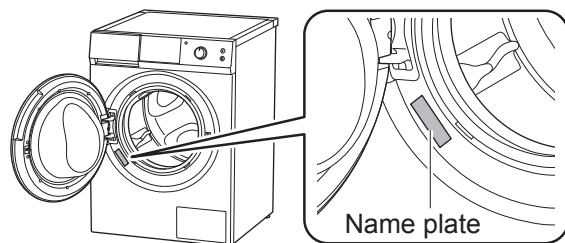


Specifications

| | |
|---|--|
| Model No. | NA-148XR1 |
| Rated voltage | 220 - 240 V |
| Rated frequency | 50 Hz |
| Maximum energy rated power input | 2000 - 2350 W |
| Heating energy rated power input | 2000 W (230 V) |
| Product dimensions | 596 mm (W) × 635 mm (D) × 840 mm (H) |
| Product weight | 77 kg |
| Maximum mass of dry cloth | 8 kg |
| Water consumption | Refer to "Power and Water Consumption". (P. 46) |
| Pressure of tap water | 0.03 - 1 MPa |

■ Check the power supply

The rated power of the appliance is shown on the name plate. Make sure it matches the specifications of your residence.



Customer Service Centre (For UK and Republic of Ireland)

| | |
|--|---|
| Monday to Friday 9:00 - 17:00 Excluding public holidays. | 0844 844 3899 |
| | If calling from the Republic of Ireland, please call 01 289 8333 |

Panasonic®

Operating & Installation Instructions

Washing Machine
(Domestic use)

Model No.
NA-148XR1

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07-2016

(WGB)(WGN)(WNR)

Thank you for purchasing this product.

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

EN

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Safety Precautions

Read and follow these safety precautions.

WARNING

May cause serious injury or death.

For the safety of you and your family

- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be done by children without supervision.
- Children of less than 3 years should be kept away unless continuously supervised.
- Keep away from fire. Do not put flammable materials or clothes with such things attached in the drum. Keep them away from the appliance. (To prevent explosion or fire)
 - For example: Solvent-based cleaning agents, kerosene, gasoline, benzine/thinner, alcohol, etc.
- To prevent injury, do not touch the drum until it completely stops.

WARNING

To prevent electric shock, overheating, combustion, or fire

- Use a socket that satisfies the rating requirement solely for this appliance. Do not use a plug adaptor or extension lead.
- Do not use a mains lead or mains plug that is damaged. If the mains lead is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not plug in or unplug the mains lead with wet hands.
- Always fully insert the mains plug into the mains socket.
- Do not hold or pull on the mains lead when removing the mains plug from the mains socket.
- Unplug the mains lead before cleaning.

Repairs

- Never disassemble, repair or modify the appliance yourself.
In case of malfunction or failure, immediately stop use, unplug the mains lead, and ask your local Customer Service Centre for repair.

Safety Precautions (continued)

CAUTION

May cause injury or property damage.

Correct use

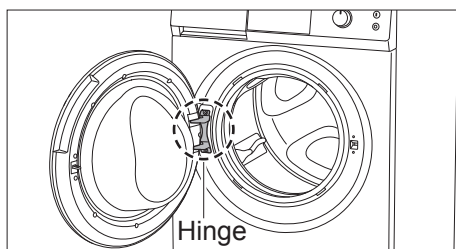
- This appliance is only suitable for textiles labelled washing machine washable.
- Do not connect to a hot water supply.
- Do not obstruct the openings of the bottom face with carpet, etc.

To prevent water leaks

- New hose-sets supplied with the appliance are to be used and old hose-sets should not be reused.
- Turn off the tap if the appliance is not going to be used for a prolonged period, such as during a holiday. Water could leak while you are away and cause damage to household goods.

To prevent injury and burns

- Keep your fingers away from the door hinge when opening and closing the door.
- Do not climb onto the appliance.

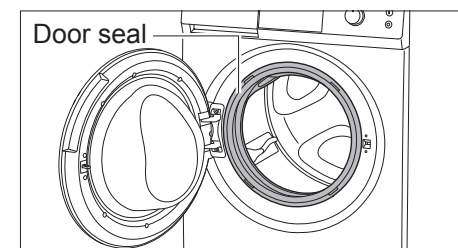
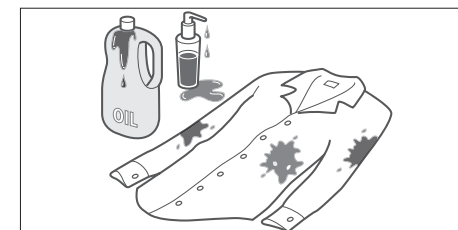
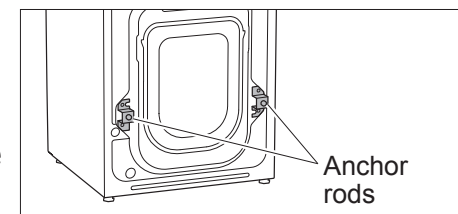


CAUTION

- When washing at high temperature, be careful not to burn yourself. Drain hose, drum, door glass, and laundry will be hot.

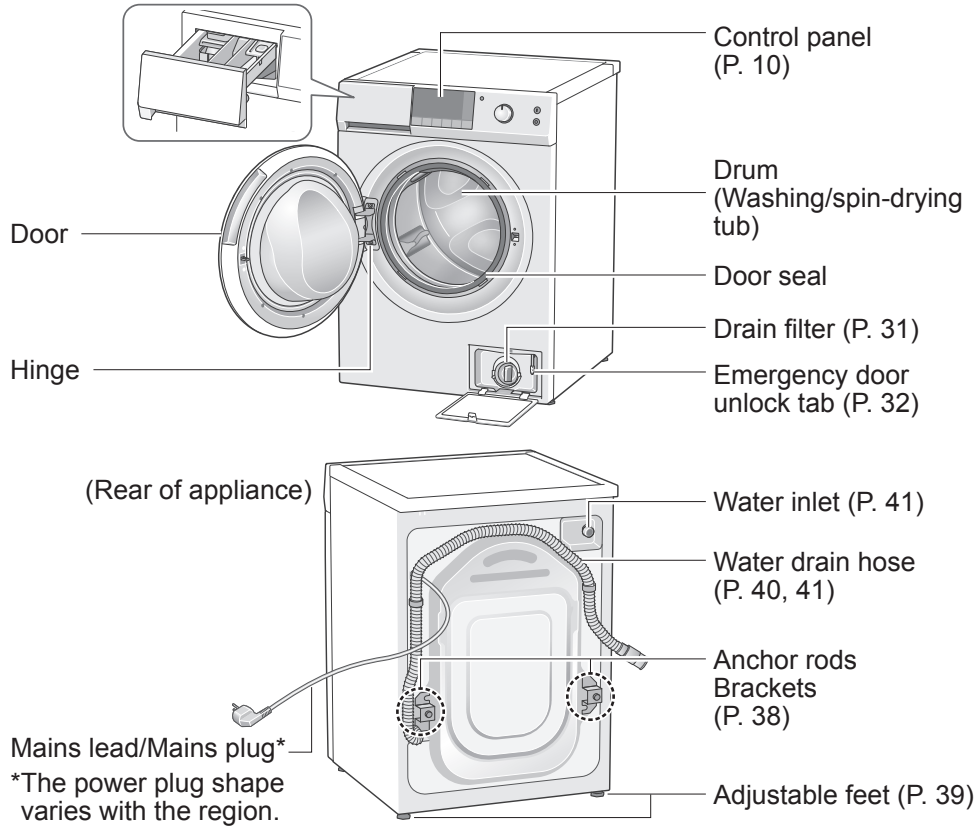
To prevent damage to the appliance and laundry

- Do not operate the appliance with the anchor rods still fitted. This may cause excessive vibration of the appliance.
- Do not wash clothes that are stained with a lot of vegetable oil, cosmetic oil, etc. The oil can get hot and deform the door seal, leading to water leakage.



Checking Your Washing Machine

Detergent drawer (P. 12)

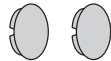


Accessories

Elbow (P. 41)



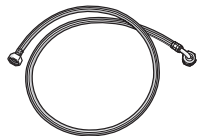
Cover caps (2) (P. 39)



Water supply hose* (P. 40, 41)

*The hose supplied depends on the region the unit is sold in.

Standard hose



Hose with water supply valve



Before Washing

Check before use

When first using or after a long time of non-use, check the following.

- That the water supply hose and water drain hose are connected properly. (P. 40)
- There is no problem in the water-supply hose connection, when turning on the tap.
- The mains plug is plugged in.

Before first use

There may be drops of water, or condensation, in the appliance due to the factory inspection process before shipment. To rinse away any residues etc., operate as follows:

- "Cotton" programme
- Default setting 40 °C
- No detergent, no clothing

Preparing laundry

Read the washing labels of clothes, and sort them by colour, fabric, and degree of soiling. This helps you choose a suitable programme and temperature.

Apply stain remover to any stains.

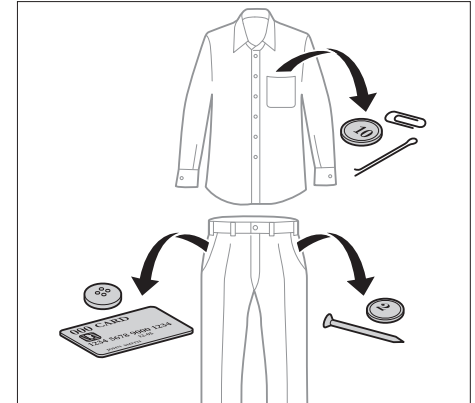
Sorting

- Wash separately clothes that are not colour fast. (denim, dark coloured items, etc.)

