity of Remove mites: 3 kg or below

Preparation

- ①Prepare the laundry for washing (P.20)
 - Clothing classification
 - Pretreatment
- ②Turn on the faucet.
- ③Put the laundry into the tub and close the door.

1 Turn on the power

2 Use the button to select **Bedding** or program.
The "Bedding" or "Remove mites" light is on.

3 If you want to choose 30 °C for warm water washing, press until the "30 °C" light is on.
(Suitable for low water temperature in winter)

4 Press the button (Wash+Dry)
• The "Normal Dry" light is on.

5 **Start**
The program ends when the buzzer sounds; take out the laundry immediately.

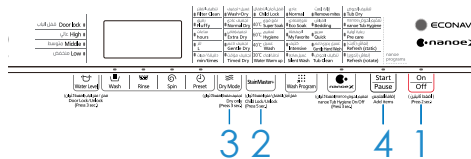
6 **Put in the liquid detergent.**
※It is recommended to use liquid detergent.
● Liquid detergent: about 35 ~ 40 ml.
● Softener for about 15 ml (the type which needs 30 L of water for 7 ml of it)

▼
The program ends when the buzzer sounds; take out the laundry immediately.

Instruction

- "Fluffy" and "Tub Clean" cannot be used.
- For the Wash+Dry of "Bedding", only "Normal Dry" can be selected.
- The water volume cannot be changed to "Middle" or "Low".

Washing water temperature about 40 °C



Wash+Dry

- Capacity: 2 kg or below

Wash ~ Spin

- Capacity: 2 kg or below

Preparation

- ①Prepare the laundry for washing (P.20)
 - Clothing classification
 - Pretreatment
- ②Turn on the faucet.
- ③Put the laundry into the tub and close the door.

1 Turn on the power

2 Press the button for the **Super Soak** program.
The "Super Soak" light is on.

3 Press the button (Wash+Dry)
• Select "Normal Dry" or "Extra Dry" to light it up.

4 **Start**

5 **Put in the detergent (P.23)**

▼
The program ends when the buzzer sound; take out the laundry.

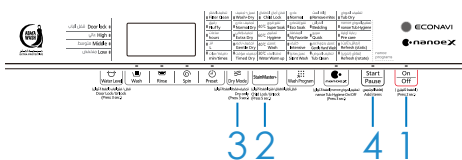
Attention

- Super Soak uses high-concentration detergent and soaks the laundry in warm water at about 40 °C, and keeps it warm for about 6 hours. Wash the fiber dirt thoroughly.
- The effect will be different due to different types of laundry dirt and detergent.
- The yellow dirt discolored by sunlight cannot be removed.
- Please do not exceed the laundry temperature regulations for clothes with a upper water temperature.
- Wash colored and white clothes separately.
- "Auto Tub Care" cannot be used.

How to use

StainMaster+ ● 40 °C (Wash)

Washing water temperature about 40 °C



Wash+Dry

- Capacity: 4 kg or below

Wash

- Capacity: 4 kg or below (Suggest)

- Preparation
- ①Prepare the laundry for washing (P.20)
 - Clothing classification ●Pretreatment
 - ②Turn on the faucet.
 - ③Put the laundry into the tub and close the door.

1 On
Off Turn on the power

2 Press the Stain
Master+ button to select the 40°C
Wash program.
The "40 °C" (Wash) light is on.

3 Press the Dry
Mode button (Wash+Dry)
• Select "Normal Dry" or "Extra Dry" to light it up.

4 Start
Pause Start

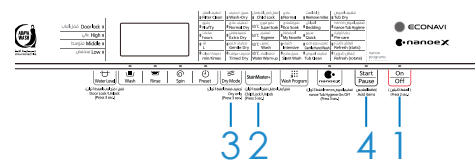
5 Put in the detergent (P.23)
The program ends when the buzzer sound;
take out the laundry.

Attention

- Because the type and intensity of taste are different, the deodorizing effect will be different.
- Do not use chlorine-based bleach for the "Preset" program. (so as not to cause metal corrosion or failure due to long-term storage)
- Wash colored and white clothes separately.
- "Auto Tub Care" cannot be used.

StainMaster+ ● 60 °C (Hygiene)

Washing water temperature about 60 °C



Wash+Dry

- Capacity: 2 kg or below

Wash

- Capacity: 2 kg or below (Suggest)

- Preparation
- ①Prepare the laundry for washing (P.20)
 - Clothing classification ●Pretreatment
 - ②Turn on the faucet.
 - ③Put the laundry into the tub and close the door.

1 On
Off Turn on the power

2 Press the Stain
Master+ button to select the 60°C
Hygiene program.
The "60 °C" (Hygiene) light is on.

3 Press the Dry
Mode button (Wash+Dry)
• Select "Normal Dry" or "Extra Dry" to light it up.

4 Start
Pause Start

5 Put in the detergent (P.23)
The program ends when the buzzer sound;
take out the laundry.

Attention

- Please wash only white clothes.
(please do not use this program for clothes that are not resistant to high temperatures)
"Auto Tub Care" cannot be used.

Wash gentle hand wash clothes

Rotate the tub slowly to wash delicate clothes or beautiful clothes with mild water (maximum capacity 1.5 kg or below).

Washable Items

Pretty clothes marked with  or .

○ Items that can be washed



Cashmere sweaters, summer knitwear, etc.



Casual pants etc.



Blouses etc.

× Items that cannot be washed

- Some clothes cannot be washed even if they have the markings above. →(P.20)

Attention

- Do not wash clothes that do not have treatment markings, clothes with unknown materials and clothes that will fade.
- For sebum dirt, dust, and mud on collars and cuffs, first apply on them a detergent that does not contain fluorescent agent, and then use a soft brush to remove the dirt.
- The clothes in the following situations need to be pre-treated.



Fix hem wrinkles with thread



Wrap darker buttons in plastic wrap

- When washing only 1 sweater and 1 piece of other clothes, you can wash 1 or 2 more bath towels together (to balance the spin).

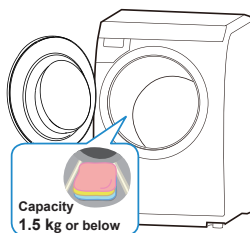
■ Detergents that can be used



- Among commercially available detergents, please choose cold washing essence (for washing sweaters and high-end clothes without fluorescent).
- Do not use detergents other than the above, because other detergents may not completely dissolve or have an adverse effect on the fiber.
- Depending on the type of detergent, some may have too much foam and cannot clean thoroughly.

How to put in the clothes

Put the clothes flatly on top of each other.



(weight standard)



Sweater about 400 g

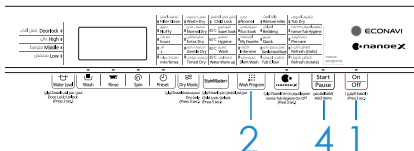


Blouses about 200 g



Casual pants about 400 g

"Gentle Hand Wash" program



■ Preparation

- Prepare the laundry for washing (P.20)
 - Clothing classification
 - Pretreatment
- Turn on the faucet.
- Put the laundry into the tub and close the door.

1



Turn on the power

2



Select "Gentle Hand Wash"

3

Put neutral liquid detergent (cold washing essence) into the detergent case

- Neutral liquid detergent: 15 ml (the type which needs 30 L of water for 40 ml of it)
- Softener for about 10 ml (the type which needs 30 L of water for 7 ml of it)



Instruction

Liquid detergents are recommended using in "Gentle Hand Wash" program.

4



Start



- When the sweater floats up, first "Pause" and open the door and gently press the inside, then restart.

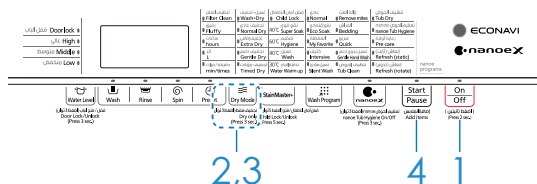
The operation is over when the buzzer sounds; immediately take out the clothes (wrinkles or stains will occur if left untreated).

