

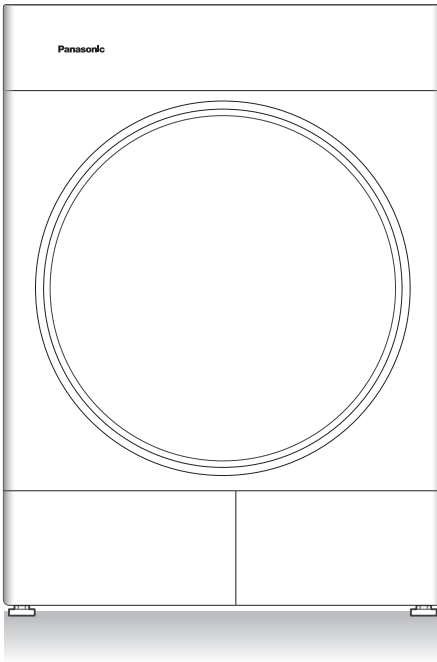
Panasonic®

•nanoeX

Operating & Installation Instructions

Heat Pump Tumble Dryer
(Household Use)

Model No. **NH-XV21X1**



Contents

	Safety Precautions	2
	Checking Your Dryer	6
Installation	Choosing the Right Location	7
	Moving and Installing	8
	Connecting the Hoses	10
	Test Run	11
	Before Drying	13
	Control Panel	14
	Drying rack	16
	Fragrant capsule	17
	Drying	18
	Program List	20
	Drying Tips	22
	Changing Program Settings	24
	Changing Appliance Settings	28
	Maintenance	29
	Troubleshooting	32
	Error Display	35
	Specifications	36

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It is essential to read these instructions.

Thank you for purchasing this product.

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



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Safety Precautions

WARNING

May cause serious injury or death

Children must not use it alone.



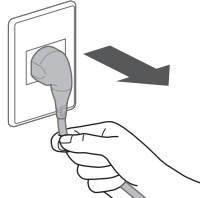
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not hang from the appliance.

May cause fire or electric shock

Do not touch it with wet hands.



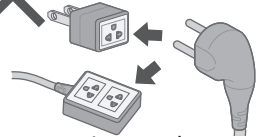
Do not hold or pull on the cord.



Do not use.

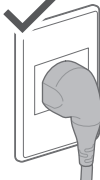


Plug adaptor

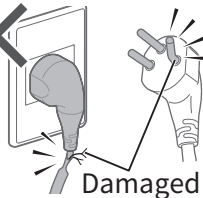


Extension cord

Fully insert it.



Do not use.

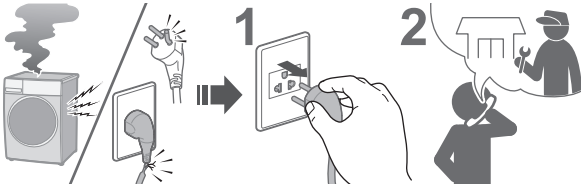


Do not bind, twist, or bend

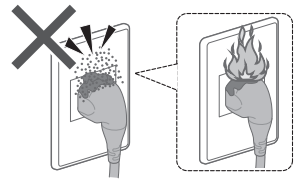


- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

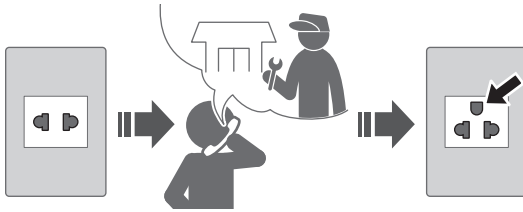
In case of failure or damaged power cord, stop use and ask the electrical technician.



Accumulated dust may cause fire.



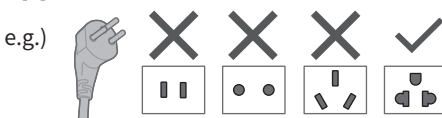
Securely insert the ground prong. Ask the electrical technician for a new socket.



Wipe the power plug periodically.

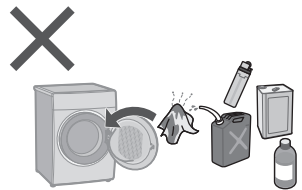


Use a socket appropriate for this appliance.



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

Keep away from flammable materials.



Observe the following.

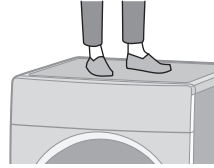
- Never stop the appliance before the end of the drying cycle unless all items are quickly removed and spread out so that the heat is dissipated.
- The appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by a utility.

Safety Precautions (continued)

CAUTION

May cause failure or injury

Do not disassemble, repair or modify it by yourself. **Do not climb on the appliance.**

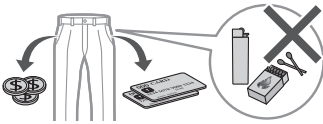


Do not dry items soiled with flammable materials.



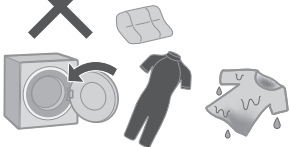
- Items that have been soiled with substances such as cooking oil, acetone, alcohol, petrol, kerosene, spot removers, turpentine, waxes, wax removers and cosmetic oils must not be dried in the appliance even after having been washed.

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.

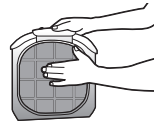


- Items such as foam rubber (latex foam), shower caps, waterproof textiles, airtight fabrics, rubber backed articles and clothes or pillows fitted with foam rubber pads should not be dried in the appliance. