

## Operating & Installation Instructions

Washing Machine (Household Use)

Model No. **NA-V105FR1** **NA-V10FR1** **NA-V90FR1**  
**NA-V10FC1** **NA-V95FC1** **NA-V90FC1**



It is essential to read these instructions.

EN

Thank you for purchasing this product.

- Read these instructions carefully for optimum performance and safety before use.
- Keep this manual for future reference.

Contents This washing machine has  
 "Dry Assist" function (P. 28).

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# Safety Precautions



## WARNING

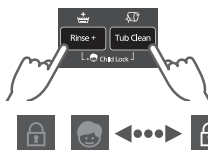
### May cause serious injury or death

#### Children must not use it alone.



- 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.
- Children should be supervised to ensure that they do not play with the appliance.

#### Setting the Child Lock. (P. 30)



Hold  
5 sec.

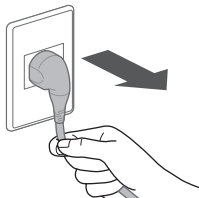


### May cause fire or electric shock

#### Do not touch it with wet hands.



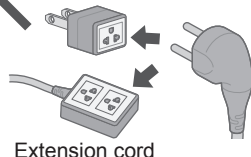
#### Do not hold or pull on the cord.



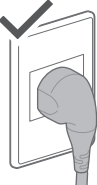
#### Do not use.



Plug adaptor



#### Fully insert it.

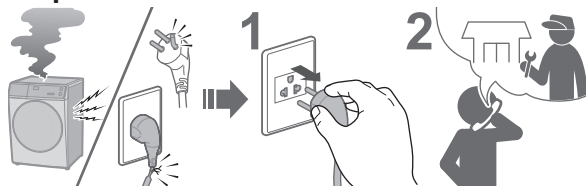


#### Do not use.

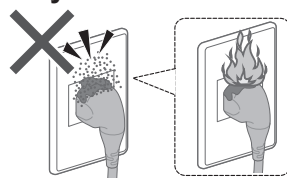


- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

**In case of failure or damaged power cord, stop use and ask the electrical technician.**



**Accumulated dust may cause fire.**



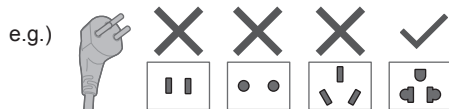
**Securely insert the ground prong.  
Ask the electrical technician for a new socket.**



**Wipe the power plug periodically.**



**Use a socket appropriate for this appliance.**



- The plug shape, socket shape and rating requirement vary with the region.

**Keep away from flammable materials.**



## May cause failure

**Do not disassemble, repair or modify it by yourself.**



**When using the “Panasonic SmartApp+” app**  
(Cause of malfunction due to radio waves from the appliance) V105FR1 V10FR1 V10FC1 V90FR1

- Keep at least 15 cm away from the mounting part of the cardiac pacemaker.
- Keep away from medical equipment and automatic control equipment (automatic doors, fire alarms, etc.).

# Safety Precautions (continued)



## WARNING

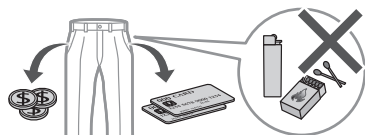
### May cause fire (For safety use of the drying feature)

#### Do not dry items soiled with flammable materials.



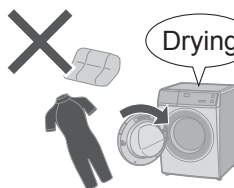
- Items that have been soiled with substances such as cooking oil, acetone, alcohol, petrol, kerosene, spot removers, turpentine, waxes, wax removers and cosmetic oils must not be dried in the appliance even after having been washed.

#### Empty all pockets.



- Make sure that no objects are left in any of the pockets. Pay particular attention to cigarette lighters and matches. They may cause fire.

#### Do not dry items made of rubber, etc.



- 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.
- Do not dry unwashed items in the appliance.

#### The lint must not be allowed to accumulate around the appliance.



#### Observe the following.

- 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.
- The appliance is not to be used if industrial chemicals have been used for cleaning.
- 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.



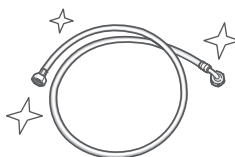
## CAUTION

### May cause water leakage

Turn off the water faucet.



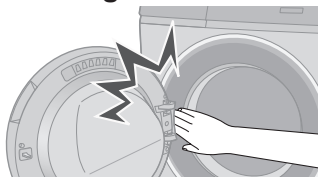
Use new hose-sets.



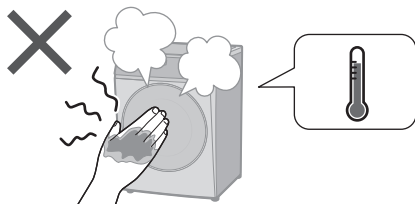
- New hose-sets supplied with the appliance are to be used and old hose-sets should not be reused.

### May cause injury

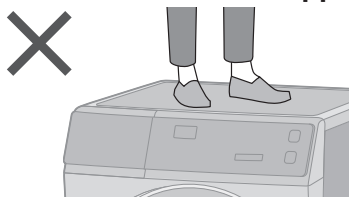
Be careful not to get your fingers caught.



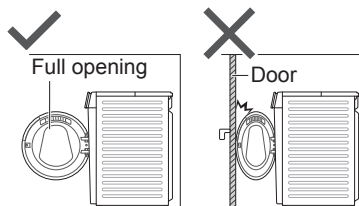
Do not touch when it is hot.



Do not climb on the appliance.



Install the appliance correctly.



- 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.

■ For maximum mass of dry cloth and pressure of tap water, see P. 68.

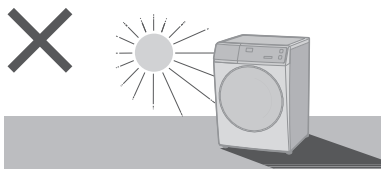
# Safety Precautions (continued)



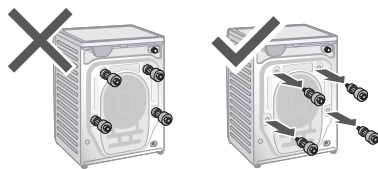
## CAUTION

### May cause failure

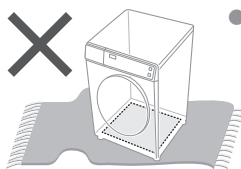
**Keep away from heat and direct sunlight.**



**Remove anchor bolts before operation.**

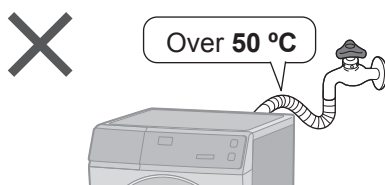


**Do not obstruct.**

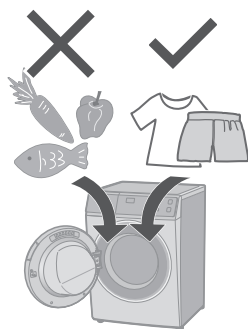


- Do not obstruct the openings of the bottom face with carpet, etc.

**Do not use hot water.**



**For machine-washable items only.**



- 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 laundrettes.

**Do not wash excessively oily clothes.**



**Follow the instructions.**

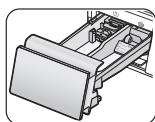


- Fabric softeners, or similar products, should be used as specified by the fabric softener instructions.

# Checking Your Washing Machine

## Part names

Detergent drawer (P. 12)



Control panel  
(P. 10)

Do not block the  
exhaust port.

Door

Drum

Hinge

Door seal

Adjustable feet  
(P. 45)

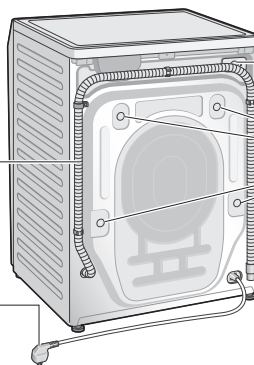
Drain filter cover  
(P. 34)

Drain hose  
(P. 46, 47)

Water inlet (P. 47)

Anchor bolts  
(P. 45)

Power cord and plug\*  
\*The plug shape varies  
with the region.



## Accessories

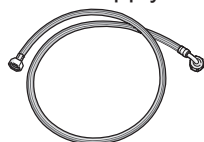
☐ Elbow (1) (P. 47)



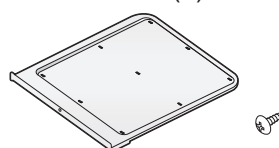
☐ Cover caps (4) (P. 45)



☐ Water supply hose (1) (P. 46, 47)



☐ Bottom cover (1) / Screw (1) (P. 44)

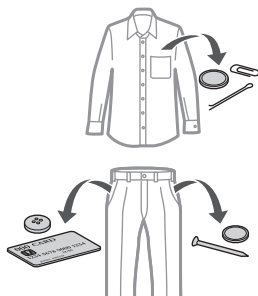


# Before Washing

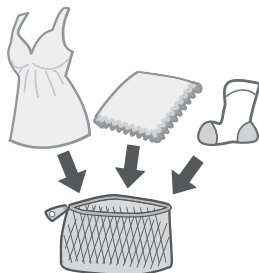
## Preparing laundry

### Before put clothes in drum

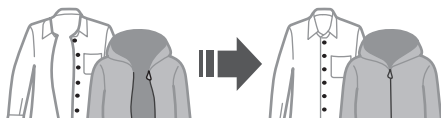
- Remove foreign objects.



- Use laundry nets for delicates and small items.



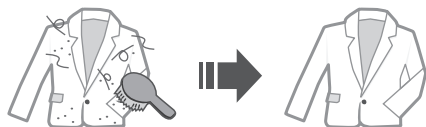
### Pre-laundry check



Reverse



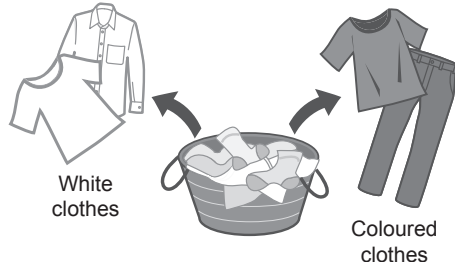
Clothes likely to pill



- Observe care labels.



- Wash separately.



- Pretreat for heavily stains.



#### NOTE

- “Stain Master+” programs (P. 17) are recommended for removing stains.

## Cannot wash or dry

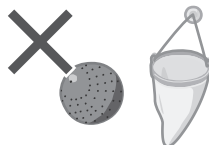
### Cannot wash or dry



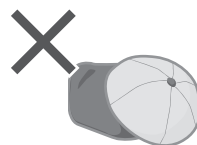
Leather / fur



Silk, rayon and cupro  
(Blended fabric)



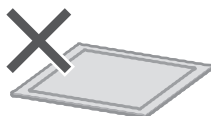
Commercially  
available washing aids



Cap with hard  
core materials



Cushion, Pillow, etc.



Urethane / rubber  
backed or thick mats

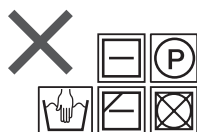


Paper diapers

### Others ...

- Wrinkled and embossed articles
- Crepe fabric
- Deformable clothing (blazers, ties, dresses, etc.)
- Velvet

### Cannot dry



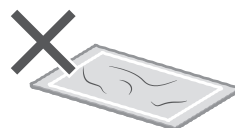
Any of the above  
marks



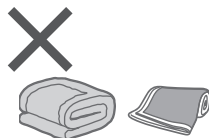
Woollen clothing



Tights or pantyhose



Mats and other  
items with hair of  
pets attached



Quilts



Starched clothing



Clothing with laces  
or embroidery, new  
synthetic fibres, etc.

### NOTE

- May cause clothing deformation, damage and harm or malfunction to the appliance.

# Control Panel

● Images in these instructions are of the NA-V105FR1, unless otherwise indicated.

## Display

Remaining time



Error display (P. 41, 42, 54)



Water temperature

Spin speed

"My Favorite" program lamp (P. 49)



ECONAVI lamp (P. 20)

Process

- Wash
- Rinse
- Spin
- Dry Assist

Add Wash lamp:  
You can add clothes while lit. (P. 14)

Optional function lamp

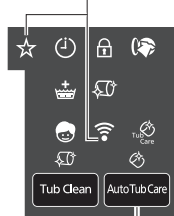
- (P. 24)
- (P. 33)
- (P. 25)
- (P. 27)
- (P. 52)
- (P. 26)

Lock

- The door is locked
- The door and buttons are all locked (Child Lock) (P. 30)

## ■ NA-V10FC1 / NA-V95FC1 / NA-V90FC1

NA-V10FC1 only

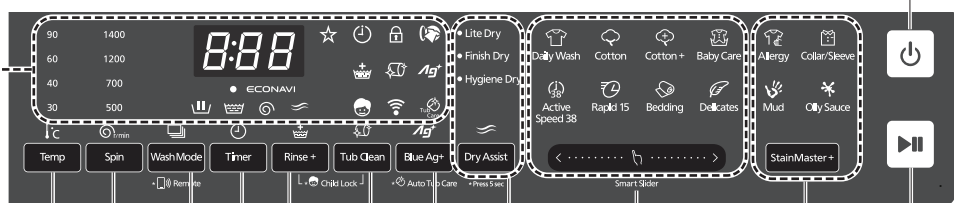


AutoTub Care Auto Tub Care (P. 26)

# Control buttons

■ NA-V105FR1 / NA-V10FR1 / NA-V90FR1

Power button



Program selection  
slider (P. 16)

Stain Master+  
(P. 17)

Start/Pause  
button

Dry Assist Dry Assist (P. 28)

Blue Ag+ (P. 27) — Press & hold 5 sec:  
Auto Tub Care (P. 26)

Tub Clean (P. 33) — Press & hold 5 sec at the  
same time:  
Child Lock (P. 30)

Rinse+ (P. 25)

Timer (P. 24)

Wash Mode (P. 23) — Press & hold 5 sec:  
Remote (P. 52)

Spin (P. 23)

Temp (P. 22)

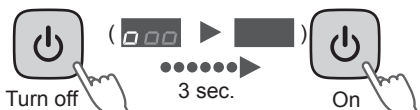
## Touch operation

- If water, detergent or softener gets on, turn off and wipe off with a towel etc. immediately. (Cause of malfunction)

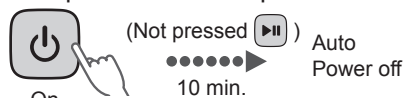


### NOTE

- Turn off back on



- No operation auto power off



- In case of a power failure

When the power recovers, operation resumes from where it stopped. (Auto Restart)

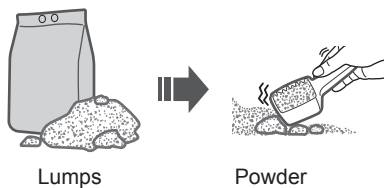
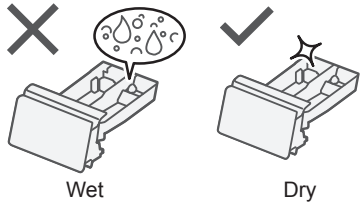
# Detergent

● Follow the instructions on each package.

## Detergent

Use a low foam detergent.

● To prevent powder detergent from remaining in the detergent drawer:



## Detergent

Powder detergent

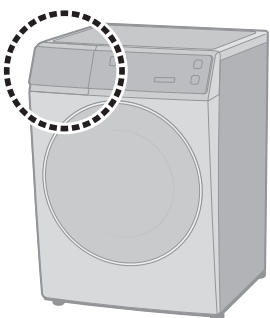
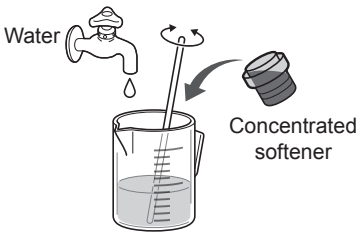
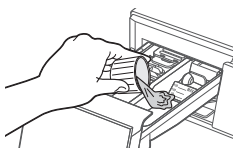
Liquid detergent



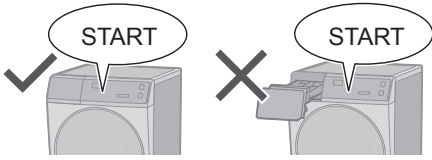
Bleach



## Fabric softener

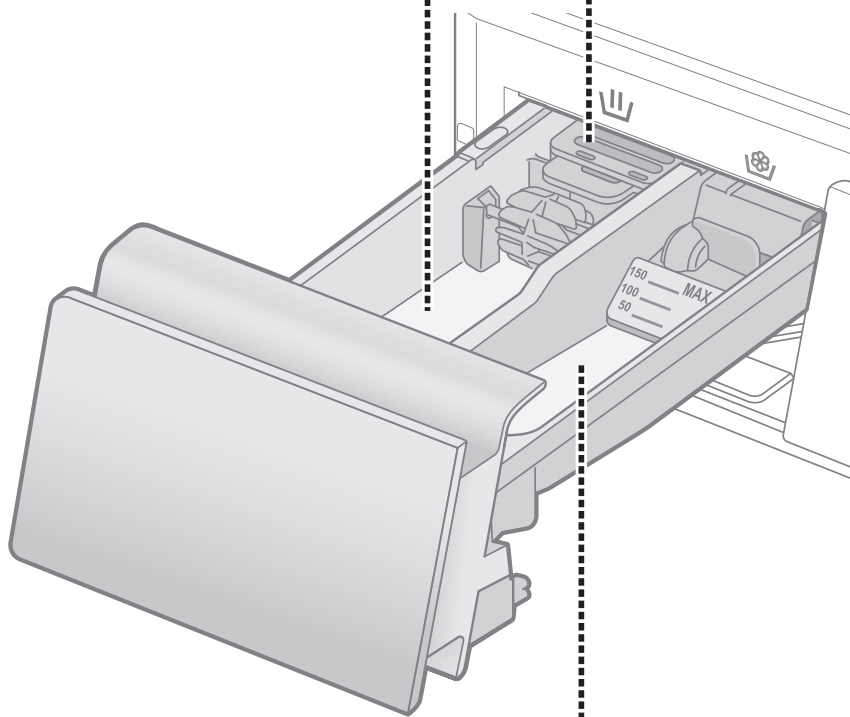


NOTE



**Ag+ case (P. 27, 33)**

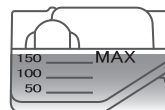
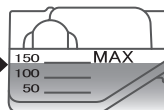
V105FR1 V10FR1 V90FR1



 **Fabric softener**

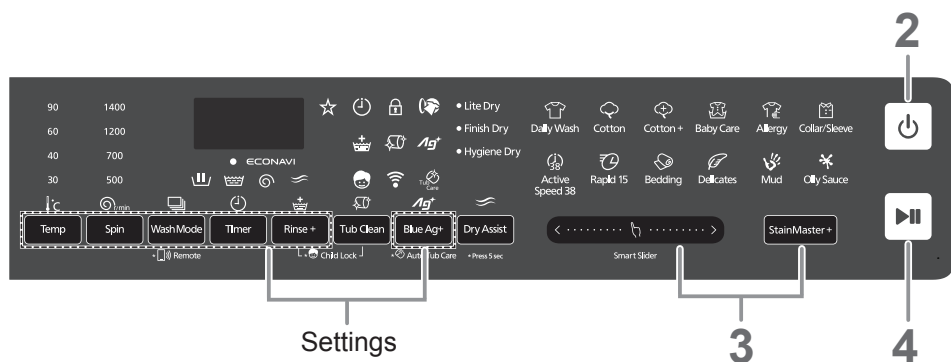


Max. 150 ml



# Washing

## Basic Method

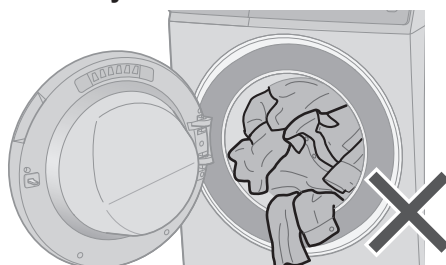


### NOTE

■ Do not let laundry get caught in the door.



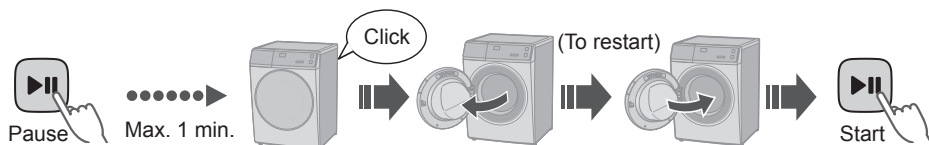
■ Do not overfill the drum with laundry.



■ To open the door during operation

● During washing

(You can add clothes when lit.)

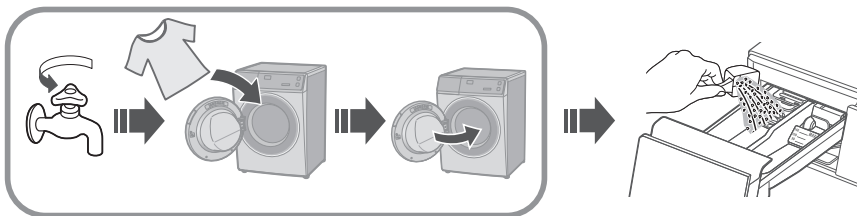


### NOTE

● Door does not open ➡ (P. 36)



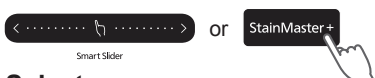
1



2



3



**Select a program.** (P. 16)

■ **Changing the settings.**

## Settings

|                   |                                                           |                                                                             |                  |
|-------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------|------------------|
| <b>Temp</b>       | <b>Spin</b>                                               | <b>Wash Mode</b>                                                            | <b>Timer</b>     |
| Temp<br>(P. 22)   | Spin<br>(P. 23)                                           | Wash Mode<br>(P. 23)                                                        | Timer<br>(P. 24) |
| <b>Rinse +</b>    | <b>Auto Tub Care</b>                                      | <b>Blue Ag+</b>                                                             |                  |
| Rinse+<br>(P. 25) | Auto Tub<br>Care<br>V10FC1<br>V95FC1<br>V90FC1<br>(P. 26) | Blue Ag+;<br>Auto Tub<br>Care<br>V105FR1<br>V10FR1<br>V90FR1<br>(P. 26, 27) |                  |

4



Measures the  
amount of laundry



(30 sec.)

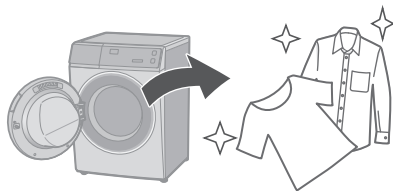


Displays the time required  
(recalculated)

(e.g.)



5



# Program List

| Program                                                                                                    | Description                                                                                                                                                                                             | Max load (kg) |                   |        |                   | Total time |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|--------|-------------------|------------|
|                                                                                                            |                                                                                                                                                                                                         | V105FR1       | V10FR1/<br>V10FC1 | V95FC1 | V90FR1/<br>V90FC1 |            |
|  <b>Daily Wash</b>        | <ul style="list-style-type: none"> <li>Everyday clothes (Quicker than "Cotton" program)</li> </ul>                     | 10.5          | 10.0              | 9.5    | 9.0               | 1:30       |
|  <b>Cotton</b>            | <ul style="list-style-type: none"> <li>Everyday clothes</li> </ul>                                                     | 10.5          | 10.0              | 9.5    | 9.0               | 2:54       |
|  <b>Cotton +</b>          | <ul style="list-style-type: none"> <li>Gentle wash with extra time</li> </ul>                                          | 10.5          | 10.0              | 9.5    | 9.0               | 3:00       |
|  <b>Baby Care</b>         | <ul style="list-style-type: none"> <li>Clothes for babies &amp; sensitive skin</li> <li>Rinsing thoroughly</li> </ul>  | 5.0           |                   |        |                   | 2:20       |
|  <b>Active Speed 38</b> | <ul style="list-style-type: none"> <li>Small loads</li> </ul>                                                        | 5.0           |                   |        |                   | 0:38       |
|  <b>Rapid 15</b>        | <ul style="list-style-type: none"> <li>Small loads of lightly soiled</li> </ul>                                      | 2.0           |                   |        |                   | 0:15       |

- **Total time is approximate** (When the standard water supply rate is 15 L / min).  
For each program's default water temperature.

| Program                                                                                                     | Description                                                                                                                                              | Max load (kg)            |                   |        |                   | Total time |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------|--------|-------------------|------------|
|                                                                                                             |                                                                                                                                                          | V105FR1                  | V10FR1/<br>V10FC1 | V95FC1 | V90FR1/<br>V90FC1 |            |
|  <b>Bedding</b>             | <ul style="list-style-type: none"> <li>Large items</li> </ul>           | 3.0                      |                   |        |                   | 1:30       |
|  <b>Delicates</b>           | <ul style="list-style-type: none"> <li>Washing gently</li> </ul>        | 2.0                      |                   |        |                   | 0:50       |
| <b>StainMaster +</b>                                                                                        |                                                                                                                                                          | For the following stains |                   |        |                   |            |
|  <b>Allergy</b>            | <ul style="list-style-type: none"> <li>For ticks and pollen</li> </ul>  | 10.5                     | 10.0              | 9.5    | 9.0               | 3:15       |
|  <b>Collar/<br/>Sleeve</b> |                                                                         | 10.5                     | 10.0              | 9.5    | 9.0               | 3:10       |
|  <b>Mud</b>                |                                                                         | 10.5                     | 10.0              | 9.5    | 9.0               | 3:30       |
|  <b>Oily<br/>Sauce</b>    |                                                                        | 10.5                     | 10.0              | 9.5    | 9.0               | 3:00       |
|  <b>Tub Clean</b>         | <ul style="list-style-type: none"> <li>Cleaning the drum.</li> </ul>  | None                     |                   |        |                   | 3:45       |

# Details of Programs

| <div>Settings</div> <div>Program</div>                                                                   | Auto setting |              |  |
|----------------------------------------------------------------------------------------------------------|--------------|--------------|--|
|                                                                                                          | Temp (°C)    | Spin (r/min) |  |
|  <b>Daily Wash</b>      | 40           | 1200         |  |
|  <b>Cotton</b>          | 40           | 1200         |  |
|  <b>Cotton +</b>        | 60           | 1400         |  |
|  <b>Baby Care</b>       | 40           | 1400         |  |
|  <b>Active Speed 38</b> | 40           | 1200         |  |
|  <b>Rapid 15</b>        | Cold         | 1200         |  |
|  <b>Bedding</b>         | Cold         | 700          |  |
|  <b>Delicates</b>       | 30           | 500          |  |
|  <b>Allergy</b>         | 90           | 1200         |  |
|  <b>Collar/Sleeve</b>   | 40           | 1200         |  |
|  <b>Mud</b>             | 40           | 1200         |  |
|  <b>Oily Sauce</b>     | 40           | 1200         |  |
|  <b>Tub Clean</b>     | 40           | 1200         |  |

## NOTE

- For normally soiled laundry at the rated capacity, we recommend using the “Cotton +, 60 °C, 1400 r/min” which is tested in accordance with IEC 60456 for the energy and water efficiency aspects.
- Actual water temperature may differ from the declared cycle temperature.
- These results depend on water pressure, water hardness, water inlet temperature, room temperature, type and amount of load, degree of soiling, utilized detergent, fluctuations in the main electricity supply and chosen additional options.

| Setting range    |                                                                                                            | Optional functions |       |        |          |               |
|------------------|------------------------------------------------------------------------------------------------------------|--------------------|-------|--------|----------|---------------|
| Temp (°C)        | Spin (r/min)                                                                                               | Wash Mode          | Timer | Rinse+ | Blue Ag+ | Auto Tub Care |
| Cold, 30, 40, 60 |  , 500, 700, 1200, 1400   | ✓                  | ✓     | ✓      | ✓        | ✓             |
| Cold, 30, 40, 60 |  , 500, 700, 1200, 1400   | ✓                  | ✓     | ✓      | ✓        | ✓             |
| Cold, 30, 40, 60 |  , 500, 700, 1200, 1400   | ✓                  | ✓     | ✓      | ✓        | ✓             |
| Cold, 30, 40, 60 |  , 500, 700, 1200, 1400   | ✓                  | ✓     | ✓      | ✓        | ✓             |
| Cold, 30, 40     |  , 500, 700, 1200, 1400   | ✓                  | ✓     | —      | ✓        | ✓             |
| Cold             |  , 500, 700, 1200         | —                  | ✓     | —      | —        | —             |
| Cold, 30         |  , 500, 700               | ✓                  | ✓     | ✓      | ✓        | —             |
| Cold, 30, 40     |  , 500                    | ✓                  | —     | ✓      | ✓        | —             |
| 60, 90           |  , 500, 700, 1200         | —                  | ✓     | ✓      | —        | ✓             |
| 40               |  , 500, 700, 1200, 1400   | ✓                  | ✓     | ✓      | ✓        | ✓             |
| 40               |  , 500, 700, 1200, 1400   | ✓                  | ✓     | ✓      | ✓        | ✓             |
| 40               |  , 500, 700, 1200, 1400 | ✓                  | ✓     | ✓      | ✓        | ✓             |
| 40               | 1200                                                                                                       | —                  | —     | —      | —        | —             |

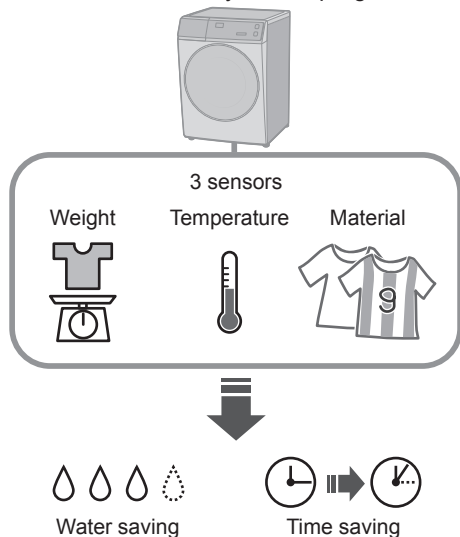
 : Drain only (No spin)

Blue Ag+:  
V105FR1 / V10FR1 / V90FR1

# Washing Tips

## ECONAVI

- “Cotton” and “Daily Wash” programs



## ■ Lamp indications



Detecting



ECONAVI enabled



ECONAVI disabled

## Delicates

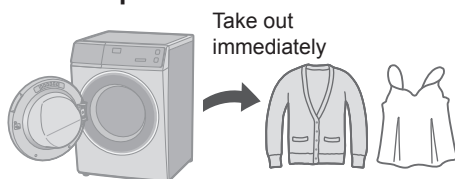
### ■ When washing

- To rinse fully, use the “Rinse+” function. (P. 25)

#### NOTE



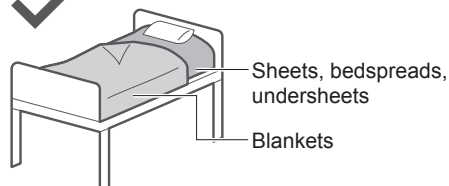
### ■ After operation ends



## Bedding

### ■ Washable items

- (Wash) ● (Handwash)
- 100 % cotton or 100 % synthetic



### ■ Not washable items



Electric blankets



Wool



Silk

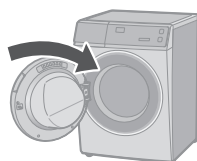


Long pile

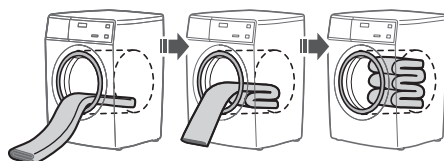
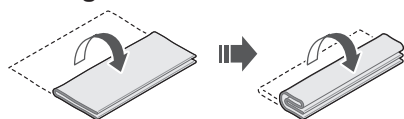


Fake fur

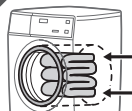
### NOTE



### ■ Putting blankets into the drum



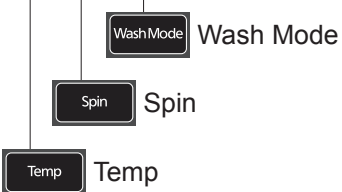
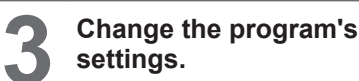
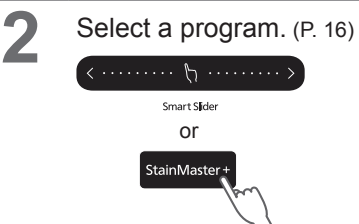
### NOTE



# Changing Program Settings

## ■ Preparing

- Sort the laundry and put it into the drum. (P. 8)
- Add the detergent. (P. 12)



- Available options and setting ranges are different depending on the program. (P. 18)
- An alarm sounds if you select an option that is unavailable.



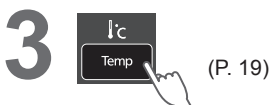
## Temp

Change the washing temperature.



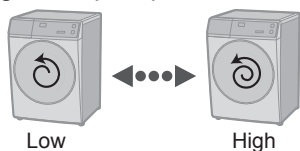
## ■ Setting guide

| Low                                                                | High                                                               |
|--------------------------------------------------------------------|--------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>● Colours</li> </ul>        | <ul style="list-style-type: none"> <li>● White</li> </ul>          |
| <ul style="list-style-type: none"> <li>● Lightly Soiled</li> </ul> | <ul style="list-style-type: none"> <li>● Heavily Soiled</li> </ul> |
| <ul style="list-style-type: none"> <li>● Easily shrinks</li> </ul> | <ul style="list-style-type: none"> <li>● Cotton</li> </ul>         |



## r/min Spin

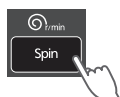
Change the spin speed.



### ■ Setting guide

|                                                                                                            |                                                                                                               |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <br>Low                    | <br>High                     |
| ● To reduce wrinkling<br> | ● To dry more thoroughly<br> |

# 3



(P. 19)

### ■ To change the setting while washing



## Wash Mode

Select a combination of wash, rinse and spin.



# 3



|                                                                                      |                |
|--------------------------------------------------------------------------------------|----------------|
|  *1 | Wash           |
|  *2 | Rinse          |
|  *2 | Spin           |
|     | Wash and rinse |
|     | Wash and spin  |
|  *2 | Rinse and spin |

\*1 Water is drained after wash process.

\*2 Drains first if there is water in the drum.

# Changing Program Settings (continued)

## ■ Preparing

- Sort the laundry and put it into the drum. (P. 8)
- Add the detergent. (P. 12)



**2** Select a program. (P. 16)



Smart Slider

or



**3** Change the program's settings.



Timer



Rinse+

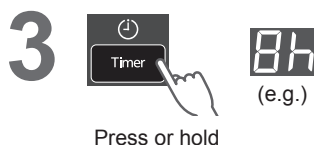
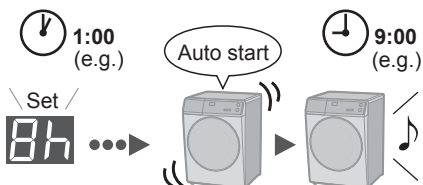


- Available options and setting ranges are different depending on the program. (P. 18)
- An alarm sounds if you select an option that is unavailable.

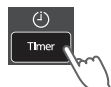


## ⌚ Timer

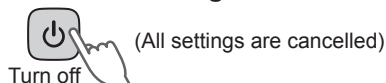
Set how many hours later to finish operation. (Up to 24 hours)



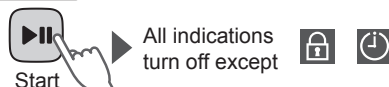
## ■ To check a preset time



## ■ To cancel settings



## NOTE



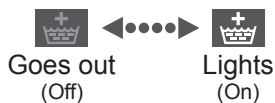
- Not available: P. 19

## Rinse+

Add an extra rinse.



3



### ■ To change the setting while washing



1



2



3



# Changing Program Settings (continued)

## ■ Preparing

- Sort the laundry and put it into the drum. (P. 8)
- Add the detergent. (P. 12)



**2** Select a program. (P. 16)



Smart Slider

or



**3** Change the program's settings.



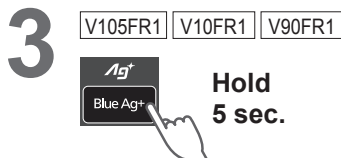
Blue Ag+  
Auto Tub Care

- Available options and setting ranges are different depending on the program. (P. 18)
- An alarm sounds if you select an option that is unavailable.

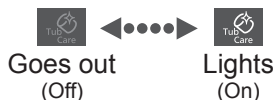


## Auto Tub Care

Add tub cleaning process.



V10FC1 V95FC1 V90FC1



### NOTE

- The setting is memorized.

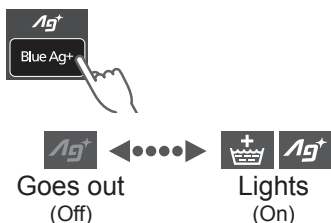
## Ag<sup>+</sup> Blue Ag<sup>+</sup>

V105FR1 V10FR1 V90FR1

Bacteria elimination function (Max. 3.0 kg).



# 3



### ■ Service life for Ag<sup>+</sup> case

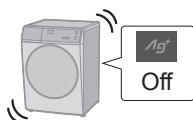
- “Blue Ag<sup>+</sup>” works for about 300 to 350 times (for about 7 years if used once a week).
- Replace the case when the contents are decreased.



- Replace  
⇒ (P. 33)



- Wash without “Ag<sup>+</sup>”



### NOTE

- Do not use the water for other purposes.



Drinking



Cooking



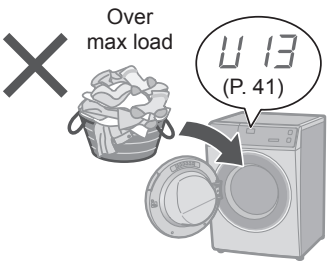
- The kind of clothes, detergent, softener, and water hardness may affect the result.
- Stop use if itchy, etc.

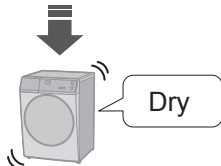


# Dry Assist (Dry only)

This function cannot be set with other washing programs at the same time.

- 1  On
- 2  Dry Assist
- 3  Start



| Dry Assist    | Indicator (min) | Description                                                                                                                                                                                                                                                                                                                                                                    | Max load (kg) |
|---------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| ● Lite Dry    | 120             | After spin at 1400 r/min<br><br>e.g.) 5 shirts                                                                                                                                                                                                                                                | 1.0           |
|               | 180             |                                                                                                                                                                                                                                                                                                                                                                                |               |
| ● Finish Dry  | 30              | Additional drying of clothes that are not dry enough<br>                                                                                                                                                                                                                                     | 2.0           |
|               | 120             | After hang-dry<br><br><br>e.g.) 1 long pants, 1 shorts, 1 T-shirt, 1 underwear, 1 towel                                                                                                                  |               |
|               | 180             |                                                                                                                                                                                                                                                                                                                                                                                |               |
| ● Hygiene Dry | 120             | After spin at 1400 r/min<br>Bacteria Elimination<br><br><br><br>e.g.) 1 shirt, 2 children's trousers, 1 pair of socks | 0.5           |
|               | 180             |                                                                                                                                                                                                                                                                                                                                                                                |               |

# NOTE

- The door is locked during drying.



- To open the door



Pause



Start cooling  
9 to 24 min.



- After drying, the drum will rotate every 5 minutes for 40 seconds to prevent wrinkles caused by leaving the clothes unattended.



Approx. 2 hours



- To open the door:



Turn off

or



Pause

## Symptoms

- Drying is insufficient
- Drying is uneven



## Tips for nice finish

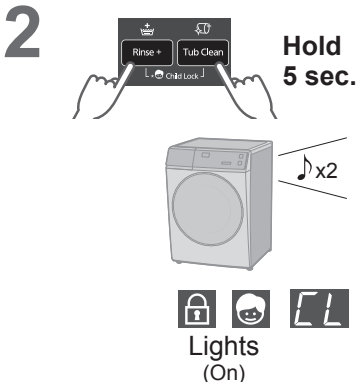
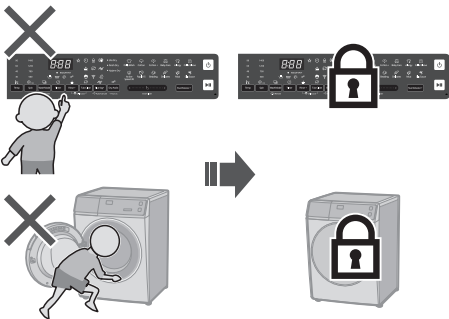
- Reduce clothing amount.



- Classify clothing. (P. 28)
- Adjust drying time to get your expected drying performance.
- Use "Finish Dry" 30 min for additional drying.