Instruction

- When shrinking accidentally → (P.46)
- Cannot use "StainMaster+", "Fluffy", "Tub Clean", "Preset" and "Dry Mode".
- Do not use bleach.
- Please use tap water below 30 °C.

Dry Mode

Dry operation only.



■ Preparation

- ① Prepare the laundry for washing (P.20)
- ② Put the laundry into the tub and close the door.
- ③ Please keep the ventilation well.

1

On/Off Turn on the power

Attention

- Daily clothes can be put in after becoming fluffy after Spin.
- If the clothes exceed the upper limit of the capacity or too many clothes are put in, the program will run but the clothes will not be able to dry sufficiently. (there will be cases of prolonged drying time, uneven drying, wrinkles, etc.)

2

Dry Mode Select "Dry Mode" (press for 3 seconds).

- Select the drying mode that matches the clothes → (P.19)
- Clothes that cannot be dried → (P.20)
- Key points for a good drying effect → (P.16)

3

Dry Mode Choose "Dry Mode"



- For each press, it will switch to the next one as follows.

Normal Dry → Extra Dry → Gentle Dry
 → 10 minutes → 30 minutes → 1:00 (hour)
 → 1:30 (hours) → 2:00 (hours) →
 2:30 (hours) → Light off → Normal Dry

→ When setting the timing, select the time

- For a small amount of clothing (1 kg or below) or semi-dry clothing, it is recommended to use the Timed Dry function. (using a method other than timing to dry clothes will make the running time longer)
- For clothes that are not easy to dry, it is best to dry the clothes after "Spin" (15 minutes).

4

Start/Pause Start

The program ends when the buzzer sound; take out the laundry.

Instruction

- "Fluffy" will not be performed after "Gentle Dry".
- If the ventilation is not sufficient, depending on the temperature difference, a little condensation may appear on windows or trough walls, or the drying time will be longer.
- Cannot use "Preset", "Auto Tub Care" and nanoe™ X "nanoe Tub Hygiene".

Dry Mode

■Daily clothes...

Please confirm whether the clothes can be dried. (P.20)

■Daily clothes...

"Normal Dry" "Extra Dry"

Clothes that allow wrinkles

Drying capacity: 10 kg or below (P.19)

※Drying capacity of Silent Wash: 5 kg or below

"Timed Dry"

Finishing and drying of semi-dry blankets

(please confirm the size and material before drying)

Drying capacity: 1 kg or below

100% chemical fiber...

- Meyer blankets
- Woven blankets
- Taft blankets

■How to put in the blanket→(P.30)



Clothes that are prone to wrinkles when dried or when a small amount of clothes (3 kg or below)



(1)When a small amount of clothes (1 kg or below), please select "Timed Dry", and the time should be set to 1:30 or 2:00 .

(2)When selecting "Timed Dry" for 1~3 kg clothes, please set the time to 2:00 or 2:30 .

(3)When drying clothes of 3 kg or above, please do not select "Timed Dry".

"Gentle Dry"

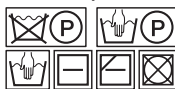
Delicate clothes, beautiful clothes, casual pants after hand washing, etc.

(let the tub rotate slowly and dry gently)

■Check clothes

Please confirm whether the clothes can be dried. (P.20)

- Some clothes can still be dried with "Gentle Dry" even if they have the following markings.



- Have been washed with "Gentle Hand Wash"...



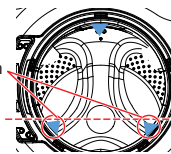
Sweaters, summer knitwear, etc.

■How to put clothes in

1 Smooth out the protrusion in the tub.

Protrusion

Flatten them.



2 Put in the items to be dried.

Drying capacity: 3 kg or below

- Try to reduce the stacking, spread out the clothes, and stretch the wrinkles before putting them in (so as not to cause uneven drying due to stacking).



- When the drying is uneven, it can be turned over and run again.
- Confirm the drying state during operation, and take the clothes out if they are dry (so as not to damage the texture or decoration due to excessive drying)
- When folding wrinkles appear, they can be ironed out with an iron with sufficient steam.
- Sweaters and other clothes that are not easy to dry can be dried after "Spin".

Use nanoe™ X

Pre care

Refresh (Rotate) / Refresh (Static)

Carry out Bacteria Inhibition, Deodorization, and Break down sebum before wash.

- Can be used for dry clothes. Not a washing or drying program.

Pre care

Capacity: 3 kg or below

Time required: about 2 hours

- The tub will rotate.

Bacteria Inhibition

Inhibits bacteria even on not water washable items.

Deodorization

Removes odors such as cigarette smell attached on clothes.

Break Down Sebum (wash after "Pre care" required)

Breaks down stubborn sebum by nanoe™ X, to make it easier to wash away by wash program.

"Pre care" modes include...

- "Normal" + "Pre care" means automatic start of Normal after Pre care.
- For other programs, please re-select after Pre care and start again.

Refresh (Rotate) / Refresh (Static)

Capacity: 1 kg or below
Time required: about 35 minutes.

Clothes before going out or after returning home, when seasons change, etc...

It can remove odors such as cigarette smell attached on clothes.

Attention

- To use this program after drying, the running time may be extended by 5-20 minutes in order to lower the temperature in the tub.

About odors...

- Cannot remove the peculiar smell of sweat or sebum.(because the dirt cannot be removed)
 - Depending on the type and intensity of the odor and the type of clothing, there may be residual odors.
- It is recommended to use Wash or dry cleaning.

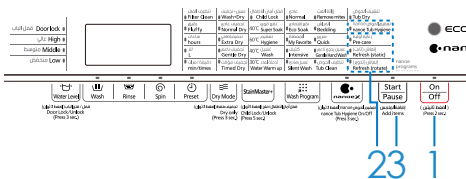
Can be used for all cloth products.(however, depending on the material, it cannot be used for some clothes)

	All cloth products	Items easy to be damaged or deformed due to tub rotation	High-end products, large items, etc.
	<ul style="list-style-type: none"> ● Towels, underwear, skirts, pants, POLO shirts, pet supplies, etc. 	<ul style="list-style-type: none"> ● Fine materials (silk products, woolen knitwear, embroidery and lace) ● Deformable items (puppets, cushions, hats, jackets, jumpsuits and items with core materials) ● Items containing sturdy materials (shoes, slippers, indoor shoes, toys, leather products, clothes with sturdy accessories, etc.) ● 1 kg or below of carpets (the lining or bottom can also be made of carbamate or rubber) 	<ul style="list-style-type: none"> ● Fur and other high-end products (may cause wrinkles or damage texture) ● Large items such as bed sheets (no effect) ● Greasy items ● Pets and other creatures 
Pre care	○	×	×
Refresh (rotate)	○	×	×
Refresh (static)	○	○	×

Use nanoe™ X

Pre care

Refresh (Rotate) / Refresh (Static)



Prepare

- ① Put the dry clothes in the washing tub
 - Please wipe off the water droplets in the tub. (if the clothes or tub is wet, it will not have any effect)
 - At "Refresh (static)", please spread out the clothes as much as possible and stretch the wrinkles before putting the clothes in.



② Close the door

- If too many clothes are put in, the machine will run, but the effect will be very weak.
 <Capacity> Pre care: 3 kg or below
 Refresh (rotate)/Refresh (static): 1 kg or below

Decompose water into fine particles through high voltage, and transfer the produced "nanoe™ X" to the tub, allowing it to enter the deep layer of the clothes to function and decompose sebum and dirt, and perform sterilization and deodorization (of cigarette odor, etc.).

* The effect will vary depending on the amount of laundry and the type and degree of dirt.

Attention

- Please keep the filter clean; the effect will be reduced if it is clogged with cotton scraps.
- nanoe™ X programs cannot remove dirt.
- Do not put any detergent, softener or bleach.