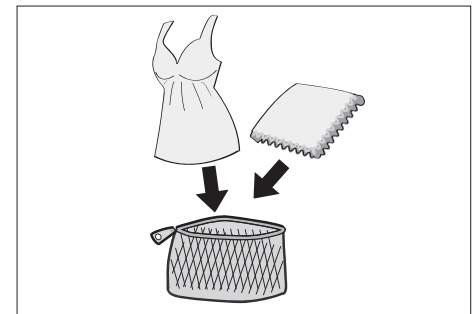
Before put clothes in drum

To prevent damaging clothes or appliance malfunction, carry out the following steps.

- Remove foreign objects (coins, pins, clips, nails) from laundry.



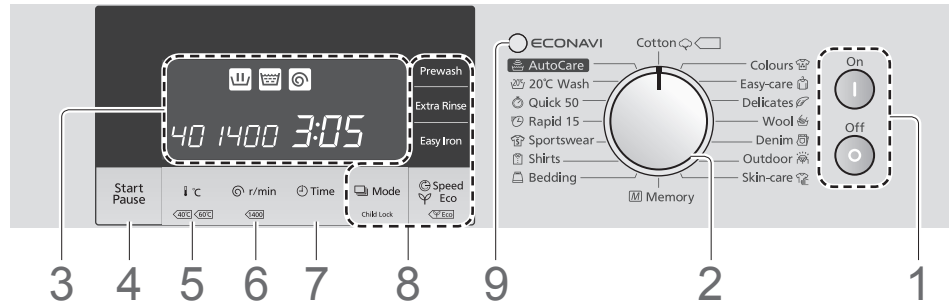
- Tie strings on aprons, etc.
- Clothing with raised fabric: Turn inside out.
- Clothing with zippers: Pull up zippers, and turn inside out.
- Small items, wired bras, and lace items: Put in a laundry net.



- Brush off hair, animal fur, sand etc. before washing
- Heavy dirt or deep stains: Wash lightly by hand first.

Control Panel

Controls



1. Power buttons [On] [Off]

2. Programme selection dial

Use this dial to choose a programme suitable for the laundry. (P. 18)

3. Display (P. 11)

4. Start/Pause button [Start/Pause]

To start or pause the operation.

5. Temperature button [°C]

For selecting the water temperature. (P. 24)
❄️ (Cold) – 90 (90 °C)

6. Spin speed button [r/min]

For selecting the spin speed. (P. 25)

7. Time button [Time]

For presetting the time at which the wash is to finish. (P. 25)

8. Optional function buttons

Use the buttons when washing with any of the optional functions or when setting the Child Lock. (P. 28)

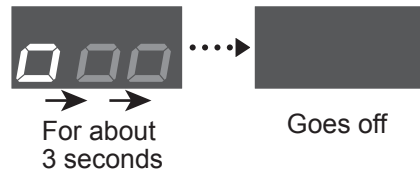
- 🔒 : Child Lock
Press and hold “Mode” for at least 5 seconds to lock the door and other buttons.

9. ECONAVI lamp

Lights up or flashes while the “AutoCare” programme runs. (P. 23)

NOTE

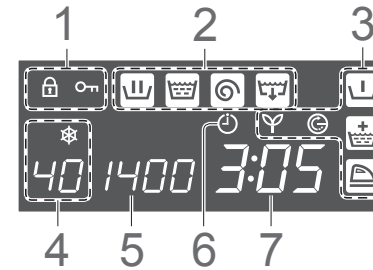
- To turn the power off and back on, press “Off” and make sure the display has gone off, before turning back on.



- If you do not press “Start/Pause” within 10 minutes of powering on the unit, the appliance automatically switches itself off.

Display

This illustration shows all indications for explanation purposes.



1. Lock

🔒: The door is locked.

🔒 : The door and buttons are all locked (Child Lock).

2. Process

Each indicator flashes to show the current process, and goes off when the process finishes.

| | |
|---|-------|
| 🧺 | wash |
| 🧺 | rinse |
| 🌀 | spin |
| 🚰 | drain |

3. Optional functions

Selected optional functions are displayed. (P. 26, 27)

4. Temperature

5. Spin speed

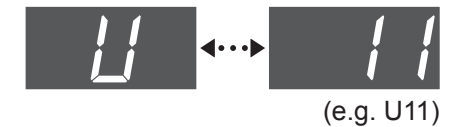
6. Timer

7. Remaining time

This indicator shows the approximate time until the operation finishes.

Error display

An error is displayed if the appliance malfunctions. (P. 36)



Touch operation

- Operation buttons are capacitive (Except for the power buttons). Touch the buttons directly with your bare fingers.
- When a towel containing water or detergent touches an operation button, the appliance may malfunction.

Detergent

- Add detergent, etc. before pressing “Start/Pause”.
- Read instructions on the packet of detergent or other agent, for correct quantity depending on the amount of laundry, degree of soiling, and water hardness.

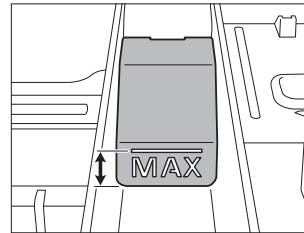
Detergent, water softener, bleach, stain remover

- When using a tub cleaning detergent, also put it in this compartment. (P. 30)

Fabric softener, laundry starch

It's automatically added to laundry during final rinsing.

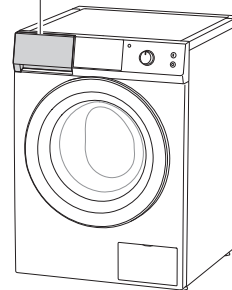
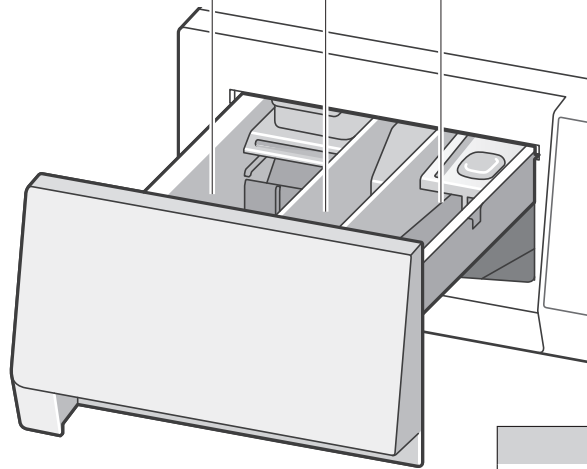
- Amount not above “MAX” (95 ml) line



Detergent for prewashing

When using “Prewash” function (P. 27)

Detergent drawer



CAUTION

Do not operate this appliance with detergent drawer detached.
It will leak water.

Detergent

Use a low foam detergent. When using a detergent made for temperatures below 20 °C (as low as 15 °C), we recommend the “20 °C Wash” programme.

- To prevent powdered detergent from remaining in detergent drawer:
 - Dry inside the detergent drawer with a cloth.
 - Break up lumps in powdered detergent.

If powder still remains in drawer, put it directly in drum instead.

- If you forget to add detergent before starting a wash: Select using “Mode” (P. 26) to drain the water, then start again.

NOTE

- **Do not put detergent in the detergent drawer, if the instructions on the package advise that it should be put directly in the drum.**

The detergent may not flow freely, and some may remain in the drawer, causing water to overflow from the drawer.

■ Prewashing

- You need separate detergent for prewash and main wash.
- Use powdered detergent for main wash. Liquid detergent washes away in prewash.

Water softening agent

If you live in a hard water area (1.3 mmol/L hardness or more), we recommend using a water softening agent. This reduces the detergent required, and prevents limescale, which damages the appliance.

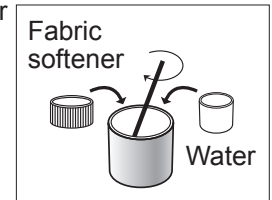
NOTE

- For information on water hardness, contact a specialist near you.

Fabric softener

Prevents laundry static.

- If any softener remains in detergent drawer after operation, dilute the softener with water before pouring into the drawer. (do not exceed the max amount)
Softener left in drawer: You can wipe it with a wet cloth.



Laundry starch

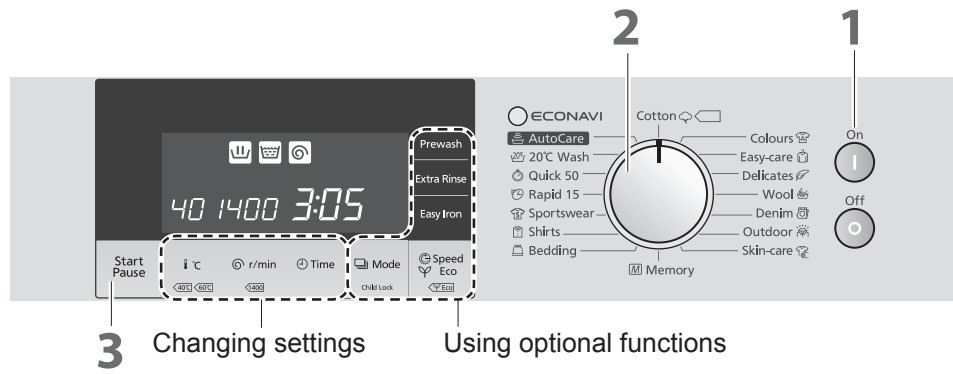
- **If it is hard to pour starch into the detergent drawer**

Dilute the starch with water before pouring into the drawer. (do not exceed the max amount)

- **After using laundry starch**

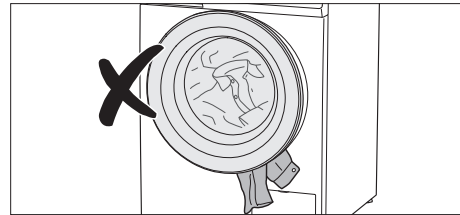
- 1 Clean detergent drawer. (P. 30)
- 2 Run the “Rapid 15” programme (P. 19) without detergent to remove excess starch in drum.