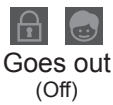
# Changing Appliance Settings

## Setting the Child Lock

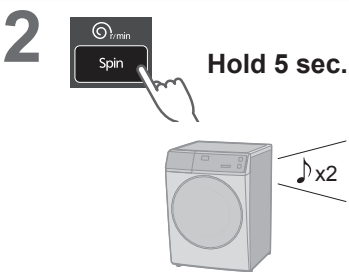


■ **To cancel:**

Same procedure



## Cancelling the buzzer



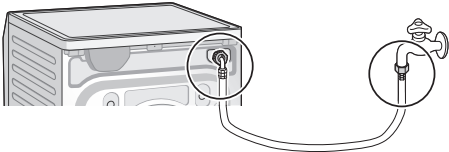
■ **To reset:**

Same procedure

# Maintenance

## Water supply filter

If water does not flow smoothly



1



Empty

2



On

3

**Select** 

Daily Wash

4

**1 min.** 

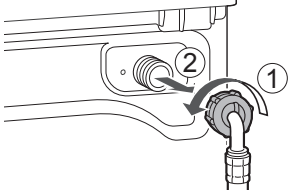
Start Turn off

5

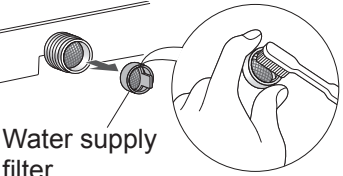


Remove and clean the filter

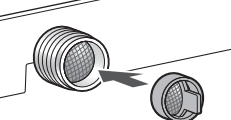
6



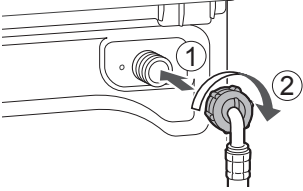
7

**Water supply filter**

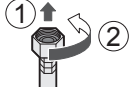
8



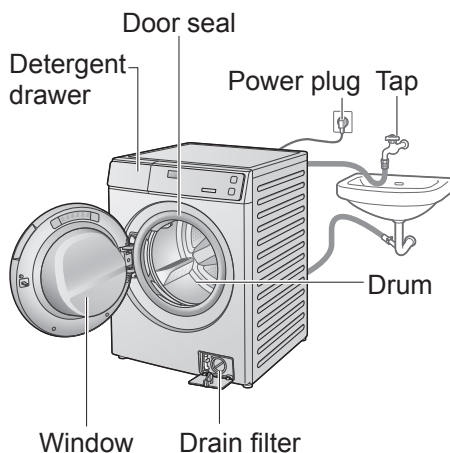
9



10



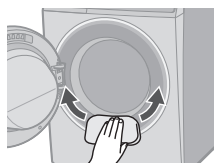
# Maintenance (continued)



## Appliance



Door seal



For heavy soil

Mild kitchen detergent

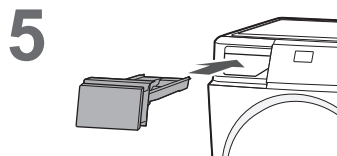
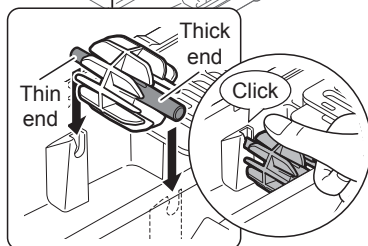
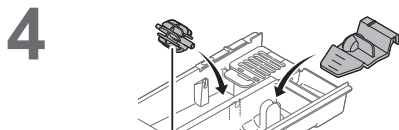
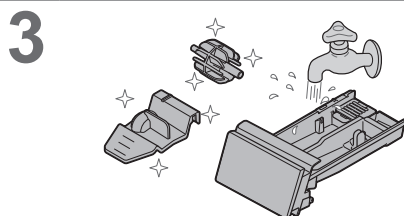
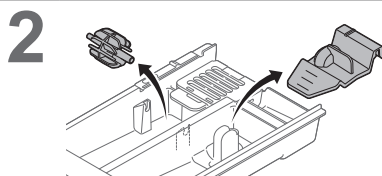
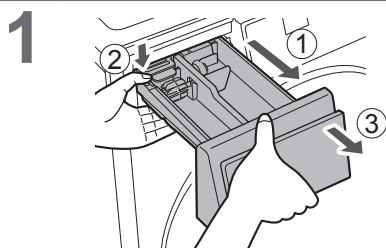


NOTE



- Do not use gritty cleaners or thinners, or products containing alcohol or paraffin oil.

## Detergent drawer

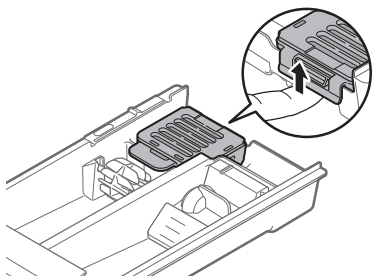


## If the contents are decreased

### ■ Change Ag+ case

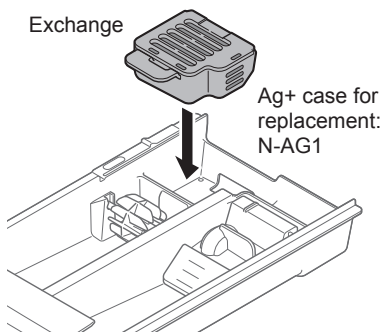
V105FR1 V10FR1 V90FR1

1



2

Exchange



#### NOTE

- You cannot open Ag+ case.

## Drum

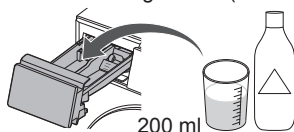
Once a month or if  flashes  
<Tub Clean>

1



2

Whitening bleach (chlorine bleach)



3



No clothing



4



5



Approx.  
3:45



#### NOTE

- If the “Tub Clean” program is not run, the indicator  goes off when other program is run 3 times.

# Maintenance (continued)

## Drain filter

Once a month

Be sure to drain water in the drum before this procedure.



### CAUTION



Hot water  
(possibly scalding water)

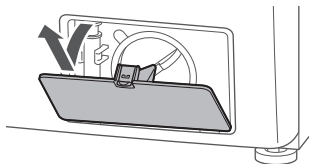


1

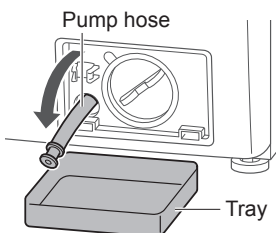


Turn off

2



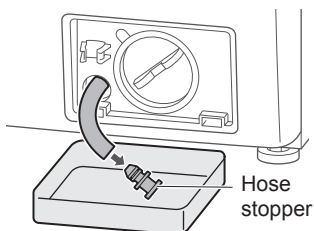
3



Pump hose

Tray

4

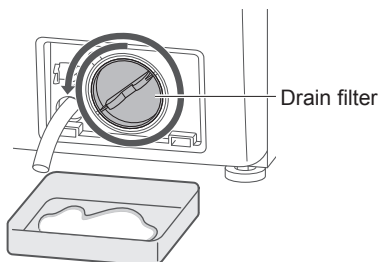


Hose stopper

5

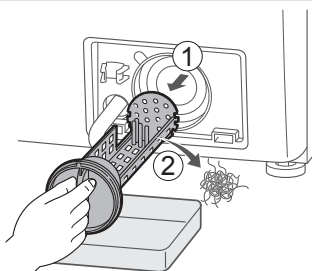


6



Drain filter

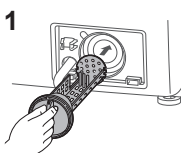
7



8

Replace

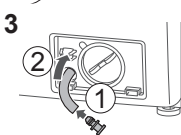
1



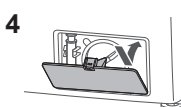
2 Until it is in place



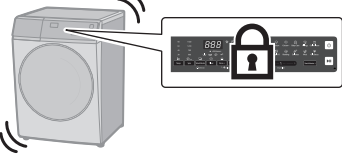
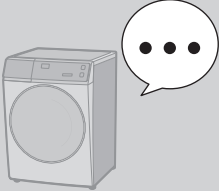
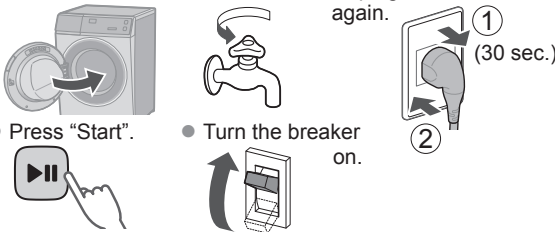
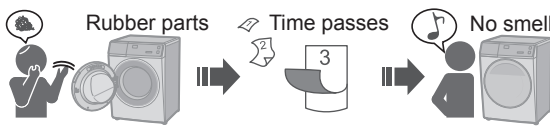
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4

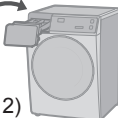
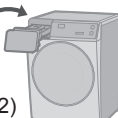
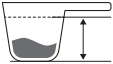
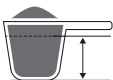
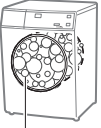


# Troubleshooting

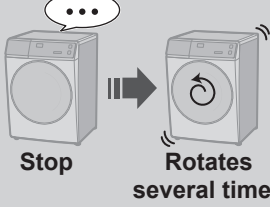
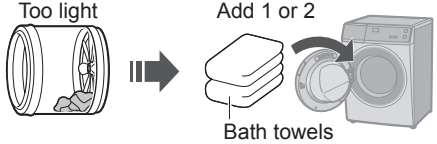
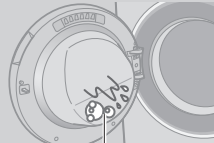
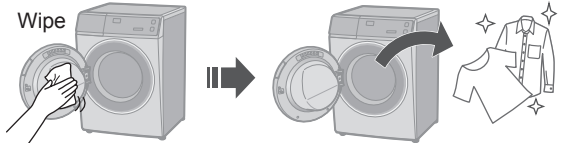
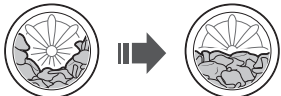
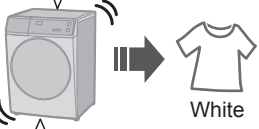
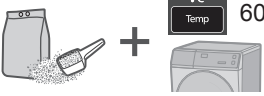
|           | Symptoms                                                                                                   | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main unit | <p>Touch the buttons</p>  | <p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> <li>● During an operation</li> </ul>  <p><input type="checkbox"/> Try</p> <ul style="list-style-type: none"> <li>● Child Lock (P. 30)</li> </ul>                                                                                                                 |
|           | <p>No operation</p>       | <p><input type="checkbox"/> Check</p> <ul style="list-style-type: none"> <li>● Power cut</li> <li>● Timer</li> </ul>  <p><input type="checkbox"/> Try</p> <ul style="list-style-type: none"> <li>● Close the door.</li> <li>● Turn on.</li> <li>● Unplug and insert again.</li> <li>● Press "Start".</li> <li>● Turn the breaker on.</li> </ul>  |
|           | <p>Odour of rubber</p>  | <p><input type="checkbox"/> Possible cause</p>  <p><input type="checkbox"/> Try</p> <p><b>Tub Clean</b> (P. 33)</p>                                                                                                                                                                                                                           |

# Troubleshooting (continued)

|           | Symptoms                                                                  | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main unit |                                                                           | <p>□ Possible cause</p> <ul style="list-style-type: none"> <li>● During an operation (washing or drying)</li> </ul> <div> </div> <p>Door is locked.<br/>To open the door:</p> <ul style="list-style-type: none"> <li>• washing (P. 14)</li> <li>• drying (P. 29)</li> </ul> <p>□ Check</p> <ul style="list-style-type: none"> <li>● Temperature</li> </ul> <div> </div> <p>High</p> <ul style="list-style-type: none"> <li>● Water level</li> </ul> <div> </div> <p>High</p> |
|           | <p><b>Door does not open</b></p> <div> </div> | <p>□ Try</p> <ul style="list-style-type: none"> <li>● Child Lock (P. 30)</li> </ul> <div> </div> <ul style="list-style-type: none"> <li>● During an operation</li> </ul> <div> </div> <p>NOTE</p> <div> </div>                                                                                                                                                                                                                                                          |

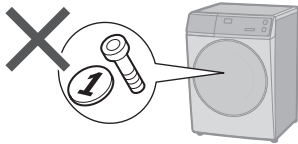
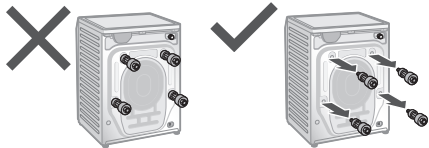
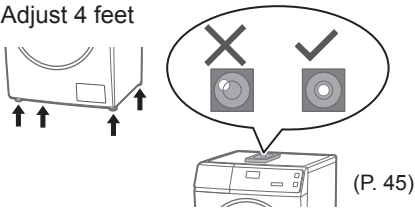
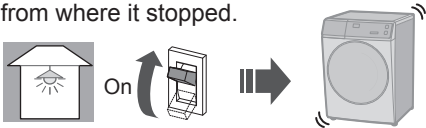
|                    | Symptoms                                                                                                                          | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detergent and foam | <b>After washing</b><br>                         | <input type="checkbox"/> Check<br> <br> <br>(P. 12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                    |  Foam                                            | <input type="checkbox"/> Possible cause<br><ul style="list-style-type: none"> <li>• The amount of foam varies.</li> <li>• Temperature</li> <li>• Water level</li> <li>• Water softness</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                    | <b>Not enough</b><br>                            | <input type="checkbox"/> Check<br><ul style="list-style-type: none"> <li>• Powder detergent</li> </ul>  <br> <br>(P. 12)<br><ul style="list-style-type: none"> <li>• Too little detergent</li> <li>• Low foam detergent</li> <li>• Heavily soiled</li> <li>• Load too large</li> </ul>     |
|                    | <b>Too much</b><br>                            | <input type="checkbox"/> Check<br><ul style="list-style-type: none"> <li>• Too much detergent</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Wash               | <b>During a wash</b><br> <b>Water drainage</b> | <input type="checkbox"/> Possible cause<br><div> Excess foam  Foam </div> <div> Foilam detection function  Auto drainage </div> <div> Auto water supply  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

# Troubleshooting (continued)

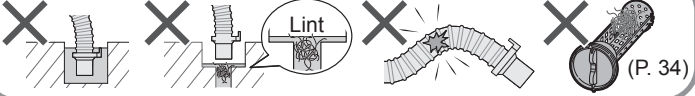
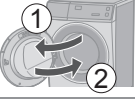
|            | Symptoms                                                                                                                                                           | Points to be checked                                                                                                                                                                                                                                                                                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rinse/Spin | <p>During the spin process</p>  <p><b>Stop</b> → <b>Rotates several times</b></p> | <p><input type="checkbox"/> Possible cause</p> <p>Unevenness</p>  <p>Auto correct → Stop → Auto correct</p> <p>Evenness</p> <p><input type="checkbox"/> Try</p> <p>Too light</p>  <p>Add 1 or 2<br/>Bath towels</p> |
|            | <p>After washing</p>  <p><b>Foam or water</b></p>                                 | <p><input type="checkbox"/> Try</p> <p>Wipe</p>                                                                                                                                                                                                                                                     |
| Laundry    | <p>Spin changes to rinse</p>  <p>Spin → Rinse</p>                                | <p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> <li>● If clothes are uneven, this appliances automatically corrects unevenness using the rinse process.</li> </ul>                                                                                                |
|            | <p>If the laundry yellows</p>  <p>Yellow</p>                                    | <p><input type="checkbox"/> Try</p> <div> <p>V105FR1 V10FR1 V90FR1</p> <p><b>Ag+</b> Off</p> </div>  <p>White</p> <div>  <p>Temp 60 °C</p> </div>   |

|       | Symptoms                                                                                                                               | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time  | <b>During a wash</b><br>Displayed time<br><br>Changes | <input type="checkbox"/> Possible cause <ul style="list-style-type: none"> <li>● Remaining time is corrected during operation.</li> </ul>  <ul style="list-style-type: none"> <li>● If the settings changed<br/> </li> <li>● If clothes are uneven<br/> </li> </ul> <p>➡ The remaining time may increase.</p> |
|       | <b>During water drainage</b><br>                      | <input type="checkbox"/> Possible cause <ul style="list-style-type: none"> <li>● This is normal.<br/>The drain pump is working.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                       |
|       | <b>During spin process</b><br>                       | <input type="checkbox"/> Possible cause <ul style="list-style-type: none"> <li>● This is normal.<br/>Anti-foam leak part is working at the exhaust port.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                              |
|       | <b>Sound of fan rotating</b><br>                    | <input type="checkbox"/> Possible cause <ul style="list-style-type: none"> <li>● This is normal.<br/>The drain pump is working.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Noise | <b>Motor emits a sound</b><br>                      | <input type="checkbox"/> Possible cause <ul style="list-style-type: none"> <li>● This is normal.<br/>The motor will make a short sound when the drum engages.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                         |

# Troubleshooting (continued)

|        | Symptoms                                                                                                                                                                                               | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Noise  | Unusual noise<br>(or vibration)                                                                                                                                                                        | <input type="checkbox"/> Check <ul style="list-style-type: none"> <li>● Metal items                </li> <li>● Anchor bolts (P. 45)                </li> <li>● Slope or an unstable surface                </li> <li>● Adjust 4 feet                </li> </ul> |
|        |                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Others | Power cut<br><br>Breaker<br>Off  | <input type="checkbox"/> Check <ul style="list-style-type: none"> <li>● When the power recovers, operation resumes from where it stopped.                </li> </ul>                                                                                                                                                                                                                                                                                                                                               |

# Error Display

| Error Display                                     | Points to be checked                                                                                 |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>U 11</div> <div>Unable to drain</div>        | <div>1 Check</div>  | <div>2</div>                   | <div>3</div>  <div>Start</div> <div>  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <div>U 12</div> <div>Door is open</div>           | <div>1</div>        | <div>2</div>  <div>Start</div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <div>U 13</div> <div>Unable to spin / dry</div>   | <div>1 Check</div>                                                                                   | <div>2</div>                   | <div>3</div>  <div>Start</div> <div> <div> <div>Uneven</div>  </div> <div> <div>Even</div>  </div> <div> <div>Unstable or inclined</div>  </div> <div> <div>Stable</div>  </div> <div> <div>Too much</div>  </div> <div> <div>Reduce</div>  </div> <div> <div>Too little</div>  </div> <div> <div>Add</div>  </div> </div> <div> <div>&lt;Dry Assist&gt;</div> <div> <div>Too wet</div>  </div> <div> <div>Spin</div>  </div> <div> <div>(1400 r/min)</div> </div> </div> |
| <div>U 14</div> <div>Unable to supply water</div> | <div>1 Check</div>                                                                                   | <div>2</div>                 | <div>3</div>  <div>Start</div> <div> <div> <div>Water outage</div>  </div> <div> <div>Turned off</div>  </div> <div> <div>Water supply filter (P. 31)</div>  </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

# Error Display (continued)

| Error Display                                             | Points to be checked                                                                                                                                                                                                                                     |                                                                                                                          |                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>U 17</div> <div>Unable to spin</div>                 | <div>1 Restart</div> <div><div></div><div>Turn off</div><div></div><div>On</div></div> | <div>2 Run "Rapid 15"</div> <div></div> | <div>● Next time:</div> <div><div></div><div></div><div> Low foam detergent</div></div> |
| <div>H</div> <div><div></div><div></div><div></div></div> | <div>1</div> <div></div>                                                                                                                                                | <div>2</div> <div></div>                | <div>3</div> <div><div></div><div></div></div>                                                                                                                           |

## ■ Information

|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Unable to open</b> | <div> <div>Hot</div>  <div>During drying (P. 29)</div> </div> <div>  <div>Hold 5 sec.</div> </div> <div> <div>Start cooling</div> <div>●●●●●▶</div> <div>9 to 24 min.</div> </div>  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

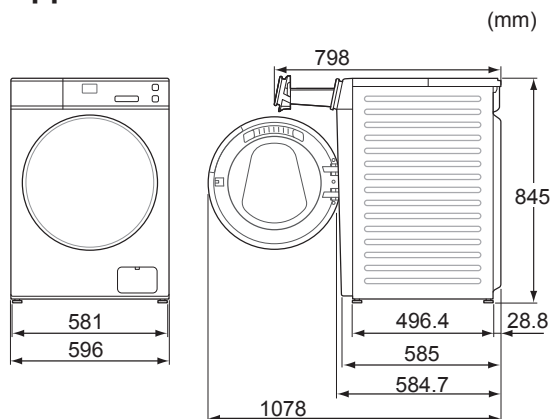
# Choosing the Right Location



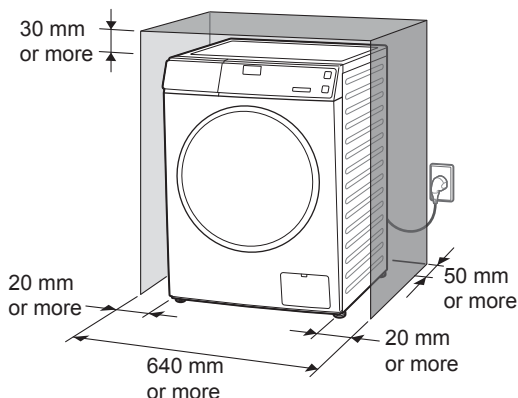
**Make sure to ask a service person for installation.**

- Do not install the appliance by yourself.
- Follow this installation method. If you do not, Panasonic will not be liable for any accidents or damages.

## Appliance dimensions

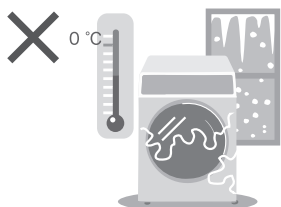
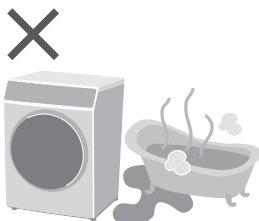
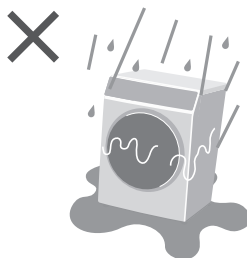


## ■ Set-in installation



- Do not let the metallic portions of the appliance come into contact with metal sinks or other appliances.

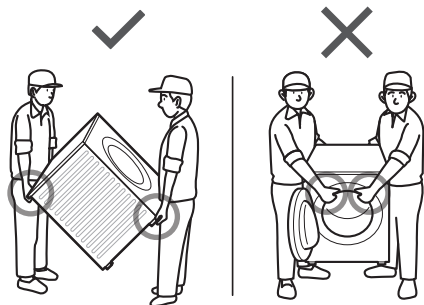
## Check the location.