1

 Turn on the power

- "Preset" cannot be used.

2

 Select "Pre care"
"Refresh (rotate)"
"Refresh (static)"

- The program will change after each click.

3

 Start

The program ends when the buzzer sounds; take out the laundry immediately (wrinkles will occur if left untreated).

Flashing



How to use

Program Details

When in "Wash+Dry" or "Wash"

• Depending on the type of clothing, the time required may change.

Program	Operation content	Capacity (maximum)	Time required (approximate)	When using auto setting			
				Wash	Rinse	Spin	Dry Mode
Normal	Wash+Dry	10 kg *1	6 hours and 31 minutes *2, *3	12 ~ 25 minutes *4, *6	Twice	15 minutes or more	Normal *5
	Wash	18 kg *1	1 hour and 8 minutes *4	12 ~ 25 minutes *4, *6		6 minutes	—
Normal + Eco Soak	Wash+Dry	8 kg	7 hours and 1 minute *3	42 to 55 minutes *6	Twice	15 minutes or more	Normal *5
	Wash	8 kg	1 hour and 38 minutes	42 to 55 minutes *6		6 minutes	—
Intensive	Wash+Dry	10 kg	6 hours and 36 minutes *3	30 minutes *6	Twice	15 minutes or more	Normal *5
	Wash	18 kg	1 hour and 18 minutes	30 minutes *6		6 minutes	—
Silent Wash	Wash+Dry	5 kg	5 hour and 27 minutes	12 ~ 14 minutes *3, *6	Twice	15 minutes or more	Normal *5
	Wash	18 kg	59 minutes	12 to 14 minutes *6		10 minutes	—
Quick	Wash	8 kg	44 minutes	5 ~ 10 minutes *3, *6	Twice	3 minutes	—
Bedding	Wash+Dry	4 kg	4 hours and 53 minutes *3	13 minutes *6	3 times	11 minutes	Normal *5
	Wash	5 kg	1 hour and 21 minutes	13 minutes *6		3 minutes	—
Remove mites	Wash+Dry	3 kg	6 hour and 23 minutes	13 minutes	3 times	11 minutes	Normal *5
	Wash	3 kg	2 hour and 41 minutes			3 minutes	—
Gentle Hand Wash	Wash	1.5 kg	38 minutes	13 minutes	3 times	2 minutes	—
40 °C Super Soak	Wash+Dry	2 kg	8 hours and 25 minutes *3	6 hours	3 times	15 minutes	Normal *5
	Wash	2 kg	6 hour and 54 minutes	6 hours		6 minutes	—
40 °C Wash	Wash+Dry	4 kg	2 hours and 42 minutes *3	54 minutes *8	Twice	15 minutes or more	Normal *5
	Wash	4 kg (Suggest)	1 hour and 12 minutes	54 minutes *8		6 minutes	—
60 °C Hygiene	Wash+Dry	2 kg	3 hours and 24 minutes *3	1 hour and 50 minutes *8	Twice	15 minutes or more	Normal *5
	Wash	2 kg (Suggest)	2 hour and 08 minutes	1 hour and 50 minutes *8		6 minutes	—
Tub Clean	Wash	—	7 hours and 34 minutes *7	6 hours and 45 minutes	4 times	3 minutes	—
Tub Dry	Dry	—	30 minutes	—	—	—	—

* 1 In Normal+nanoë™ X "Pre care" program, the capacity is 3 kg or below.

* 2 In Normal+nanoë™ X "Pre care" program, the time will be extended by 2 hours.

* 3 When "Fluffy" is set, "Fluffy" will run for 2 hours after drying.

* 4 The washing time will be automatically set according to the capacity. If ECONAVI is set for the "Normal" program, the washing time will be automatically changed according to the water temperature detected.

* 5 Enter Fluffy at the end.

In "Dry Mode"

•Time required (approximate)

Switching range					
Temperature	Water Level	Wash	Rinse	Spin	Dry Mode
30 °C Cold water	High ↓ Low	7 ~ 30 minutes	1 ~ 4 times	3 ~ 15 minutes	Normal Intensive Gentle Dry Timed Dry
				1 ~ 15 minutes	—
	High ↓ Low	7 ~ 30 minutes		3 ~ 15 minutes	Normal Dry Extra Dry Gentle Dry Timed Dry
				1 ~ 15 minutes	—
	High ↓ Low	10 minutes		6 ~ 15 minutes	Normal Dry Extra Dry
				1 ~ 15 minutes	—
	High ↓ Low	7 ~ 30 minutes		10 ~ 15 minutes	Normal Dry Extra Dry
				1 ~ 15 minutes	—
	High ↓ Low	7 ~ 30 minutes		1 ~ 15 minutes	—
				1 ~ 15 minutes	—
	High	15 ~ 30 minutes		10 ~ 15 minutes	Normal Dry
				1 ~ 15 minutes	—
High	15 ~ 30 minutes	10 ~ 15 minutes	Normal Dry		
		1 ~ 15 minutes	—		
—	High	7 ~ 20 minutes	1 ~ 3 minutes	—	
40 °C	High ↓ Low	—*9	3 ~ 15 minutes	Normal Dry Extra Dry	
			1 ~ 15 minutes	—	
40 °C	High ↓ Low	—*9	3 ~ 15 minutes	Normal Dry Extra Dry	
			1 ~ 15 minutes	—	
60 °C	High ↓ Low	—*9	—*9	—*9	Normal Dry Extra Dry
				—	—
30 °C Cold water	High	7 minutes	4 times	3 minutes	—
—	—	—*9	—*9	—*9	—

Dry Mode	Time
Normal Dry	1 hour and 14 minutes ~ 5 hours and 15 minutes
Extra Dry	1 hour and 39 minutes ~ 5 hours and 38 minutes
Gentle Dry	1 hour and 57 minutes ~ 4 hours and 3 minutes
Timed Dry	10 minutes / 30 minutes / 60 minutes / 1 hour and 30 minutes 2 hours / 2 hours and 30 minutes
Tub Dry	30 minutes

Set range of scheduled operation

Operation content	Program	Set range
Wash	40 °C Wash	3 ~ 24 hours later
	60 °C Hygiene	
	40 °C Super Soak	9 ~ 24 hours later
	Remove mites	4 ~ 24 hours later
	Programs other than the above	2 ~ 24 hours later
Wash+Dry	Normal•Pre care	8 ~ 24 hours later
	40 °C Wash	
	60 °C Hygiene	14 ~ 24 hours later
	40 °C Super Soak	
	Remove mites	10 ~ 24 hours later
Programs other than the above	7 ~ 24 hours later	

How to use

* 6 When "30 °C" is set, the time required will be extended by about 20 minutes at most.

* 7 If "Auto Tub Care" is set - 7 hours and 34 minute; if "Auto Tub Care" is not set - 10 hours and 34 minutes (increased washing time).
If 30 °C Tub Clean is set - 3 hours and 4 minutes (reduced washing time).

* 8 Will automatically adjust the washing time according to the water temperature after water supply.

* 9 Cannot switch.

Maintenance

Main unit/dryer filter/detergent case

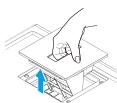
- When "Filter Clean" flashes, please confirm the following filter cleaning.
- After "Dry Mode" is over
- After "Wash" with StainMaster+

① Dryer filter

The display of "Filter clean" is to inform that a certain amount of lint has adhered to the dryer filter. It is possible that flashing occurs even after one operation, but it is not a malfunction.

Remove the lint.

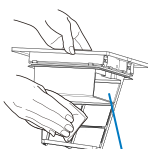
1 Remove the dryer filter.



- Do not remove while in operation.
- After removing the filter, do not wash the side of the machine body or put anything into it.

2 Wipe clean with a wrung out towel.

- Do not rub hard (to avoid filter damage)

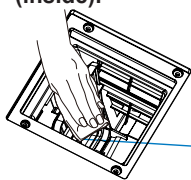


No filter



- When the mesh is blocked, wash thoroughly with warm water and then fully dry.

3 Remove the lint from the dryer filter (inside).



- Remove lint, and then wipe it with a wrung out towel.

Dryer filter (inside)

4 Remove the dryer filter (inside) and wash with water.

5 Install the dryer filter.

- Put in the whole filter completely.
- Do not operate the dryer with the filter screen removed (so as to avoid inaccurate drying or raising dust).

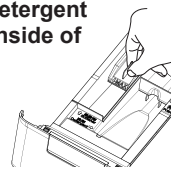
Detergent case

Water wash

1 Hold down the circular recess and pull it out.



2 Remove the lid and clean the inside of the detergent case and the inside of the lid (P. 51).

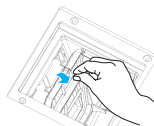


Attention

- Leaving the dirt untreated will cause mold. Moreover, the adhesion of dirt will make the softener not easy to flow.

1 Removal

Remove it to take out the lint.



2 Water wash

Rinse with running water, then rub with your fingertips while washing (do not use a brush).



3 Install

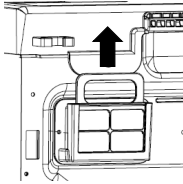
Install after it's completely dry.



When dirty

② Exhaust filter

1. Remove the exhaust filter.



- Do not remove while in operation.
- After removing the filter, do not wash the side of the machine body or put anything into it.

2. Wipe clean with a wrung out towel.



- Remove the lint and then wipe it with a wrung out towel.

Attention

- After maintenance, be sure to install the exhaust filter back to its original position.

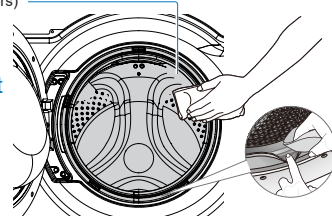
Main unit/Window seal

Wipe with a soft cloth.

- If there is any lint, water droplet or foreign object on the inside around the edge of the door, please wipe it off with a wrung out towel. (so as to avoid blockage by the lint which may cause water leakage and odors)

When the dirt is serious

Can wipe with neutral detergent used in the kitchen.



Attention

- Do not use detergent, thinner, gasoline, alcohol, kerosene, etc.
- When the machine body (especially the door and the operation panel) gets wet with detergent or softener, it should be wiped with a wrung out towel immediately. (in order to avoid peeling of printed fonts, resin damage or metal corrosion, or abnormal movement.)
Especially the resin part may crack when concentrated liquid detergent gets into it, please be careful.

To prevent abnormal drainage ③ drain filter cleaning (about once a week)

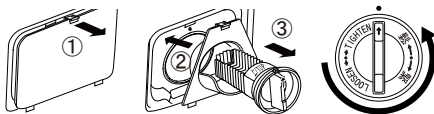
■ Clean the drain filter when the indicator is flashing.

- ※ Especially when in Dry Mode, lint is easy to accumulate, so please clean it every time.
- ※ If foreign objects such as lint are not removed, they may cause the internal drainage pipe to be blocked. When washing, if U11 appears on the panel, please refer to P.45.
- ※ Do not open the drain filter while washing, otherwise it will cause serious water leakage.

How to take out the drain filter (the diagram below)

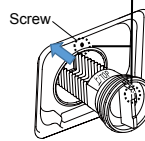
- ① Be sure to turn off the power after "Spin" is completed, and then remove the cover.
- ② When the drain filter is removed, water will flow out. Please install the sub drain outlet.
- ③ After loosening the drain filter in a counterclockwise direction, confirm there is no residual water, and then take out the drain filter.

Rotate



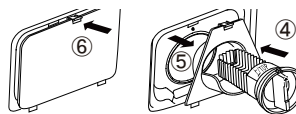
How to lock the drain filter.

- ④ "↑" and "screw" are aligned and pushed in. Then rotate 2 times clockwise until "↑" and "screw" are aligned.



- ※ Please make sure to turn to the fixed position otherwise it will cause water leakage.

- ⑤ Please remove the sub drain outlet.
- ⑥ Please install the cover.



Maintenance

Tub Clean/Tub Dry

Prevent black mold and odors in the tub.

Clean with chlorine-containing bleach (about once a month).

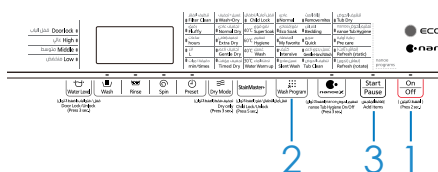
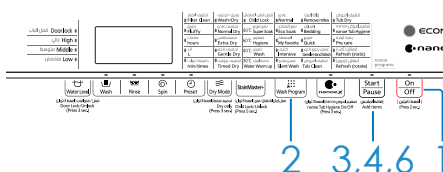
Drying (about once a week)

To make it cleaner...


Clear the moisture after washing...

"Tub Clean" program

"Tub Dry" program



Preparation: Turn on the faucet.

- 1 **On Off** Do not put clothes in. Turn on the power
- 2 **Wash Program** Select **Tub Clean** program
The "Tub Clean" light is on. Select water temperature "30 °C Water Warm up".
- 3 **Start Pause** **Start**
When water filling is over...
- 4 **Start Pause** **Pause**.
- 5 Put the chlorine-containing bleach for clothes directly into the tub.

About 200 ml.
- 6 **Start Pause** **Close the door and press Start.**
● Eco Soak → Rinse → Spin

Instruction

- When "Auto Tub Care" is set → it takes about 7 hours and 34 minutes.
- When "Auto Tub Care" is not set → it takes about 10 hours and 34 minutes.
- "30 °C Tub Clean" → it takes about 3 hours and 4 minutes.
- Setting/disabling of Auto Tub Care (P.44)

Attention

- Do not use oxygen-containing bleach or detergent (so as to avoid excessive foam leading to draining during operation).

- 1 **On Off** Do not put clothes in. Turn on the power
- 2 **Wash Program** Select **Tub Dry** program
The "Tub Dry" light is on.
- 3 **Start Pause** **Start**
● The tub will rotate and blow hot air for about 30 minutes.
It is over when the buzzer sounds.

Attention

- "Fluffy", "Preset", "Dry Mode" and nanoe™ X "nanoe Tub Hygiene" cannot be used.

Other notes

■If the dirt is left untreated, it will be difficult to wash off; so wash it off as soon as possible.

■Filth of tomatoes, mayonnaise, blood, etc.

■Filth of black tea, fruit juice, etc.

Apply oxygen-containing liquid bleach on the clothing directly, and then wash it together with other laundry.

-----How to deal with darkening and yellowing-----

Please soak in bleach-dissolved liquid for about 2 hours.
Please use chlorine-containing bleach for white clothing, and use oxygen-containing bleach for colored clothing.

•For different types of clothes, please follow the instructions for the bleach regarding whether bleach can be used and the amount.
•If oxygen-containing bleach is to be used, it is better to dissolve the powder-type bleach in hot water at about 40 °C before using.

■Please carefully handle threads and lint on the clothes.

- Separately wash towels, bath towels and sheets that are prone to lint.
- When worried about the attachment of thread ends, wash it with water supply or increase the number of rinse.



When lint is attached to the clothes

Use stocky tape to stick it off.



■About the shrinkage of clothes caused by drying

Some clothing will shrink after soaked in water or dried after washing. This is because the tension applied to the fabric during processing returns to its original state due to washing. If the drying operation is carried out, the shrinkage may be more serious.

■Knitwear such as cotton and linen

- When knitwear of cotton or linen is subjected to mechanical force during drying, it may shrink due to the blockage of the mesh.



■How to reduce the degree of shrinkage

- Before drying, please carefully check the icon, marking and material mark on the clothes.
- Use hanging to dry until the clothes are almost dry, and then use this machine to dry the clothes completely. Please use the sun drying method in combination.