Washing Basic Method

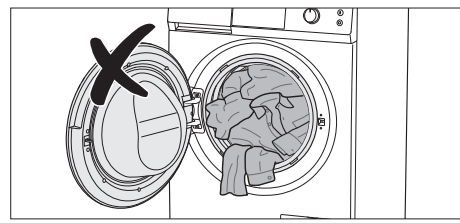


NOTE

- Do not get laundry caught in the door. It can cause damage to the door seal.



- Do not put too much laundry into the drum. It can cause excessive vibration or damage to the appliance.



- To open the door during operation (The door is locked during operation)
 - Start Pause **Press "Pause"**. (The lock is released with a click)
- During spinning process, it may take about 1 minute for the drum to stop rotating.

■ **Preparing**

- Sort the laundry and put it into the drum. (P. 9)
- Add the detergent. (P. 12)

1 **Turn on the power.**

2 **Select a programme.** (P. 18, 19)

The required time is displayed.

■ **Changing settings**

■ **Using optional functions**

3 **Start operation.**

- Weighing (about 30 seconds)
 - (Display of weighing)
 - Some programmes do not weigh the laundry. (P. 18, 19)
- Required time display (recalculated)
 - (e.g.)

Operation finishes. (The buzzer sounds and the door lock is released.)

NOTE

- Colours can run between clothes, so remove coloured laundry soon after the programme finishes.

Changing settings

After selecting a programme, you can change the following settings.

- Temperature (P. 24)
- Spin speed (P. 25)
- Timer (P. 25)

Using optional functions

After selecting a programme, you can add the following optional functions.

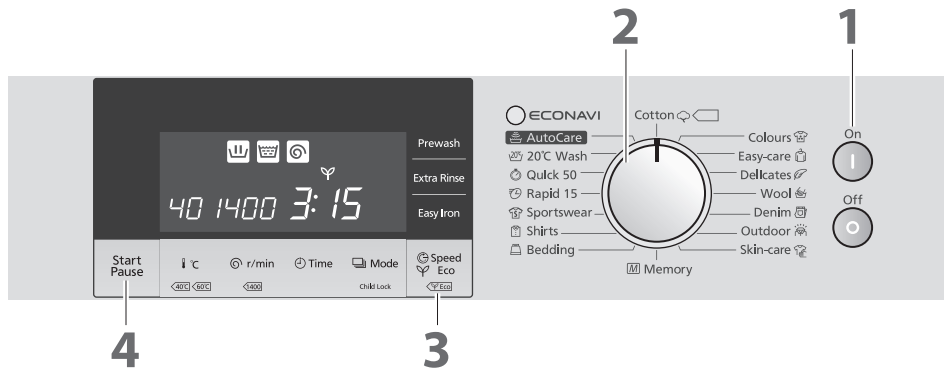
- Prewash (P. 27)
- Extra Rinse (P. 27)
- Easy Iron (P. 27)
- Speed/Eco (P. 27)
- Mode (P. 26) (Select and run the wash, rinse or spin process)

NOTE

- The range of settings you can change and the optional functions you can add vary depending on the programme. (P. 20, 21)

Washing

Eco-friendly Laundry



Washes using less energy and water, but takes longer. (P. 46)

Setting of the programme for the energy consumption values

The following procedures can realise the energy consumption values for the standard programmes. The standard programmes are mentioned respectively as “standard 60 °C cotton programme” and “standard 40 °C cotton programme” in the regulations 1015/2010 and 1061/2010.

Those programmes are suitable to clean normally soiled cotton laundry and are the most efficient programmes in terms of combined energy and water consumption for washing that type of cotton laundry.

- The actual water temperature may differ from the declared cycle temperature.

■ Preparing


- Sort the laundry and put it into the drum. (P. 9)
- Add the detergent. (P. 12)

1  Turn on the power.

2 Select the “Cotton” programme.

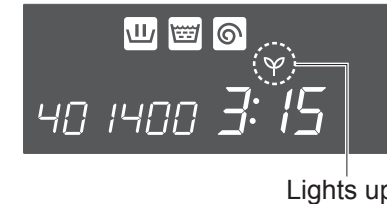


3  Press “Speed/Eco” twice.

 will light up and “Eco” mode operation will be set.

NOTE

- When washing at 60 °C, press “↓ °C” to set to 60 °C.














4  Start operation.



Operation finishes.






The buzzer sounds and the door lock is released.

Programme List

| | Programme | Description | Max load | Time*1 |
|-------------|---|---|----------|-------------|
| Fabric type |  Cotton | Daily wash for cotton, linen and cotton blends. | 8 kg | 1:55 - 3:05 |
| |  Easy-care | Gentle wash for cotton, linen and synthetic fibres. | 4 kg | 1:34 - 2:32 |
| |  Delicates | Gentle wash for synthetic fibre, satin, lace etc. preventing damage. | 4 kg | 1:01 - 1:06 |
| |  Bedding*2 | For washing large items such as bed sheets. | 3 kg | 1:02 |
| |  Wool | Gentle wash for hand and machine washable wool and wool blend clothes preventing clothes shrinkage. | 2 kg | 0:40 |
| |  Colours | Colour-fast wash for cotton and cotton blend items. | 4 kg | 1:06 - 1:21 |
| |  Skin-care | Wash programme for sensitive skin. | 4 kg | 1:39 - 1:59 |
| |  Shirts | Washing for collar and cuff grime of shirts and blouses, prevents creasing. | 2 kg | 1:16 |
| |  Sportswear*2 | For washing synthetic sportswear. | 3 kg | 1:38 |
| |  Outdoor*2 | For washing synthetic and water-repellent treated outdoor clothes. | 3 kg | 1:48 |
| |  Denim*2 | Very gentle wash for denim with reduced colour fading. | 2 kg | 1:03 |

NOTE

- The required time varies depending on temperature, water pressure, drainage condition, and load size.

| | Programme | Description | Max load | Time*1 |
|---------------|---|---|----------|---------------|
| Energy saving |  AutoCare | Washing programme that automatically tailors each wash using intelligent sensor technology. Provides ideal laundry care with perfectly clean results and the best energy and water consumption possible - without the need for manual settings. | 8 kg | 0:58 - 3:44*3 |
| |  20 °C Wash | Low energy, low temp. wash for lightly soiled cotton and linen blends. | 4 kg | 1:21 - 1:36 |
| Time saving |  Quick 50 | 50 min. quick wash for lightly soiled cotton and linen blends. | 4 kg | 0:47 - 0:50 |
| |  Rapid 15 | 15 min. full rapid wash for a small amount of lightly soiled items. | 2 kg | 0:15 |
| Others |  Memory | Customised programme for washing linen and cotton blends. Memorises the last used setting. | 8 kg | - |

*1 For each programme's default water temperature.

*2 The load is not weighed after "Start/Pause" is pressed. Operation starts straight away.

*3 The required time (2:43) that is shown after starting operation may shorten or lengthen depending on result of the sensor detection.

Details of Programmes

| | Settings Programme | Auto setting | | | Range of setting change (P. 24, 25) | | Available options (P. 26, 27) | | | | |
|---------------|-----------------------|-------------------------|-----------------|----------------|-------------------------------------|------------|-------------------------------|-----------|-----------|-------------|---------|
| | | Temperature | Rinse cycles | Spin speed | Temperature*1 | Spin speed | Mode | Speed/Eco | Easy Iron | Extra Rinse | Prewash |
| Fabric type | Cotton | 40 °C | 3*3 | 1400 | Cold - 90 °C | 500 - 1400 | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Easy-care | 40 °C | 3*3 | 1200 | Cold - 60 °C*2 | 500 - 1200 | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Delicates | 40 °C | 2 | 800 | Cold - 40 °C*2 | 500 - 800 | ✓ | – | ✓ | ✓ | ✓ |
| | Bedding | 30 °C | 2 | 800 | Cold - 40 °C*2 | 500 - 800 | ✓ | – | ✓ | ✓ | – |
| | Wool | 30 °C | 3 | 500 | Cold - 40 °C*2 | 500 | ✓ | – | – | ✓ | – |
| | Colours | 40 °C | 2 | 1200 | Cold - 40 °C*2 | 500 - 1400 | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Skin-care | 40 °C | 3 | 1200 | Cold - 90 °C*2 | 500 - 1200 | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Shirts | 40 °C | 2 | 500 | Cold - 60 °C*2 | 500 - 800 | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Sportswear | 40 °C | 2 | 800 | Cold - 40 °C*2 | 500 - 1200 | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Outdoor | 30 °C | 3 | 800 | Cold - 40 °C*2 | 800 | ✓ | ✓ | – | ✓ | ✓ |
| | Denim | 30 °C | 2 | 800 | Cold - 40 °C*2 | 500 - 1200 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Energy saving | AutoCare | Auto (30 °C - 43 °C) | Auto (2 - 3) | Auto (1400) | – | – | – | – | – | – | – |
| | 20 °C Wash | 20 °C | 2 | 1400 | Cold, 20 °C | 500 - 1400 | ✓ | – | ✓ | ✓ | ✓ |
| Time saving | Quick 50 | 40 °C | 2 | 1200 | Cold - 60 °C*2 | 500 - 1400 | ✓ | – | ✓ | ✓ | ✓ |
| | Rapid 15 | 30 °C | 1 | 800 | Cold - 30 °C*2 | 500 - 800 | – | – | – | – | – |
| Others | Memory | 40 °C | 3*3 | 1400 | Cold - 90 °C | 500 - 1400 | ✓ | ✓ | ✓ | ✓ | ✓ |

*1: Cold: lights up
*2: Cannot set to 20 °C

*3: If the “Speed/Eco” function is selected, the machine will automatically reduce the rinse cycles from three to two.

Tips for Each Programme

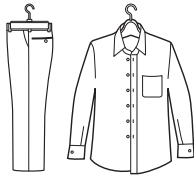
“Wool” and “Delicates”

■ When washing

- Place items flat on top of each other inside the drum.
- For wool items, use a mild liquid detergent.
- To rinse fully, use the “Extra Rinse” function. (P. 27)

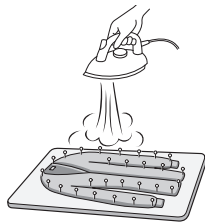
■ When drying

- Lay out wool and nylon items flat.
- Hang out white or light-coloured wool and nylon items in the shade. (away from direct sunlight)
- Use hangers for shirts, blouses and trousers.



■ If items shrink in the wash

- 1 Spread the item to its original size on an ironing board.
- 2 Use dress pins to hold the size and shape.
- 3 Iron using a lot of steam and then leave the item to dry.



“Memory”

You can design your own programme based on the default settings of the “Cotton” programme. Select “Memory” programme and set other settings, then run the programme. Later, this preset programme can be run by simply accessing “Memory” programme.

“Bedding”

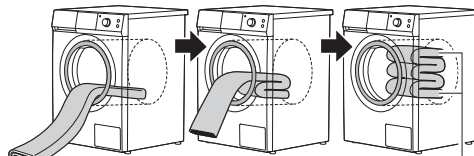
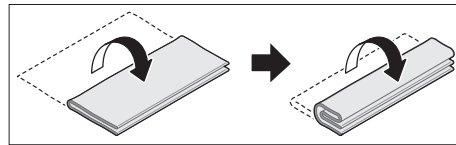
■ Washable items

- Observe the instructions on the washing labels.
 - Duvets
 - Bedspreads
 - Covers
 - Blankets
 - Sheets
- Maximum size 1.40 x 2.20 m

NOTE

- You can only wash 1 item at a time.
- You cannot wash items made of wool, silk or long-pile fake fur.
- You cannot wash electric blankets.
- Do not use a laundry net. (It prevents drum rotation.)

■ Putting blankets into the drum



Both ends at the back of the drum

NOTE

- Do not roll blankets or bedspreads into balls or fold haphazardly. This may cause excessive vibration, damaging the appliance or laundry.

“Outdoor”

■ Washable items

- Items with the (Wash), (handwash) or (no dry cleaning) mark on the label.
- Synthetic fabric outdoor wear, for example, rainwear, outerwear jackets and trousers.

■ Non-washable items

- Clothing with cotton lining or padding, or down feathers
- Sleeping bags and synthetic fabric covers

NOTE

- Before washing, close any zippers and button up the clothing.
- Do not wash clothing in laundry nets by themselves because the load will be unbalanced and not be smoothly washed.
- Water repellent finishes might be washed out over time. To restore water repellency, iron the garment with a low temperature setting, dry it in a dryer, or re-apply a commercially available water repellent treatment. If a treatment is used, follow the product’s instructions, or the instructions in the garment.
- We recommend laying down towels in front of the appliance when taking out water-repellent clothing after the spin process because water may drip from the clothing.

“AutoCare”

Programme that automatically tailors each wash using ECONAVI intelligent sensors. Provides ideal laundry care with perfect clean results and the best energy and water consumption possible - through detecting the laundry type, degree of soiling and detergent type.

■ Washable items

Daily cottons and synthetics suitable to be washed at 30 °C or 40 °C. For laundry listed below, we recommend our special programmes:

| Fabric Types / Items | Recommended programme |
|--|-----------------------|
| Wool | Wool |
| Silk | Wool |
| Shirts | Shirts |
| Coloured | Colours |
| Denim | Denim |
| Bedding | Bedding |
| Delicates Synthetic fibre, satin, lace, with print, with ornaments, etc. | Delicates |

■ ECONAVI lamp

Lights up while the “AutoCare” programme runs. The green light flashes during the detection by ECONAVI sensors.

NOTE

■ Result of ECONAVI sensor detection


- Water temperature may be adjusted; lower washing temperature is selected for lightly soiled laundry, or higher for heavily soiled (30 °C - 43 °C).
- Remaining time indicator may be changed due to detection during operation.


Changing Programme Settings

After selecting a programme, you can reset the temperature and the programme end time.

■ Preparing

- Sort the laundry and put it into the drum. (P. 9)
- Add the detergent. (P. 12)

1  **Turn on the power.**

2  **Select a programme.**
(P. 18, 19)



3 **Change settings of the programme.**

- The setting range depends on the programme.
(P. 20, 21)

4  **Start operation.**

Changing the temperature

°C

You can change the washing temperature according to the type of laundry or the degree of soiling.

3  **Press.**

The temperature indication displayed changes with each press.

■ Setting range

❄ (Cold) - 90 °C (9 levels)

■ Setting guide

- Higher temperature:
Whites, cottons, heavily soiled items
- Lower temperature:
Colours, items that shrink easily, lightly soiled items

Changing the spin speed

r/min

Change the spin speed to dry laundry more thoroughly or reduce wrinkles in laundry.

3  **Press.**

The spin speed indication displayed changes with each press.

■ Setting range

500 - 1400 r/min (5 levels)

■ Setting guide

- Higher speed:
To dry more thoroughly
- Lower speed:
To reduce wrinkling

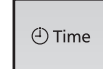
NOTE

- You can change the spin speed after the program starts and until the wash process ends. Pause the programme and do the steps **3** and **4**.

Setting the programme end time

Time

You can set the time the programme will end.

3  **Press.**

The time indication displayed changes with each press. Holding down "Time" changes the time continuously.

■ Setting range

Up to 24 hours (in increments of 1 hour)

■ To check a preset time

 **Press.**

■ To cancel settings

 **Turn off the power.**
(All settings are cancelled)

NOTE

- Do not use a detergent that is difficult to dissolve because it may cake up before the wash starts and not flow into the drum.
- You cannot set the end time for the "Wool" programme.


Washing with Optional Functions

You can use combinations of optional functions with each programme.

■ Preparing

- Sort the laundry and put it into the drum. (P. 9)
- Add the detergent. (P. 12)

1  **Turn on the power.**

2  **Select a programme.**
(P. 18, 19)



3 **Add optional function.**

- The options available differ depending on the programme. (P. 20, 21)
- An alarm sounds if you select an option that is unavailable.

4  **Start operation.**

Select and run processes

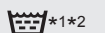





 Mode

You can select and run a combination of wash, rinse and spin processes.

3  **Press.**

Child Lock

The indication displayed changes with each press.

| | |
|--|-------------------|
|  *1*2 | Rinses |
|  *1 | Spins |
|  *2 | Washes and rinses |
|  *1 | Rinses and spins |
|  | Drains |
|  | As programmed |

*1 Drains first if there is water in the drum.

*2 Water from the rinse will remain.



Saving time, Saving energy

 Speed/  Eco

Select when you want to wash quickly or conserve energy.

3  **Press.**

The indication displayed changes with each press.


| | |
|---|--|
|  Speed | Wash time is shorter, suitable for lightly soiled laundry. |
|  Eco | Washes using less energy and water but takes longer. |
| goes off | As programmed |

Rinse thoroughly

 Extra Rinse

If you are concerned that some detergent may remain in your laundry, you can add an extra rinse process.

3  **Press.**

 lights (activated) or goes out with each press.


NOTE


- You can change the “Extra Rinse” setting after the program starts and until the wash process ends. Pause the programme and do the steps **3** and **4**.

Reduce wrinkles

 Easy Iron

Keeps the spin speed to 800 r/min or less to reduce wrinkles, making ironing easier.

3  **Press.**

 lights (activated) or goes out with each press.

NOTE


- You can change the “Easy Iron” setting after the program starts and until the wash process ends. Pause the programme and do the steps **3** and **4**.
- After the operation has finished, the drum rotates intermittently to unravel tangled laundry for up to 30 minutes until the door is opened. If the appliance detects an unbalanced load during the final spin process, this operation may not be done because it automatically reduces the spin speed.

Prewash

 Prewash

You can wash laundry twice by adding the prewash option. This is good for heavily soiled items.


3  **Press.**

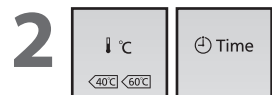
 lights (activated) or goes out with each press.

Changing Appliance Settings

Cancelling the buzzer Buzzer

You can turn off the buzzer that sounds at the end of the programme.

- 1  Turn on the power.



Press at same time, for about 5 seconds.


The buzzer setting is cancelled after a beep.

■ To activate

Do the same operation as you did for cancelling. The buzzer setting is activated after two beeps.

Setting the Child Lock Child Lock

You can lock the door to prevent children from opening it themselves. This also locks the operation buttons.

- 1  Turn on the power.



■ To deactivate

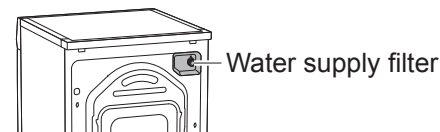


- Ignore the beeps and keep "Mode" pressed until the Child Lock is deactivated.

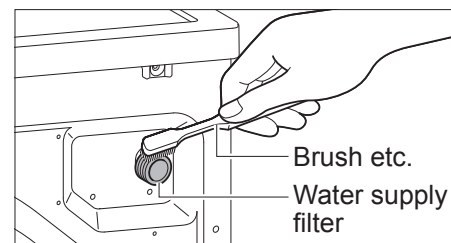
Maintenance

Water supply filter

Clean the filter if water is not supplied properly.