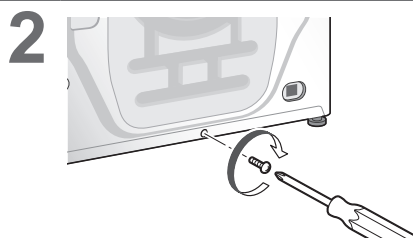
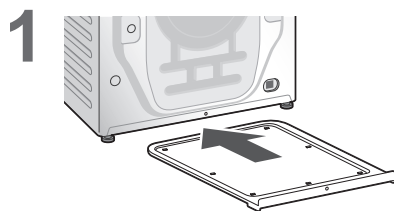
# Moving and Installing

## Carrying the appliance

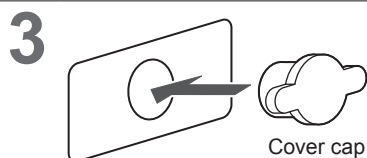
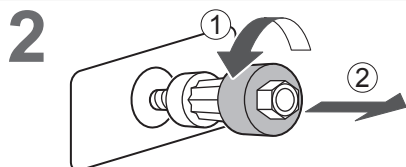
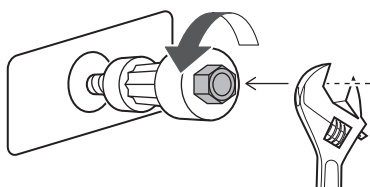
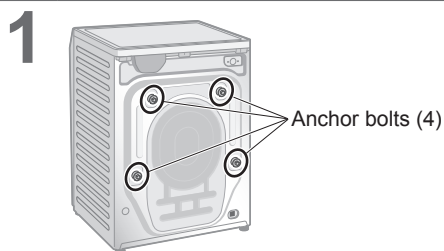
Do not do it alone.



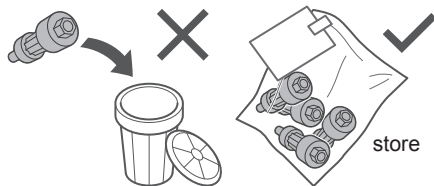
## Installation of bottom cover



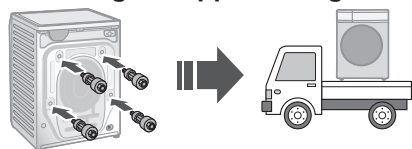
## Removing the anchor bolts



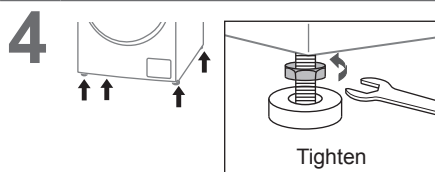
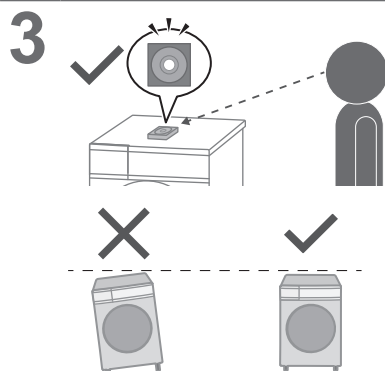
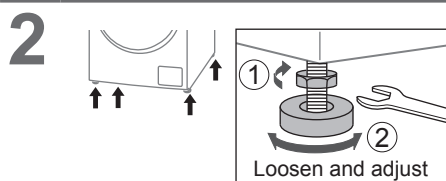
**NOTE**



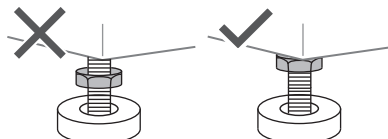
### ■ Moving the appliance again



## Levelling the appliance



**NOTE**



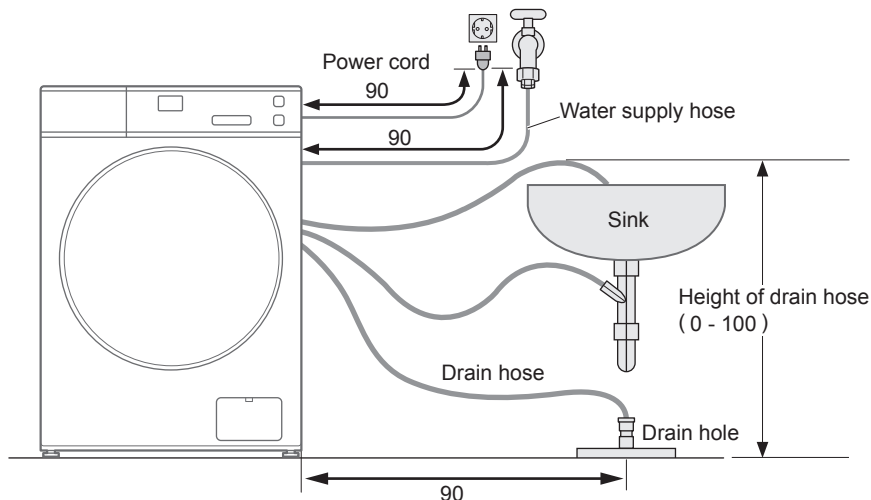
# Connecting the Hoses

Connect the hoses properly to prevent water leaks.

## Maximum connection distances for hoses and the power cord

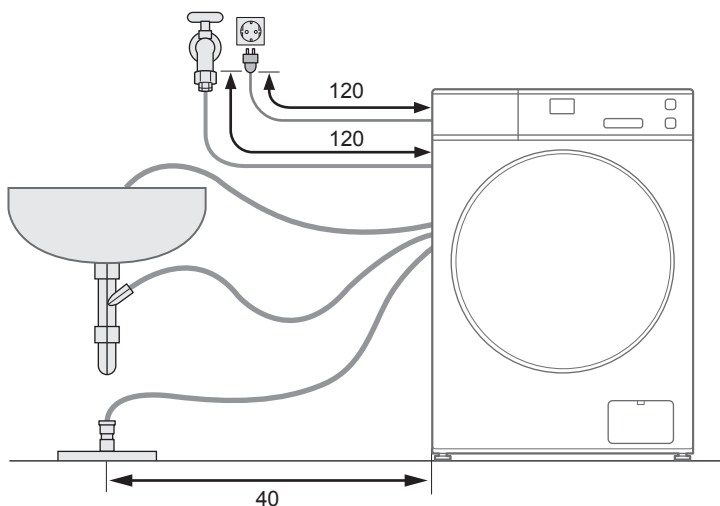
### Right side connection

(cm)



### Left side connection

(cm)



## Water supply hose

### ■ Connecting the water supply hose



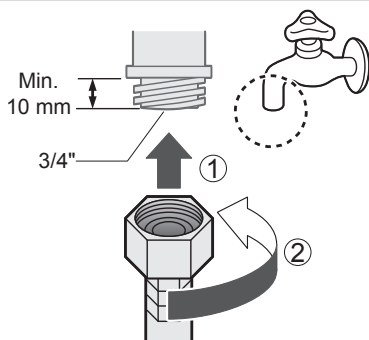
## CAUTION

- Tighten the nut firmly.
- Do not twist, squash, modify or cut the hose.

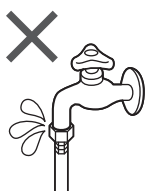
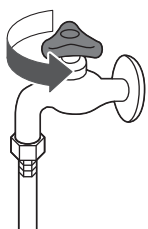
1



2



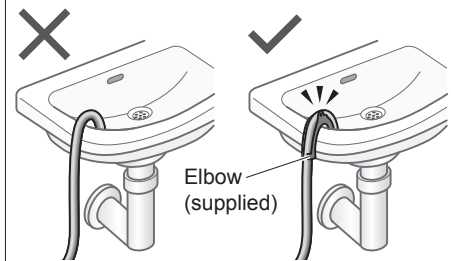
3



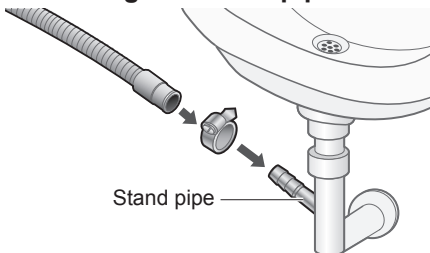
## Drain hose

### ■ Draining to a sink or wash basin

#### NOTICE



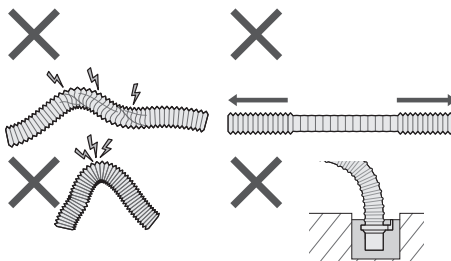
### ■ Draining to a stand pipe



### ■ Draining to a drain hole



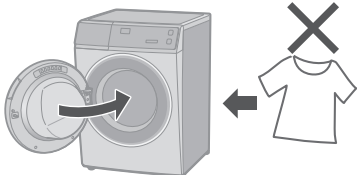
#### NOTE



1



2



3



4



Smart Slider

**Rapid 15**

5



## Checking after test run

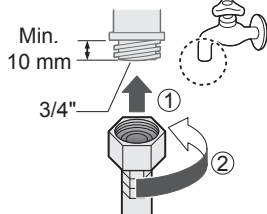
### Problem

### Causes and Measures

#### Water leaks



Connect the water supply hose properly

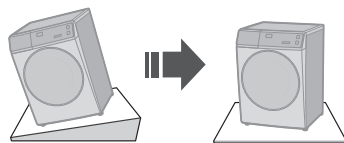


Abnormal  
sounds

- Remove the anchor bolts (P. 45)



- Install stably



#### Error display



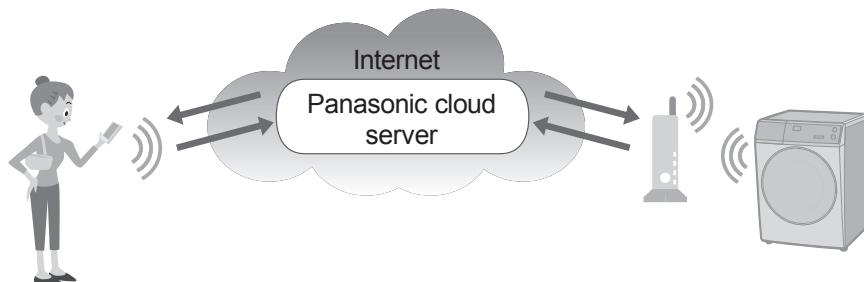
See P. 41.