■Chemical fiber clothing

- Due to the effect of heating during drying, the chemical fiber itself may shrink.
- After cotton products and other clothes have shrunk, if they are fully wetted and stretched, they can recover to a certain extent.
- For chemical fiber clothing that is not resistant to heat, please use Gentle Dry.



Attention

- Please confirm and select the Dry Mode according to the washing and drying marks on the clothes.

■Points on Dry

- Do not leave it alone after the buzzer has sounded; take out the clothes immediately!
- Do not put too many clothes: less than the Normal Dry capacity (70 ~ 80%).

- Clean the dryer filter every time and install it correctly! If the filter mesh is clogged, the air circulation will become poor and the drying time will be longer.

■Notes

Do not spray any insecticide, hair styling liquid or deodorant on this product.
(they will cause malfunctions and damage to the plastic parts or other unpredictable dangers)

Do not use polyvinyl chloride (PVC) protective cover.

- (it will damage the plastic part and the paint surface)
- If you use it, please do not directly touch the machine body; spread a piece of cloth under it and then cover it with a protective cover.

Do not place the machine in a place prone to condensation.

- When the temperature is high and the water temperature is low, water drops will wet the floor.

Do not put a charger on this product.

- If the charger for an item such as an electric toothbrush is placed close to this product, it may cause misoperation.

Do not put in too much laundry and detergent when washing.

Do not put objects on top of this product during operation.

- Because the vibration during operation may cause objects to fall.
- If a laundry basket is put on top of this product when it is not used, please do not touch the water supply pipe to avoid water leakage.

Keep away from home appliances such as TVs and radios.

- Will result in image distortion and noise.






















When in the Dry Mode, the upper part of the product body, the drying clothes filter, the air vent and the door will be slightly hot. This is normal and please use it with peace of mind, but please pay attention and avoid low-temperature burns.

Notes after use

■After using the washing machine, please turn off the faucet and unplug the power plug.

Changing the Settings

■ Make changes to the settings.

<p>1 Press  for 2 seconds Turn on the power</p> <p>2  Select "Tub Clean"</p> <p>3  Press for more than 3 seconds ⇒ "000" will display</p>	<p>A Set to not perform ECONAVI (P.13)</p>	<p>4 Use  to set ECONAVI The Wash light will change after each press. Light on Perform ECONAVI (at the time of purchase). Light off Does not perform ECONAVI.</p>	<p>5 Press  (the setting is completed after 6 beeps)</p>
	<p>B Change the number of rinse for "Quick" to 1. (P.29)</p>	<p>4 Use  to set the number of rinse under Quick. The Rinse light will change after each press. Light on Once Light off Twice (at the time of purchase).</p>	<p>5 Press  (the setting is completed after 6 beeps)</p>
	<p>C Set not to perform Auto Tub Care (P.14)</p>	<p>4 Use  to set the performing of Auto Tub Care in the program. The Spin light will change after each press. Light on Perform Auto Tub Care in the program (at the time of purchase) Light off Do not perform Auto Tub Care in the program</p>	<p>5 Press  (the setting is completed after 6 beeps) *After setting, the running time will be extended by about 5 minutes.</p>
	<p>D "Fluffy" run after the Dry Mode (P.14)</p>	<p>4 Use  to set Fluffy run after the Dry Mode.  will display after each press. Light on "Fluffy" will run after the Dry Mode. Light off "Fluffy" will not run after the Dry Mode (at the time of purchase).</p>	<p>5 Press  (the setting is completed after 6 beeps)</p>
	<p>E Stop the buzzer sound at the end of operation</p>	<p>4 Use  to set the buzzer.  will display after each press. Light on The buzzer sounds at the end of operation (at the time of purchase). Light off The buzzer does not sound at the end of operation.</p>	<p>5 Press  (the setting is completed after 6 beeps)</p>
	<p>F Set to not perform the laundry basket mode.</p>	<p>4 Use  to set the laundry basket mode. The nanoe™ X light will change after each press. Light on Perform laundry basket mode during Preset (at the time of purchase). Light off Do not perform laundry basket mode during Preset.</p>	<p>5 Press  (the setting is completed after 6 beeps)</p>
	<p>G Stop nanoe™ X "nanoe Tub Hygiene" (P. 14)</p>	<p>1  Turn on the power 2  Press for more than 3 seconds (when the buzzer beeps and the "nanoe Tub Hygiene" light is on, then the setting is completed) *Set the same steps when returning. (when the buzzer beeps and the "nanoe Tub Hygiene" light is off, then the setting is completed)</p>	

Attention

- The setting contents will still be memorized even if the power is turned off.
- **A** ~ **F** can be set at the same time.

Error Messages

■ When the buzzer sounds and "U" and "number" appear alternately, please check the following items.

<p>U 11</p> <p>Unable to drain</p>	<ul style="list-style-type: none"> ● Please check the drain pipe and the drain port. <ul style="list-style-type: none"> • Is it facing upwards? • Is it broken? • Is there any clogging of the drain pipe and the drain? • Is the end soaked in water? • Clean the drain filter if blocked. (P.41) • Is it frozen? <p>→The operation will restart by opening and closing the door.(※1)</p> <ul style="list-style-type: none"> ● If the error message still appears after checking the items above, please contact the "Panasonic" service station.
<p>U 12</p> <p>Door open</p>	<ul style="list-style-type: none"> ● Please close the door and make sure that the door lock is firmly locked.
<p>U 13</p> <p>Unable to spin</p>	<ul style="list-style-type: none"> ● Is there too much or too little clothing? <ul style="list-style-type: none"> • Lots of large items (terry cloth sheets, judo uniforms, etc.)→reduce the number of large items • Lots of clothes→Unentangle them • Few clothes→Wash 1 or 2 more bath towels →The operation will restart by opening and closing the door. (※1) ● Is the body damaged due to old age or is it set on a sloping ground? ● Please check the drain pipe and the drain port. (please refer to the content of "U11")
<p>U 14</p> <p>Unable to fill water</p>	<ul style="list-style-type: none"> ● Please check the water supply path. <ul style="list-style-type: none"> • Did you turn on the faucet? • Are the tap water and water supply pipes frozen? • Is the water supply filter clogged with debris? (P.54) • Is the water supply stopped? →The operation will restart by opening and closing the door. (※1)
<p>U 16</p> <p>No dryer filter installed</p>	<ul style="list-style-type: none"> ● Is the dryer filter installed correctly? (P.40) →Please install it properly after cleaning and maintenance.Restart operation after installation.

■ When "H" and "number" appear alternately, please check the following items.

<p>H 00</p> <p>Needs to be checked</p>	<ul style="list-style-type: none"> ● The machine needs to be check when "H" and "number" are displayed. Please confirm the content displayed (the 2 digits after "H"), unplug the power plug, and contact the "Panasonic" service station for handling.
---	--

※1: When setting Child Lock, please shut down the machine and start again.

For Better Results

When encountering this situation

Blackening, yellowing, dyeing and odor

Feeling that the clothes are not washed clean

Damage to the laundry

Shrinkage

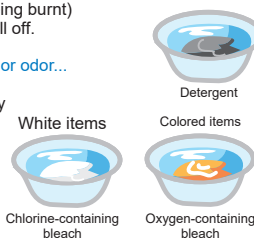
The secret to perfect washed laundry

- Please use an appropriate amount of detergent. (P.23)
(Too little detergent will make the fallen dirt adhere again, causing the clothes to turn black or smelly)
→ There may be noticeable blackening when liquid detergent is used. Otherwise use powder detergent instead.
- If softener is used when washing, it can suppress the generation of static electricity.
- Putting too much softener will cause a large amount of softener to remain on the clothes, causing the clothes to turn black.
→ Please use an appropriate amount of softener. (P.23)
- Please separately wash items that are easy to fade (newly purchased items with bright colors, etc. or items with serious dirt). (P.21)
- Clothes may turn yellow after drying due to factors such as rust in tap water, residual of detergent, dyeing, etc. (looks like being burnt)
- The discoloration caused by sunlight cannot fall off.