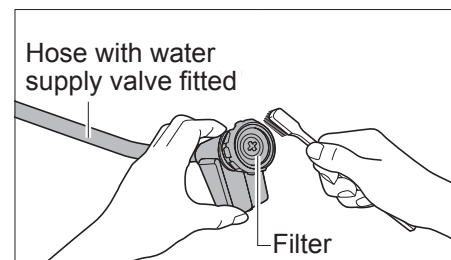


- 1 Turn off the tap.
- 2 Turn on the power and start the "Cotton" programme without any laundry or detergent inside the drum. (P. 17)
- 3 After 1 minute, turn off the power. Water has drained out of the water supply hose.
- 4 Remove the water supply hose and clean the water supply filter.



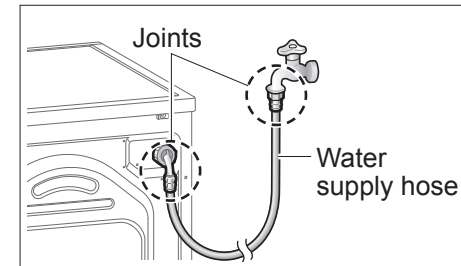
■ If the hose is fitted with a water supply valve

Also remove the hose from the tap and clean the water supply filter at that end too.

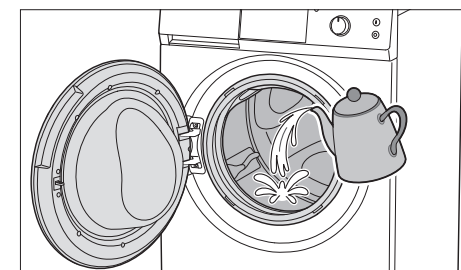



If the water supply hose is frozen

- 1 Wrap warm towels around the joints of the water supply hose.



- 2 Put 2 to 3 litres of hot water (about 50 °C) into the drum.

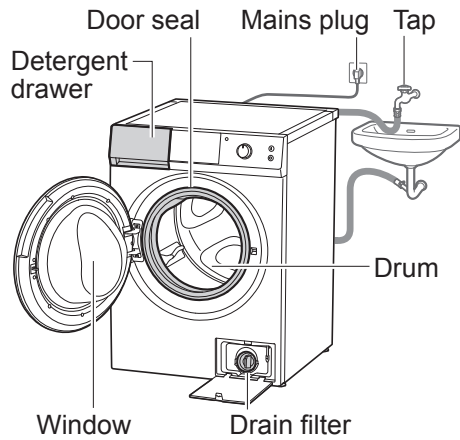


- 3 Select  in "Mode" (P. 26), and start operation.

NOTE

- If the appliance is delivered in freezing weather conditions, leave it indoors for about 24 hours before using it. This will allow any ice inside the hose to melt.

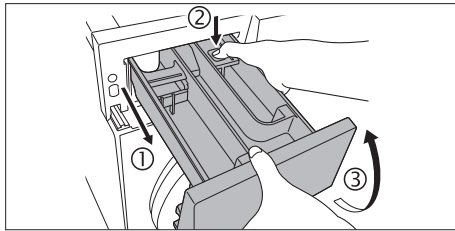
Maintenance (continued)



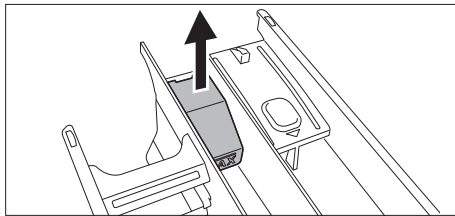
Detergent drawer

Wash the detergent drawer with water. A build-up of detergent can develop mould.

- 1 Pull out the detergent drawer.



- 2 Remove the softener cover.



- 3 Wash the detergent drawer with water.
- 4 Replace the softener cover and detergent drawer.

Appliance

Use a soft cloth to wipe off any water or dirt.

NOTE

- Do not splash water.
- **Door seal and window**
Wipe off any lint or foreign objects.
 - **Appliance**
Wipe with a cloth and mild kitchen detergent.

Drum

Once a month, run the "Cotton" programme at 60 °C without anything inside the drum. This will reduce bacteria and prevent odours.

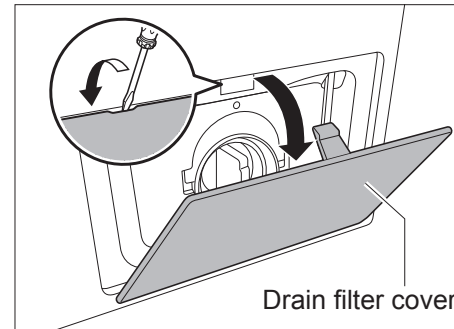
NOTE

- If you use a tub cleaning detergent or bleach, put about 30 ml into the detergent compartment of the detergent drawer. (P. 12)
- If you use a scale remover, follow the manufacturer's instructions.

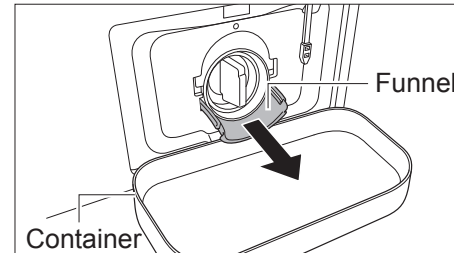
Drain filter

Remove lint from the drain filter once a month. A build-up of lint can hamper drainage.

- 1 Switch off and unplug the appliance.
- 2 Open the drain filter cover with a flat-blade screwdriver, and remove the cover.



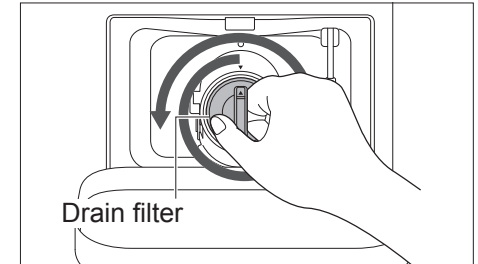
- 3 Pull out the funnel, and place a container to collect the drainage water.



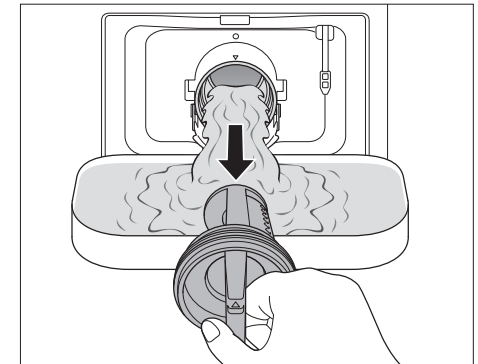
CAUTION

Do not remove the drain filter if there is water inside the drum, such as during operation. If you do, a large volume of water (possibly scalding water) will pour out.

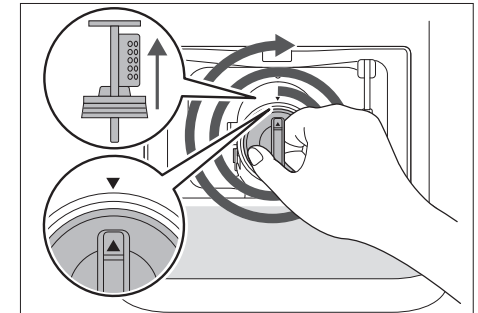
- 4 Turn the drain filter slowly to loosen it so as not to discharge large amounts of water at a time.



- 5 Pull the drain filter out.



- 6 Remove any lint and debris.
- 7 Turn the drain filter to tighten it until it stops. (two rotations)

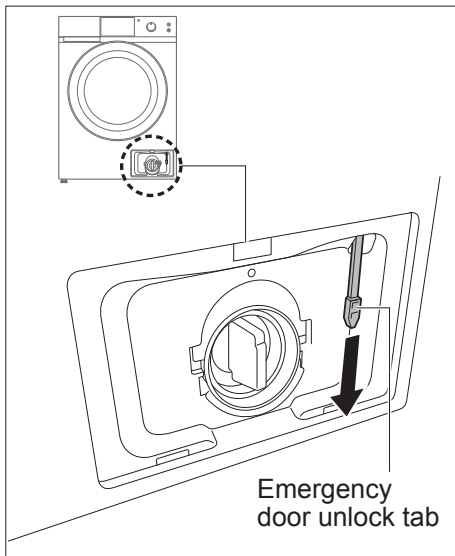


- 8 Attach the drain filter cover.

Opening the Door in an Emergency

When the door stays locked due to a power failure, or while displaying an error that starts with “H”, the door can be opened using the following instructions.