# Panasonic SmartApp+

V105FR1 V10FR1 V10FC1 V90FR1

More convenient with your smartphone

You can use the service using the “Panasonic SmartApp+”.

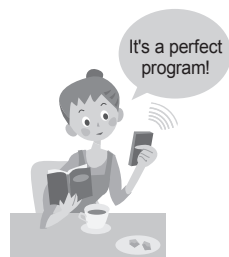


**You can operate the washing machine or set the timer with application.**

**Support program selection from program history.**

**We have “My Favorite” program.  
You can create original programs  
with your favorite settings.**

- Up to 10 programs.



Notification of washing status and end of operation.

**Clothes can be taken out immediately after washing.**

- The contents, functions and designs of this service are subject to change or termination without prior notice.

# Panasonic SmartApp+ (continued)

## Required Equipment and Environment

Let's check the equipment required to use the app.

- Android or iOS (iPhone) smartphone

- About supported OS

<https://www.panasonic.com/fiot/wash/>



Panasonic Website



- Wireless LAN router  
Use a wireless LAN router to connect to the internet.



- Internet environment

Please confirm that it is a broadband line.

Example) FTTH (optical fiber), ADSL, CATV (cable television), etc.

Internet communication charges will be borne by the customer.



### NOTE

- Make sure that the wireless LAN router has a communication standard of 2.4 GHz band. (Communication standards: IEEE802.11b, IEEE802.11g, IEEE802.11n) Other than the above cannot be used.
- Models that only support WEP cannot be used.
- As a security measure, be sure to use a wireless LAN router that can set the encryption method WPA3, WPA2, or WPA.
- We recommend WPA3 and WPA2 (AES) as the encryption method.
- We do not guarantee the operation of all wireless LAN routers. (Mobile router is not guaranteed to work.)



## Initial Settings



Follow the settings on the screen of the app.

### 1 Install the “Panasonic SmartApp+” (free)

- You can find the link to download the application from “Panasonic Website”.  
<https://www.panasonic.com/fiot/wash/>



Panasonic Website

- Alternatively, you can search for the “Panasonic SmartApp+” app on Google Play (Android) or App Store (iOS) and install the app.
- You can also scan the link to install the app from the QR code pasted on the washing machine.

### 2 Follow instructions displayed on the screen of the app and register the washing machine.

- Operate in a position where you can check the display on the washing machine.
- It cannot be operated while the washing machine is running.



Use the app (P. 52)

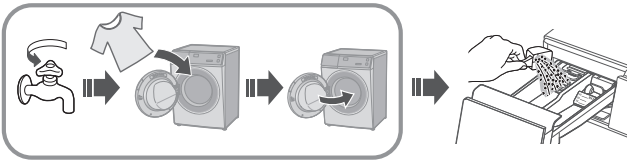
# Panasonic SmartApp+ (continued)

## Using the “Panasonic SmartApp+”

After initial setting is completed, you can use the app.

### Preparing to use the “Remote” function

You need to prepare the washing machine before going out.

- 1**


**NOTE**  
 ● Close the door completely.
- 2**

**On**

**Lights (On)**
- 3**

**Hold 5 sec.**

**Approx. 2 sec.**

**After 10 min.**  


**All other indications turn off, except:**  




### NOTE

- To cancel the remote control mode and unlock the door → turn the power off.
- When there is no remote control from the app, the remote control mode is released after 23 hours. During remote control mode, all buttons on the appliance (except ) are disabled. You can only control the washing machine from the app. After 23 hours, the normal screen is displayed and the remote control is disable.

To check the communication status with the lamp on control panel.

■ Lamp position

- 
**Light up** Communicatable (Connected)
- 
**Blinking** Trying to communicate (Connecting to server)
- 
**Off** Not connected



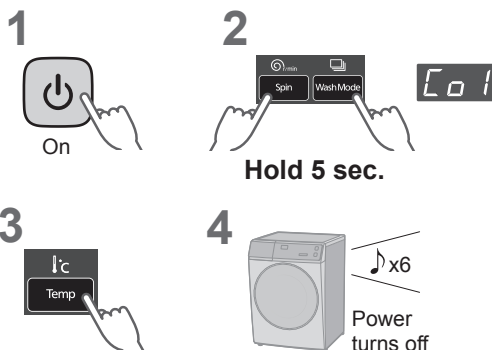
## Initializing

- When you stop using the “Panasonic SmartApp+”
- Suspected use due to unauthorized access
- If the appliance is a pre-owned machine
- When you dispose of or transfer the washing machine

Reset the wireless LAN settings to the default settings.

(Operate on the washing machine)

You should also stop using the service of the app.



# Panasonic SmartApp+ (continued)

| Error Display                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Error display                                                                  | Causes & Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| U81                                                                            | <ul style="list-style-type: none"> <li>Failed to connect the washing machine and the wireless LAN router. Check the following.               <ul style="list-style-type: none"> <li>The router is not turned on. → Turn on the power.</li> <li>The distance between the router and the washing machine is too long.→ Bring the router closer.</li> <li>There is a device that uses radio waves, such as a microwave oven, nearby.                   <ul style="list-style-type: none"> <li>→Keep a distance.</li> <li>→Stop using the device or wait a while and try again.</li> </ul> </li> <li>Multiple devices are connected to the router.                   <ul style="list-style-type: none"> <li>→Turn off the power of the device you are not using.</li> </ul> </li> </ul> </li> </ul>                                             |
| U82                                                                            | <ul style="list-style-type: none"> <li>Communication error with the server.</li> <li>There may be a problem with your internet connection.               <ul style="list-style-type: none"> <li>→ If you do not know the cause, contact your provider, carrier, or router manufacturer.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| U83                                                                            | <ul style="list-style-type: none"> <li>In “Backup connection”, SSID or password of the router is incorrect.               <ul style="list-style-type: none"> <li>→ Check the description of the router.</li> </ul> </li> <li>Failed to connect the washing machine and the router.               <ul style="list-style-type: none"> <li>→ Check the above “U81”.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| U84                                                                            | <ul style="list-style-type: none"> <li>“Scan connection” failed. Check the following.               <ul style="list-style-type: none"> <li>The Bluetooth® setting on your smartphone is turned off.</li> <li>The QR code cannot be read correctly.</li> </ul> <ul style="list-style-type: none"> <li>→ Make sure that the Bluetooth® setting is ON, and then connect again. If you still cannot connect, please try “Backup connection”.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |
| The app displayed the word like “Cannot communicate with the washing machine.” | <ul style="list-style-type: none"> <li>Communicate again after a while, or check the connection status by the following method.               <div> <div> <div>1</div>  <div>Turn off</div> </div> <div> <div>2</div>  <div>On</div> </div> <div> <div>3</div>  <div>Hold 5 sec.</div> </div> <div> <div>4</div>  <div>Timer</div> </div> </div> <ul style="list-style-type: none"> <li>→ If “U81”, “U82”, etc. are displayed, it is a connection error. Check the above.</li> </ul> </li></ul> |

## Usage for wireless LAN/Bluetooth®

### ■ Usage restrictions

Please note that there are the following restrictions on use. Panasonic is not liable for any incidental damages resulting from the failure to comply with the restrictions and the use or inability to use the machine.

- Do not connect to a wireless network that you do not have permission to use. A wireless network (SSID\*) that you do not have permission to use during automatic search of the wireless network environment may be displayed, but if you connect, it may be considered as unauthorized access.
- Do not use in a place where magnetic field, static electricity, or radio interference is generated. If you use it near the following devices, communication may be interrupted or the speed may slow down.
  - Microwave oven
  - Other wireless LAN / Bluetooth® devices
  - Other devices that use radio waves in the 2.4 GHz band (digital cordless phones, wireless audio devices, game consoles, PC peripherals, etc.)
  - Metal objects that easily reflect radio waves

---

\* A name used to identify a specific network on a wireless LAN. If this SSID matches on both devices, communication is possible.

### ■ Security measures

- Since the wireless LAN uses radio waves to send and receive data, there is a risk of unauthorized access. Take security measures to ensure the safety of your data. (P. 50) Please note that we are not responsible for any problems that occur without taking security measures.
- For the password (encryption key) of the wireless LAN router, refer to the instruction manual of the wireless LAN router and set it in consideration of security.

### ■ About firmware

- This machine has a function to connect to our firmware update server via the Internet and automatically update its own firmware to the latest version. Since wireless communication is temporarily interrupted during the update, communication may be interrupted or the speed may slow down.
- Do not analyze or modify the firmware.

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# Specifications

## ■ For Singapore

|                                         |             | NA-V10FR1<br>NA-V10FC1 | NA-V90FR1<br>NA-V90FC1 |
|-----------------------------------------|-------------|------------------------|------------------------|
| Rated voltage (V)                       |             | 220 - 240              |                        |
| Rated frequency (Hz)                    |             | 50                     |                        |
| Maximum energy rated power input (W)    |             | 1600 - 1900            |                        |
| Heating energy rates<br>power input (W) | For washing | 1445 - 1710            |                        |
|                                         | For drying  | 300 - 350              |                        |
| Maximum spin speed (r/min)              |             | 1400                   |                        |
| Product dimensions (W x D x H) (mm)     |             | 596 × 585 × 845        |                        |
| Product weight (kg)                     |             | 69                     |                        |
| Maximum mass of dry cloth (Wash) (kg)   |             | 10.0                   | 9.0                    |
| Maximum mass of dry cloth (Dry) (kg)    |             | 2.0                    |                        |
| Pressure of tap water (MPa)             |             | 0.01 - 1               |                        |

## ■ For Philippines

|                                         |             | NA-V105FR1      | NA-V10FR1 | NA-V95FC1 | NA-V90FC1 |
|-----------------------------------------|-------------|-----------------|-----------|-----------|-----------|
| Rated voltage (V)                       |             | 230             |           |           |           |
| Rated frequency (Hz)                    |             | 60              |           |           |           |
| Maximum energy rated power input (W)    |             | 1700            |           |           |           |
| Heating energy rates<br>power input (W) | For washing | 1570            |           |           |           |
|                                         | For drying  | 325             |           |           |           |
| Maximum spin speed (r/min)              |             | 1400            |           |           |           |
| Product dimensions (W x D x H) (mm)     |             | 596 × 585 × 845 |           |           |           |
| Product weight (kg)                     |             | 69              |           |           |           |
| Maximum mass of dry cloth (Wash) (kg)   |             | 10.5            | 10.0      | 9.5       | 9.0       |
| Maximum mass of dry cloth (Dry) (kg)    |             | 2.0             |           |           |           |
| Pressure of tap water (MPa)             |             | 0.01 - 1        |           |           |           |

Complies with  
IMDA Standards  
DB01017