When you mind blackening, yellowing, staining, or odor...

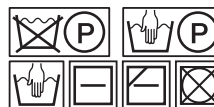
- Please put 2 tablespoons of detergent in warm water at about 40 °C, and let the detergent fully dissolve, then let the clothes soak overnight before washing.
- If it still does not fall off, please soak the clothes in a liquid with dissolved bleach for about 2 hours. Please use chlorine-containing bleach for white items, and use oxygen-containing bleach for colored items. (follow the instructions of the bleach)



- If you are not satisfied with the cleaning effect of the ECONAVI, please refer to P.44 to change the setting and disable ECONAVI.

- Please put delicate clothes such as undershirts in the laundry net and then wash. (P.21)
- Chemical fibers (sweatshirts, fleece, etc.) are easy to dry, so there may be friction damage.
→ Can shorten the drying time.

- Some clothes are not suitable for dipping or drying due to factors such as the material, weave, thickness, shape, etc.



- Before washing and drying clothes, please fully confirm the processing label and material label.
- Even cotton or linen fibers, woven fabrics or materials with large seams may shrink due to drying.
→ Use "Timed Dry" to dry clothes, and take them out in a semi-dry state and immediately hang them to dry.
→ Dry most part of the clothes by hanging them to dry, and finally carry out "Dry Mode"; use the sun to dry them as much as possible.
- The fiber of chemical fiber may shrink due to the heat during drying.

When cotton products shrink from drying...

→ The shrunk state will be restored to a certain extent by fully soaking the clothes and then stretch them.

When clothes shrink after using "Gentle Hand Wash"...

- ① Put the clothes on the ironing table and stretch them out to the size you want, and then fix them with needles.
- ② Let the iron lightly float on the clothes, and iron them with sufficient steam.
- ③ Keep this state until they are completely dry.



For Better Results

When encountering this situation

Serious wrinkles and texture changes due to drying

The secret to perfect washed laundry

- Some clothes are not suitable for washing and drying machines due to factors such as the material, weaving, thickness and shape.
 - Before washing and drying clothes, please fully confirm the processing label and material label. (thin plain weave and crepe materials are prone to wrinkles)
- Have you put in too many clothes?
 - Slightly reduce the load and the washing results can improve.
- Can I choose the drying mode that matches the clothes? (P.19)
 - Control the capacity at 3 kg or below, and then use "Gentle Dry" to dry.



Cotton pants, large sheets, etc...


After 30 minutes of "Timed Dry", take the clothes out in a semi-dry state and leave them outdoors to dry.

- Are there any clothes left untreated after drying?
 - After drying the clothes, please take them out of the tub immediately.
- Increasing the washing time or the number of rinse may make the clothes entangle easily, or the wrinkles may become serious.
 - Take the clothes out once after drying to untie them and reduce wrinkles.



Lint attachments

- Towels and other items are prone to lint, so it is best to wash them separately.
 - If you mind the lint, please increase the number of rinse.
 - Especially lint is easy to accumulate after drying, so please take care of it.
- There is lint attached to the clothes every time...**
- Please use the following method to clean the tub and remove the lint from the tub. (P.42)

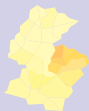
- ① Turn on the faucet.
- ②  Turn on the power.
- ③  Select "Tub Clean".
- ④  Press Start.

- Please perform maintenance of the "drain filter" after completion. (P.41)

Poor stain removal effect; stains cannot be removed

- For stains, mud and other dirt that are not easy to remove, please perform pre-treatment. (P.21)
- If the dirt is left untreated, it will become more difficult to remove.
- May have chemically changed dyes such as perm liquid, rust, mold, ink, lipstick, etc. not removed.
- Use "Eco Soak" or "Intensive" to set the preferred content according to the state of the dirt.

Becomes stiff



The drum washing machine uses flapping type washing, so fibers in items such as towels may stagnate and feel stiff.

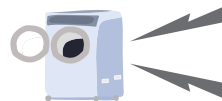
→ Use "Fluffy". (P.44)

- The use of softeners can improve laundry entangling results.
- If you still mind the entangling, please perform a 30-minute "Timed Dry" and then hang the clothes to dry.

FAQ

Check the status of the laundry in the tub or the installation of the washing machine.

Doubts about the noise The vibration is violent, making a rattling sound!

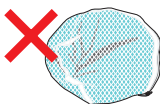


Instruction

- The drum washing machine is different from the traditional washing machine (upright type); its body will temporarily vibrate or make a rattling sound when "Spin" is activated according to the balance of the clothes, which is not abnormal.

■The key to smooth spinning

- Do not stuff clothes into the laundry net.



- Do not just wash the clothes that are put in the laundry net.



- Towels, cloth sheets or judo uniforms should be washed separately from other laundry.

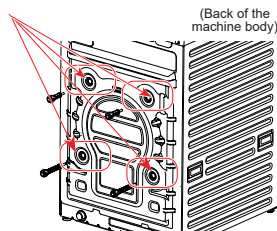
■The vibration of the drum washing machine...

- Depending on the floor material or the contents of the laundry (when there are jeans or thick terry cloth sheets in the washing, or only 1 sweatshirt, etc.), there may be the situation of violent vibration.

■What is the installation status? (refer to installation instructions on P. 7)

In the following cases, please contact the "Panasonic" service station of your purchase immediately.

- Have you not removed the 4 fixing bolts for transportation? If the bolts are not removed, the body will move, which is very dangerous.



Keeps flashing?Why...?(remaining time)

■It will flash in the following situations.

قفل الباب Door lock	تنظيف فلترا Filter clean
عالي High	رقدة Fluffy
متوسط Middle	ساعات hours
منخفض Low	لتر liter
	دقيقة / ساعات min/times

- When "Remaining time (minutes)" flashes...
→The water temperature is being detected. The time is automatically adjusted according to the water temperature, so the displayed time may be different from the actual time.

FAQ

The clothes are not completely dry

Drying time is long! Not dried!

Is the dryer filter in the following state?

- Is there any lint attached to the dryer filter or exhaust filter?

→ Remove the lint for maintenance. (P.40)

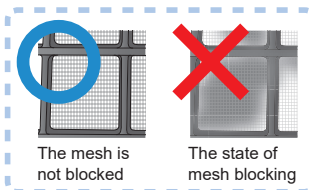
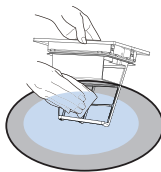
- Is the mesh of the dryer filter blocked?

("Filter Clean" flashes)

→ The mesh may still be blocked even if the lint is removed.

Please wash it thoroughly with warm water and then fully dry it.

Please also remove the lint from the dryer filter (inside), and then wipe it with a wrung towel.



Attention

- When the detergent is prone to foam or if too much foam is caused by too much detergent, the foam in the tub will move to the dryer filter due to the rotation of Spin, making the mesh of the filter blocked or full of foam. When the mesh is blocked or full of foam, please reduce the amount of detergent.

The volume and state of laundry?

- Is there too much laundry?

→ Please control the capacity below the limit of each program. (P.18)

- Are there many clothes (made of cotton) that are not easy to dry?

→ For clothes that are not completely dry, please use "Timed Dry" to dry them again. (P.35)

- Are there a lot of thick clothes (jeans, sweatshirts, judo uniforms, etc.)?

→ Please select "Extra Dry" to dry clothes. (P.19)

- Have you put a lot of towels in for "Wash+Dry"?

→ Towels may stick to the inner wall of the tub during the "Spin", making the drying effect worse. Please add other clothes (about 20% to 30%) for "Wash+Dry", or fluff the clothes first after Spin and then dry the clothes.

- Is the spin time set too short?

→ For clothes that are not easy to dry, please set "Spin" to 15 minutes.

- When the "Dry" mode is running, Is the laundry spun before drying?

- Is the laundry put into the laundry net?