- 1 Turn off the power, and open the drain filter cover. (P. 31)
- 2 When there is water in the drum, drain the water by removing the drain filter. (P. 31)
- 3 Pull down the emergency door unlock tab. The door lock is released, and you can open the door.



| CAUTION |
|--|
| <ul style="list-style-type: none"> ● There is a risk of burns during operation at high temperatures. <ul style="list-style-type: none"> - Operate after temperature has fallen. ● There is a risk of injury if you put your hand in the drum during rotation. <ul style="list-style-type: none"> - Operate after the rotation has stopped. ● Opening the door when water can be seen through the glass of the door may cause the water to spill. <ul style="list-style-type: none"> - Drain the water by removing the drain filter. (P. 31) |

Troubleshooting





| | Problem | Cause and Measures |
|-----------|---|--|
| Appliance | Buttons do not work | <ul style="list-style-type: none"> - Settings cannot be changed while an operation is in progress. Only the spin speed, “Extra Rinse” and “Easy Iron” settings can be changed when the wash process is paused. - The Child Lock (🔒🔑) may be activated. (P. 28) |
| | Door does not open | <ul style="list-style-type: none"> - The door is locked while an operation is in progress. (P. 14) - The Child Lock (🔒🔑) may be activated. (P. 28) - The temperature inside the drum may be very high. - The water level may be too high. <ul style="list-style-type: none"> ■ To open the door immediately (1) Switch the appliance off and then on again. (P. 10) (2) Select the “Cotton” programme. (3) Select 🌀 in “Mode” (P. 26), and start operation. - If you switch off the appliance or there is a power cut while the door is locked, it remains locked until the power is turned on again. |
| | Unusual odour | <ul style="list-style-type: none"> - Rubber parts may give off a smell when you first use the appliance, but the smell will go away over time. - Run a wash at 60 °C to clean the drum. (P. 30) |
| Wash | No water going into the appliance | <ul style="list-style-type: none"> - The tap may be turned off. - The water supply may be disrupted. - The water supply hose may be frozen. (P. 29) - The water supply filter may be blocked. (P. 29) |
| | Water builds up during a wash | <ul style="list-style-type: none"> - This is normal. Water is automatically supplied if the water level falls. |
| | Water drains out during a wash | <ul style="list-style-type: none"> - If there is excess foam, water is drained out and fresh water supplied to remove the foam. This is the foam detection function. - Even if water is directly supplied to the drum, it may drain away without building up. |
| | Water supply stops and water is drained away | <ul style="list-style-type: none"> - The water supply is automatically stopped if the water volume in the drum reaches a certain level, and some water may drain away. This feature is called the overflow detection function. |

Troubleshooting (continued)

| | Problem | Cause and Measures |
|--------------------|--|--|
| Rinse/Spin | Water is not supplied to the drum during the rinse process | - Before rinsing, the appliance spins to drain out any remaining water. Then it fills up with fresh water. |
| | Rinsing begins before the spin process finishes | - If the appliance detects an unbalanced load, it automatically starts rinsing to correct the imbalance. - If excess foam remains after washing, the water is drained out and refilled to wash the foam away. This is the foam detection function. |
| | During the spin process, the drum stops and rotates several times | - This is normal. When the appliance detects an unbalanced load, it automatically tries to correct it. - The laundry may be too light. →Try adding one or two bath towels. |
| | Laundry is not spun satisfactorily. It is still wet after the spin process. | - This is normal. When the appliance detects an unbalanced load during the final spin process, it automatically reduces the spin speed. |
| | Foam or water remains on the door or door seal | - Some foam or water may remain depending on the state of the laundry or the amount of detergent used. Wipe foam or water away before taking out the laundry. |
| | Laundry clings to the drum | - If the "Eco" or "Speed" function is used when there is a lot of laundry, the laundry may cling to the drum. |
| Time | The displayed remaining time changes | - The display is only a guide and is corrected continually. - The remaining time may increase if the rinse or spin settings are changed or if the appliance detects an unbalanced load and makes an adjustment accordingly. - Remaining time may be longer or shorter while operating with the "AutoCare" programme. |
| Detergent and foam | There is not enough/too much foam | - The amount of foam varies depending on the temperature, level and softness of the water. The following can result in less foam - Powdered detergent may have been put directly into the drum. →It should be put into the detergent drawer. (P. 12) - Too little detergent may have been used. - The laundry may be heavily soiled. - The load may be large. The following can result in more foam - Too much detergent may have been used. |

| | Problem | Cause and Measures |
|--------------------|--|---|
| Detergent and foam | Fabric softener overflows | - The amount of softener used may have been above the "MAX" line in the detergent drawer. (P. 12) - The detergent drawer may have been closed too strongly and spilt some of the softener. |
| | There is powdered detergent left on the laundry after washing | - Powdered detergent may have been put directly into the drum. →It should be put into the detergent drawer. (P. 12) |
| Noise | There is an unusual noise or vibration | - There may be a metal item in the drum. - The anchor rods may not have been removed. (P. 38) - The appliance may be installed on a slope or an unstable surface. If none of the above is the cause, contact your local Customer Service Centre. |
| | There is noise when water drains out | - This is normal. It is the noise of the drain pump working. |
| Others | There is a power cut during operation | - When power is restored, start operation of the appliance from the beginning. |
| | The circuit breaker trips during operation | - Find and resolve the issue that caused the breaker to trip. Then reset the breaker and start operation of the appliance from the beginning. |
| | The water supply is disrupted | - After the water supply is restored, the water may be discoloured for a short while. →Disconnect the water supply hose, run the tap until the water is no longer discoloured, and reconnect the water supply hose. (P. 41) |
| | The display is unclear | - The appliance may be in a brightly lit or sunlit area. |

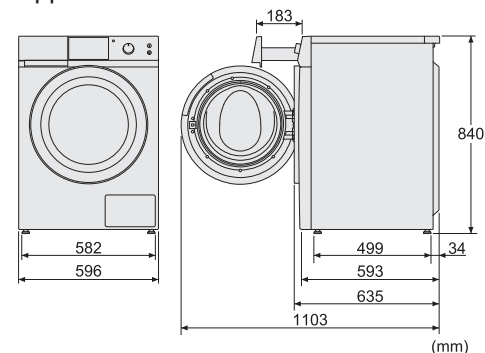
Error Display

| | |
|--|---|
|  Unable to drain | <p>What to do</p> <p>Check the drain hose for any of following problems:</p> <ul style="list-style-type: none"> - It is blocked with debris. - Hose tip is immersed in water. - It extends further than 3 m. - Water in the pipe is frozen. <p>Clean the drain filter if blocked. (P. 31)</p> <p>After correcting the problem, open the door then close it, then press the start button to restart the machine.</p> |
|  Door is open | <p>What to do</p> <p>Make sure that door is closed properly.</p> <p>Close the door securely and press the start button.</p> |
|  Unable to supply water | <p>What to do</p> <p>Check for any of following problems:</p> <ul style="list-style-type: none"> - Supply tap is closed. - Water pipe or hose is frozen. - Water supply has been disrupted. - Water supply filter is blocked. (P. 29) <p>After correcting the problem, open the door then close it, then press the start button to restart the machine.</p> <p>If the red mark appears in the hose with a water supply valve, the water supply has stopped.</p> <p>Replace with a new hose.</p> <p>Hose with water supply valve (No. AXW-598865)</p> |
|  | <p>An error starting with "H" is displayed.</p> <p>What to do</p> <p>Press the Off button. If the display stays on, or if the error message appears again when you press the Start button, unplug the machine and contact your local Customer Service Centre.</p> |

Choosing the Right Location

- Make sure to ask a service person for installation. Do not install by yourself.
- If the installation, test run and inspection of the washing machine are not carried out following this installation method, Panasonic will not be liable for any accident or damage caused.

Appliance dimensions

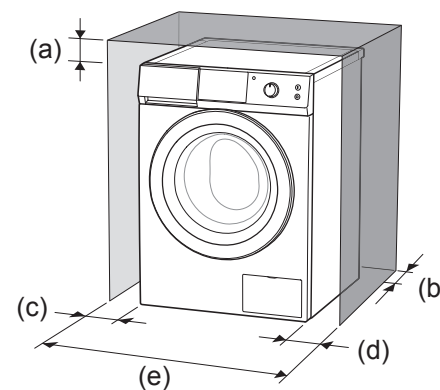


■ Locations the appliance is not to be installed

- In a damp place or where the appliance may be exposed to rain, etc. (As this could cause electric shock or fire)
- Locations that are uneven, or unstable (As this could cause vibration and noise)
- In direct sunlight (As this could cause a malfunction or deformation)

CAUTION

Do not install where temperatures may reach freezing.



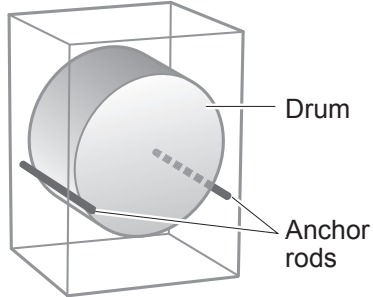
■ Set-in installation

- Install the appliance with easy access to the mains plug and socket.
 - Install the appliance where there is enough space around it.
- (a): 3 mm or more above
 (b): 3 mm or more behind
 (c): 2 mm or more on the left side
 (d): 2 mm or more on the right side
 (e): 60 cm or more

Moving and Installing

Removing the anchor rods

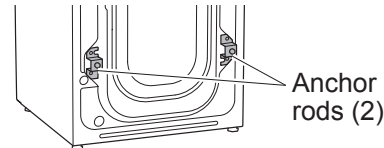
The anchor rods keep the interior of the appliance in place, and protect it from vibration during transportation.



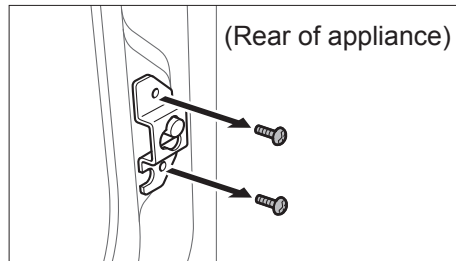
NOTE

- Operating the appliance with anchor rods still attached will cause excessive vibration. They must be removed before operation.
- Store the anchor rods and brackets. They will be needed when the appliance is moved again in the future.
- When moving the appliance again, the anchor rods and brackets must be attached to the appliance. Attach the anchor rods in the reverse order they were removed. If having difficulty on positioning the anchor rods, try the following:
 - Insert the anchor rod while turning it.
 - Insert and position two anchor rods in parallel at the same time.
 - Insert the anchor rod while moving the drum a little.