→ The drying effect will be worse.

Other

- Did you open the door several times during operation?

→ Please control the opening and closing of the door to the least number of times.

- The "Dry" operation is over when "Fluffy" flashes.

→ Please open the door and take out the clothes.

- The clothes cannot be dried when the room temperature is too low. (below 5 °C)

The remaining time in the drying process did not decrease or suddenly decreased!

The time displayed is an estimated standard value, which is different from the actual time.



- The time displayed is the estimated time required for drying clothes. The time is automatically adjusted according to the type of clothes and the drying state, so the time displayed may be different from the actual drying time.

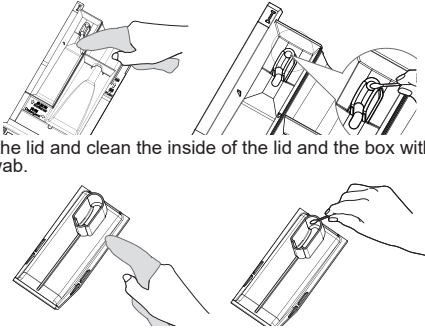
- When it is more than 1 hour or the remaining time does not decrease, it may be because the mesh of the dryer filter is blocked or the spinning time is not enough.

→ Maintenance of dryer filter (P. 40)

Troubleshooting


Problem		Reason
Machine body	The button does not work?	<ul style="list-style-type: none"> •After start, switch by pressing the "Start/Pause" button during the whole washing process. To change the program or the content after Rinse, please turn on the power again. •The buttons do not work only when the "Door lock" light is on. Please allow the tub to cool down after unlocking the door. (P.15) •In the nanoe™ X "nanoe Tub Hygiene" standby state (P. 25), the buttons do not work. Please restart the power supply. •Is "0" not displayed on the operation part?Please turn the power supply to "Off" and then operate. •When presetting a program
	The dryer filter is found to be damp during cleaning and maintenance	<ul style="list-style-type: none"> •The clothes may be damp if the drying time is set to be short or when the drying stops in the middle, but it is not abnormal.Please dry completely. (so as not to generate mold)
	The door cannot be opened	<ul style="list-style-type: none"> •When the tub is hot. •Door lock function setting. (P.15) •Child Lock function setting. (P.15)
	There is a smell	<ul style="list-style-type: none"> •Because of the use of rubber parts, there will be a smell of rubber at the beginning, but it will gradually disappear after use. •Please take out the clothes immediately after the operation is over. •Please conduct maintenance on the inside of the edge of the door. (P.41) •Please clean the tub with a tub detergent. (P.42)
Wash	Cannot see water when washing	<ul style="list-style-type: none"> •This is because the drum washing and drying machine uses less water when washing compared with the fully automatic washing machine.
	No water supply	<ul style="list-style-type: none"> • Is the faucet not turned on? •Is there no water supply? •Is the connection port of the water supply pipe blocked by dirt? Please remove the water supply pipe and clean the filter at the connection port of the water supply pipe. (P.54) •The water supply may be temporarily stopped when there is too much foam.
	Water is supplied but not stored	<ul style="list-style-type: none"> •Sometimes the water may be discharged immediately without storing, so please do not open the door and pour water or hot water into the tub. •There may be a small amount of water discharged when the machine is restarted.
	Water supply in the middle	<ul style="list-style-type: none"> •If the water level drops, water refill will start automatically. •When the volume of clothes is large, water may be refilled several times.
	Water discharge in the middle	<ul style="list-style-type: none"> •When there is too much foam, the operation of water discharge→water supply will repeat to remove the foam. •Water discharge in the middle of "Wash" of the "Intensive" program can prevent dirt from attaching again. •Use a tub detergent with interface active agent to run "Tub Clean", and there may be more foam or drainage in the middle. •There may be a small amount of drainage when restarting.

Troubleshooting

Problem		Reason
Foam Cleaning and Detergent	Not foamy	<ul style="list-style-type: none"> ●Is the powdered synthetic detergent put directly into the tub? →Be sure to put it in the detergent case. ●The degree of foaming may be affected by the water quality, water temperature and water level. ●When the amount of detergent put in is small ●The type of detergent (low-foaming type detergent, etc.) ●When the clothes are too dirty ●When too many clothes are put in
	When there is a lot of foam, there may be foam attached to the inside of the door.	<ul style="list-style-type: none"> ●The degree of foaming may be affected by the water quality, water temperature and water level. ●When too much detergent is put in. ●Type of detergent (liquid neutral detergent, etc.)
	No foam	<ul style="list-style-type: none"> ●Is the powdered synthetic detergent put directly into the tub? →Be sure to put it in the detergent case. ●The degree of foaming may be affected by the water quality, water temperature and water level.
	Softener overflow	<ul style="list-style-type: none"> ●If the softener put in exceeds the "MAX" position of the detergent case, it will flow out naturally. ●When closing the detergent case, if you use too much force, it may spill out of the machine.
	Powder detergent not completely dissolved	<ul style="list-style-type: none"> ●Is the powdered detergent put directly into the tub? →Be sure to put it in the detergent case. ●Depending on the brand, the detergent may not easily dissolve when the water temperature is low. →Put the detergent into the detergent case after fully dissolved. ●Is there already water in the tub, or is the detergent put in after water supply is finished? →Pour about 1 cup of water into the detergent case. ●Is the detergent agglomerated, or put directly into the detergent case in the wet state? ●Is there any debris accumulated at the water supply filter, or is the state of the water outlet deteriorated? →If water with a lot of impurities such as well water is used, it is easy to accumulate debris and frequent cleaning is needed (P. 54) ●Is the faucet turned on after starting? ●Is there any detergent, softener or water residue in the detergent case? →Cleaning the detergent case. →Turn up the faucet to increase the water supply. →Depending on the brand, some softeners may not flow easily. You may use the same amount of water to fully dissolve the softener before putting it into the input part of the detergent case. (depending on the brand, some may solidify after being mixed with a small amount of water and cannot be used) ●Is the detergent case covered with softener? →Remove the lid and clean the inside of the detergent case with a soft cloth or cotton swab. <div style="text-align: center;">  </div> <p>→Remove the lid and clean the inside of the lid and the box with a soft cloth or cotton swab.</p>

Reference


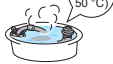




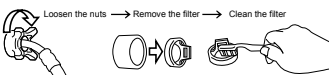
Troubleshooting

Problem		Reason
Dry Mode	Drying time is too long 	Please confirm the installation status. <ul style="list-style-type: none"> ●Is the drain pipe raised higher midway? ●Is the back of the machine body leaning against the wall? Please stay away from the wall for 10 cm or above. ●Is the machine installed in an enclosed and narrow place? Please check the clothes and dryer filter. <ul style="list-style-type: none"> ●Are there too many clothes? →Do not exceed 10 kg. ●When only "Dry Mode" is performed, are the clothes entangled from spin separated and then put in separately? ●Does the dryer filter need to be cleaned? (P.40) ※When the "Filter Clean" light flashes, be sure to clean the dryer filter. Please confirm the Fluffy light is on. <ul style="list-style-type: none"> ●When the "Fluffy" light flashes, it means that the Dry program has ended. Please open the door and remove the clothes. When the Dry process is running, there is a function of automatic dryness detection, so the actual drying time is different from the indicated time, which is not abnormal.
	Water droplets on the door and tub after drying	<ul style="list-style-type: none"> ●Were there too many clothes or heavy clothes put in? Is the mesh of the dryer filter clogged? (P.40) ●Is the "Spin" time set too short?
	Not dry/uneven drying (some clothes are not dry after the drying process is over)	<ul style="list-style-type: none"> ●Is the mode switched to Spin? If the Spin time is less than 3 minutes, the clothes may dry unevenly depending on the type of clothes. The same goes for clothes that are not sufficiently spun and those wrung out by hand. ●Are clothes that are easy to dry mixed with those not easy to dry? ●Is a process other than "Extra Dry" used to wash thick clothes that are not easy to dry? If all the clothes are thick or the volume of clothes for drying is too high, uneven drying may also occur. ●When only "Dry Mode" is performed, are the clothes entangled from spin separated and then put in separately?
	Severe wrinkles	<ul style="list-style-type: none"> ●Is the process running when there are too many clothes for drying? ●When only "Dry" is performed, are the clothes entangled from spin separated and then put in separately? ●Increasing the washing time or the number of rinse may make the clothes entangle more easily, and the wrinkles may become more serious if you are worried, please separate the entangled clothes after spinning. ●Select an appropriate laundry schedule. (P.18)

Troubleshooting

Problem		Reason
Display	The washing time is longer than the displayed time	<ul style="list-style-type: none"> ●If the clothes are leaning to one side, the running time will be longer in order to automatically correct the slant. Especially when there is too much or too little clothing. ●Please check the drain pipe and the drain port. (P.45 "U11") ●The running time will be longer in the following cases.(in order to eliminate the increased foam in laundry) <ul style="list-style-type: none"> • When lots of detergent is used • Foamy detergent is used • The clothes are not dirty →Reduce the amount of detergent
	The remaining time is different from the displayed time	<ul style="list-style-type: none"> ●The displayed time is an estimated standard value, which is slightly different from the actual time. ●In order to prevent the clothes from becoming stiff, the Fluffy process will be longer after Spin. Therefore, the remaining time and the display time are very different. ●The running time will be automatically adjusted according to the dryness of the clothes. It is not a malfunction.
	The remaining time is "0" but it is still running	<ul style="list-style-type: none"> ●Even if "Fluffy" is terminated, in order to cool the inside of the tub, the machine will still run while air is supplied before the door is opened (up to 2 hours). (the running time varies depending on the room temperature and the clogging of the dryer filter) Even when air is supplied, the door can still be opened to take out the clothes.
	The water volume is set to "high" but the water volume has not changed	<ul style="list-style-type: none"> ●The water volume may not change when there are a lot of bubbles. (to prevent foam from overflowing)
Sound	The sound changes during drying	<ul style="list-style-type: none"> ●This is because the rotation speed changes with the amount of clothes and the degree of dryness, so the running sound also changes, which is not abnormal.
	There is still the sound of the fan after the operation stops	<ul style="list-style-type: none"> ●When the door is unlocked during the drying process, the fan still performing cooling during the period from door unlocking to door opening.
	A low-pitched sound of "puff, puff" occurs when spinning or drying clothes	<ul style="list-style-type: none"> ●This is due to the change of air pressure in the tub, and it is not a malfunction.
	Abnormal noise Violent vibration	<ul style="list-style-type: none"> ●Have the fixing screws (for packaging) been removed? Is the machine body installed horizontally on a solid floor? →Please consult with the dealer of your purchase. ●Are foreign objects such as hairpins or metal objects mixed in?
	The drain filter is open	Opening the drain filter during the washing cycle will cause water to leak.

Troubleshooting

Problem		Reason
Other	When the circuit breaker trips (when the fuse/protector trips)	<p>The operation is stopped. The operation will not start even after the power is restored.</p> <ul style="list-style-type: none"> •When the circuit breaker is disconnected during the washing process, please find out the cause and take measures, and then reset the circuit breaker and press the power button "ON" to restart the operation. •When the circuit breaker is disconnected during the drying process, please find out the cause and take measures, and then reset the circuit breaker and press the power button "ON" to release the "Door lock". Restart operation after cooling down. (P.15)
	When the power goes out	<ul style="list-style-type: none"> •The operation is stopped. When power is on again, press power ON key, the "Running" light flashes for 3 seconds before the original operation resume from where it is interrupted.
	When water is cut off Turbid water comes out	<ul style="list-style-type: none"> •After the water is off, turbid water may flow out. Please temporarily remove the water supply pipe and let the turbid water completely flow out of the faucet before starting to wash.
	The water supply pipe is frozen	<ul style="list-style-type: none"> •Please follow the steps below to warm the connection part, water supply pipe and tub. <ol style="list-style-type: none"> ① Wrap the connection part with a hot towel  ② Remove the water supply pipe and immerse it in warm water. (Below 50°C)  ③ Pour 2~3 liters of warm water into the tub. (Below 50°C) 
	The water supply becomes worse	<ul style="list-style-type: none"> •Please follow the steps below to maintain the water supply filter. <ol style="list-style-type: none"> ① Turn off the tap. ②  Turn on the power (press for 2 seconds). ③  Press Start → Drain the water from the pipe after about 1 minute. ④  Turn off the power (press for 2 seconds). ⑤ Loosen the nuts. <ul style="list-style-type: none"> •When using well water → There are many impurities and debris which are easy to accumulate, so frequent cleaning is required. ⑥ Remove the water supply pipe, and clean the filter screen of the water supply valve with a toothbrush. (Recommendation: The front of the tools such as needle-nose pliers is preferred to be flat to prevent the filter from being pierced and unable to filter dirt, resulting in damage to the water supply valve) 

Specification

Specification

Model name	NA-S180X2LSA	NA-S180X2LAS
Rated voltage	220 V	220 V - 240 V
Rated frequency	60 Hz	50 Hz
Power consumption of Wash	330 W	350 W
Power consumption of StainMaster+	950 W	1050 W
Power consumption of Dry Mode	1320 W	1370 W
Rated current of Wash	2.6 A	3.0 A
Rated current of StainMaster+	4.6 A	4.7 A
Rated current of Dry Mode	6.0 A	6.1 A
Dimensions	Width 686×Depth 770×Height 1035 (mm)	
Product weight	105 kg	
Maximum mass of dry cloth (Wash)	18 kg	
Maximum mass of dry cloth (StainMaster+)	18 kg	
Maximum mass of dry cloth (Spin)	18 kg	
Maximum mass of dry cloth (Dry)	10 kg	
Standard water volume (at the time of washing)	53 L	
Annual Water Consumption	26400 liters	-
Annual Energy Consumption	301 kWh	-
Pressure of tap water	0.02 MPa - 1 MPa (0.2 kgf/cm ² - 10 kgf/cm ²)	

Service Warranty Exclusions

■ Places or purposes other than for general household use:

For barbershops, beauty salons, nursing homes, hospitals and other places with a daily frequency of use higher than that of ordinary households, although the product is within the warranty period, service fees must be charged for maintenance in principle.

Product checking and confirmation for long-time use

Does the product have the signs listed on the right	<ul style="list-style-type: none"> • The power cord or plug set is abnormally hot (hot). • Peculiar smell such as burning or odor, or abnormal vibration or noise during operation. • Spin cannot stop normally. • Water leakage (at the water supply pipe, drain pipe, etc.). • When there is a feeling of electric leakage and tingling when touching the product. • When other anomalies occur. 	<p>➔</p> <p>If the product has these signs, in order to prevent malfunction or expansion of the accident, please turn off the power of the product, unplug it from the power socket, and contact the nearest Panasonic service station for inspection or maintenance.</p>
---	--	---

For Saudi Arabia only.

Procedure to achieve the energy and water performance requirements specified in SASO 2885.

	60 °C Cotton program (full) [60 °C Hygiene]	60 °C Cotton program (partial) [60 °C Hygiene]	40 °C Cotton program (partial) [40 °C Wash]
Wash (1 time)	47 L, 80 min	31 L, 80 min	31 L, 50 min
Rinse (2 times)	83 L, 13 min	80 L, 5 min	80 L, 5 min
Spin (1 time)	15 min	15 min	15 min

Manufacturer: Panasonic Taiwan Co., Ltd.
579, Yuan Shan Road, Chung-Ho
District, New Taipei City, Taiwan

Panasonic Corporation

<https://www.panasonic.com>
© Panasonic Taiwan Co., Ltd. 2022

Printed in Taiwan
W0522-0
AWW9901H0NH0-0H0