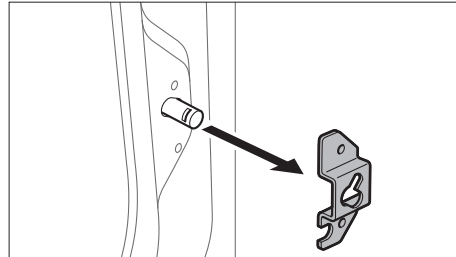
How to remove



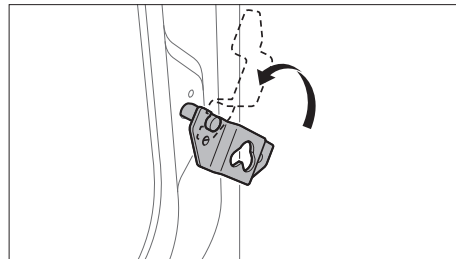
1 Remove two screws.



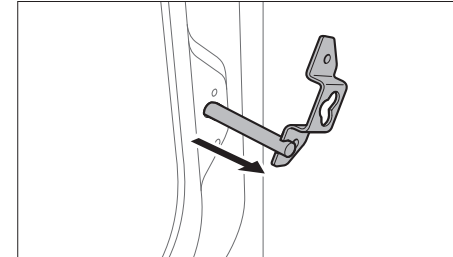
2 Remove the bracket.



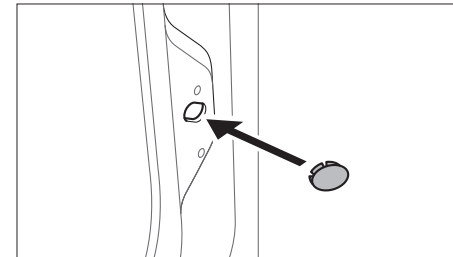
3 Set the bracket to the groove of the anchor rod, and turn 90 degrees.



- 4 Pull the anchor rod out. The rod stops twice during removal. Pull the rod while turning it.

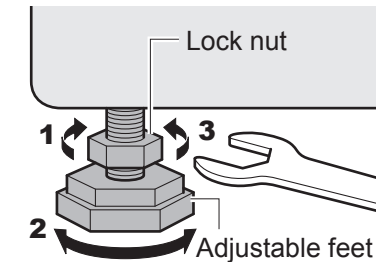
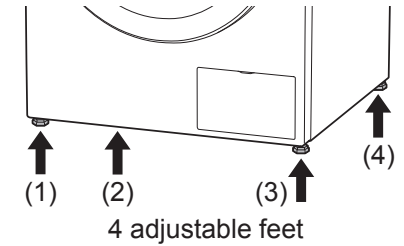


- 5 Attach the cover cap to the hole. If the caps are not attached, foreign objects may enter the appliance and cause a malfunction.



Levelling the appliance

Prepare a No.17 spanner. (sold separately)



- 1 Loosen the lock nut with the spanner.
- 2 Turn the adjustable foot to adjust the height.
- 3 Tighten the lock nut. (A spirit level is useful for making sure the appliance is level.)

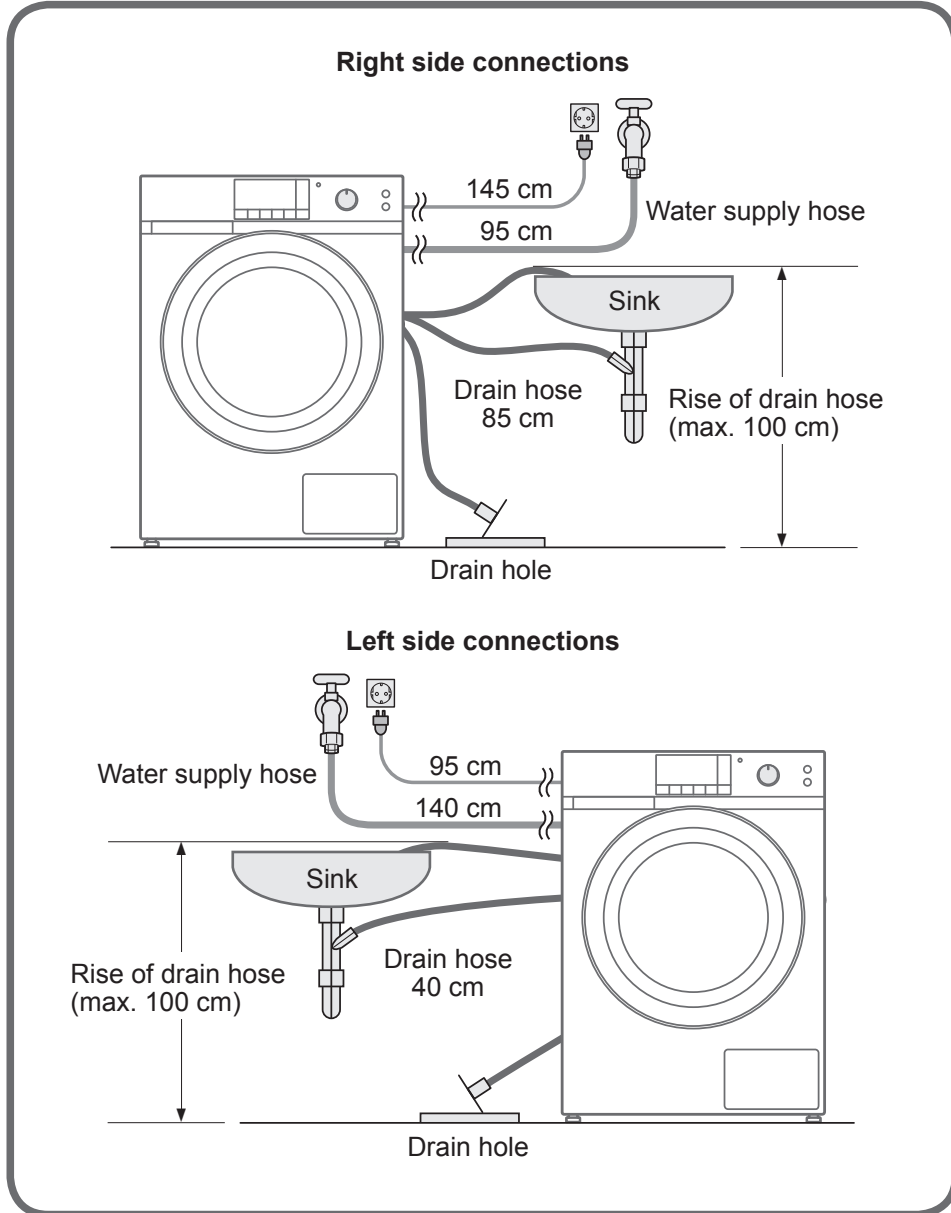
NOTE

- Make sure that all lock nuts are tightened securely and the adjustable feet are still bolted to the appliance. If they are unbolted, the appliance will shake and move around.

Connecting the Hoses

Connect the hoses properly to prevent water leaks.

■ Maximum connection distance of hoses and mains lead



Water supply hose

■ Mains water pressure and water flow

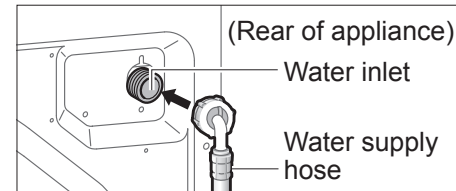
- Water pressure: 0.03-1.0 MPa
If the water pressure exceeds this value, fit a pressure reducing valve.
- Water flow from tap: 5 L/min. or more

■ Connecting the water supply hose

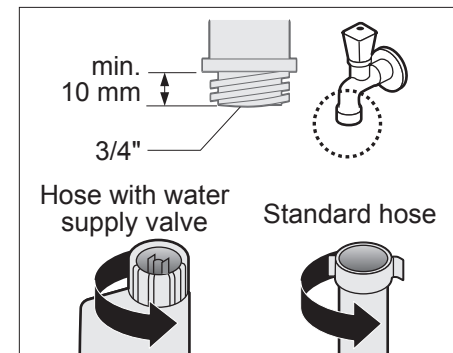
CAUTION

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

- 1 Attach one end of the hose to the water inlet on the appliance and tighten by hand.



- 2 Attach the other end of the hose to the tap and tighten by hand.



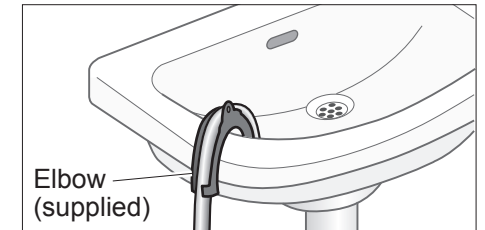
- 3 Turn on the tap slowly and make sure there are no leaks.

Drain hose

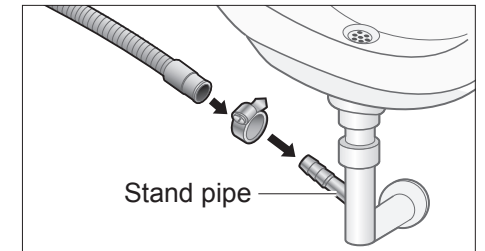
■ Draining to a sink or wash basin

CAUTION

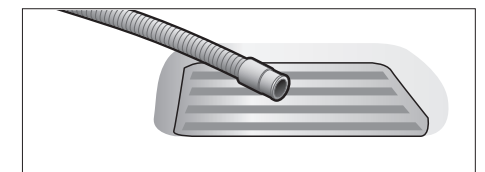
Secure the drain hose with an elbow so that it does not come off by water pressure during drainage.



■ Draining to a stand pipe



■ Draining to a drain hole



NOTE

- Do not twist, pull out or bend the drain hose.
- Do not put the hose tip under water.

Checking after Installation

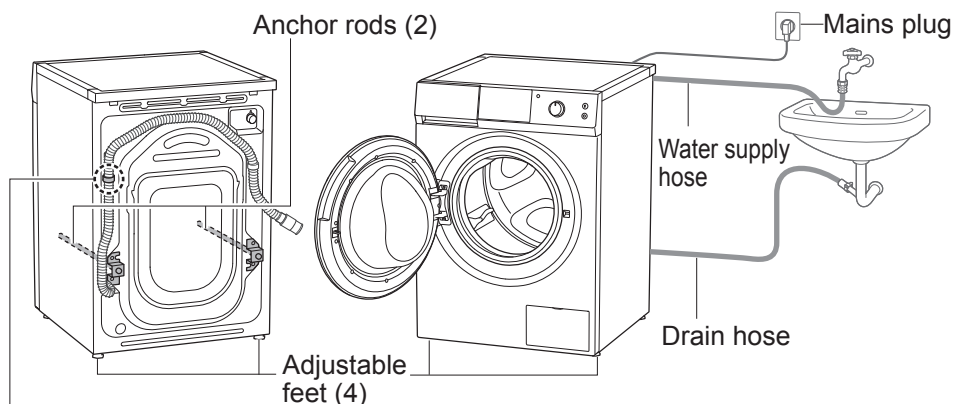
Appliance parts checklist

Anchor rods

- Have you removed all 2 anchor rods and fitted cover caps? (P. 38, 39)

Mains plug

- Is the appliance plugged into an AC 220-240 V household mains socket? (see back cover)



Do not remove the fastener of the drain hose in the upper left.

Adjustable feet

- Are they stable and securely tightened? (P. 39)
- Is the appliance level? (P. 39)

Water supply hose

- Is the water supply hose properly connected? Is it free from leaks? (P. 41)

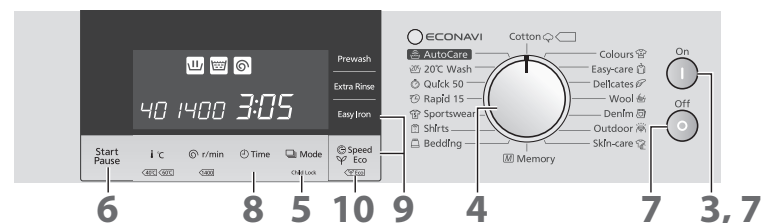
Installation place

- Is the appliance on a flat, stable surface?
- Does it run without vibrating? (P. 39)

Drain hose

- Is the drain hose properly connected? Does it drain normally? (P. 41)

Test run



- 1 Turn on the tap.
- 2 Close the door without any laundry in the drum.
- 3 Switch on the appliance.
- 4 Select the “Quick 50” programme.
- 5 Select .
- 6 Start operation.
- 7 Switch the appliance off and on.
- 8 Select .
- 9 Press for about 5 seconds. is displayed.
- 10 Press while is displayed to start test run. is displayed.

Operation finishes after about 3 minutes.

Water leaks

- Check the appliance and hose joints for leaks. (P. 40)

Abnormal noise

- Make sure the appliance is level. (P. 39)



Error display

- Unable to drain (P. 36)
- Unable to supply water (P. 36)
- After resolving an error, open and close the door and press “Start/Pause” to resume the test.

Electrical Connection (For UK and Republic of Ireland)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded 3-pin mains plug for your safety and convenience.

A 13-ampere fuse is fitted in this plug. Should the fuse need to be replaced, ensure that the replacement fuse has a rating of 13 amperes and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover, ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, do not use until a replacement fuse cover is purchased from your local dealer.

WARNING

If the fitted moulded plug is unsuitable for the mains socket in your home then the fuse should be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.

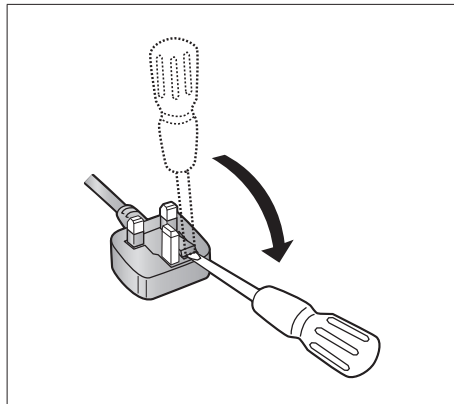
How to replace the fuse

The location of the fuse differs depending on the type of AC mains plug (Figures A and B).

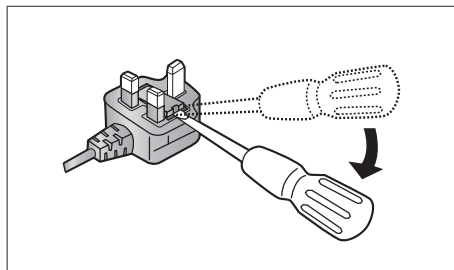
Confirm the AC mains plug is fitted and follow the instructions below. Illustrations may differ from the actual AC mains plug.

Open the fuse cover with a screwdriver and replace the fuse and close or attach the fuse cover.

- Figure A



- Figure B



Consider the Environment

Disposing of packaging

The packaging used to protect the washing machine from damage during transportation is all recyclable. For information on recycling, contact your local authority.

Disposal of Old Equipment Only for European Union and countries with recycling systems



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment. For more information about collection and recycling, please contact your local municipality.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

Recommended detergent in accordance with the Regulation (EU) No. 1015/2010

Select the appropriate detergent for better results.

- **Standard detergent for heat-resistant white laundry (Cold - 90 °C)**
Programme; "Cotton", "Quick 50", or "AutoCare"
- **Detergent for colours without bleach or optical brighteners for coloured laundry (Cold - 40 °C)**
Programme; "Colours", "Denim" or "AutoCare"
- **Detergent for Delicates without optical brighteners for delicate, fine fabric (Cold - 40 °C)**
Programme; "Delicates"
- **Detergent for woollens fabrics (Cold - 40 °C)**
Programme; "Wool"
- The available temperature range differs depending on the programme. (P. 20)

When using a tumble dryer

To save energy, please select the correct spin speed according to the instruction of your tumble dryer.

Power and Water Consumption

| Programme | Temperature | Eco function is selected | Load | Power consumption*2 | Water consumption*2 | Time*2 |
|---------------------|-------------|--------------------------|----------|---------------------|---------------------|--------|
| ☁ Cotton | 40 °C | – | 8 kg | 1.06 kWh | 94 L | 3:05 |
| | 40 °C*1 | Eco | 4 kg | 0.40 kWh | 40 L | 3:00 |
| | 60 °C*1 | Eco | 8 kg | 0.63 kWh | 50 L | 3:45 |
| 4 kg | | | 0.48 kWh | 40 L | 3:25 | |
| 🧺 20 °C Wash | 20 °C | – | 4 kg | 0.22 kWh | 50 L | 1:36 |
| 🕒 Quick 50 | 40 °C | – | 4 kg | 0.61 kWh | 40 L | 0:50 |
| ⚡ Rapid 15 | 30 °C | – | 2 kg | 0.16 kWh | 23 L | 0:15 |
| 👕 Easy-care | 40 °C | – | 4 kg | 0.67 kWh | 64 L | 2:32 |
| 🧶 Wool | 30 °C | – | 2 kg | 0.28 kWh | 55 L | 0:40 |
| 👔 Shirts | 40 °C | – | 2 kg | 0.53 kWh | 35 L | 1:16 |
| 🧤 Delicates | 40 °C | – | 4 kg | 0.75 kWh | 48 L | 1:06 |

*1 Results are calculated based on the usage of the Eco function and the maximum spin speed, in compliance with EN 60456.

*2 The power, water consumption and time indicated in the table may vary depending on variations in pressures, water hardness and temperatures, room temperatures, types and amounts of laundry, voltage fluctuations and functions to be used.

Product Fiche

| | | | |
|---|----------------------------|------------|-----------|
| Supplier's name | | | Panasonic |
| Supplier's model identifier | | | NA-148XR1 |
| Rated capacity of cotton for the standard cotton programme | at 60 °C with full load | in kg | 8 |
| | | | |
| Energy efficiency class | | | A+++ |
| Weighted annual energy consumption* | | kWh / year | 117 |
| *Energy consumption "X" kWh per year, based on 220 standard washing cycles for cotton programmes at 60 °C and 40 °C at full and partial load, and the consumption of the low-power modes. Actual energy consumption will depend on how the appliance is used. | | | |
| Energy consumption of the standard cotton programme | at 60 °C with full load | kWh | 0.63 |
| | at 60 °C with partial load | kWh | 0.48 |
| | at 40 °C with partial load | kWh | 0.40 |
| Weighted power consumption | Off-mode | W | 0.2 |
| | Left-on mode | W | 0.2 |
| Weighted annual water consumption* | | L / year | 9750 |
| *Water consumption in litres per year, based on 220 standard washing cycles for cotton programmes at 60 °C and 40 °C at full and partial load. The actual water consumption will depend on how the appliance is used. | | | |
| Spin-drying efficiency class on a scale from G (least efficient) to A (most efficient) | | | B |
| Maximum spin speed attained for the standard cotton programme | at 60 °C with full load | r/min | 1400 |
| | at 40 °C with partial load | r/min | 1400 |
| Remaining moisture content attained for the standard cotton programme | at 60 °C with full load | % | 53 |
| | at 40 °C with partial load | % | 53 |
| The standard 60 °C and 40 °C cotton programme with Eco option are the standard washing programmes to which the information in the label and the fiche relates. These programmes are suitable to clean normally soiled cotton laundry and are the most efficient programmes in terms of combined energy and water consumption. | | | |
| Programme time of the standard cotton programme | at 60 °C with full load | min | 231 |
| | at 60 °C with partial load | min | 213 |
| | at 40 °C with partial load | min | 193 |
| Left-on mode duration | | min | 1 |
| Airborne acoustical noise emissions | washing phase | dB | 53 |
| | spinning phase | dB | 74 |
| Built-in (Yes/No) | | | No |

(EU)No.1061/2010

Others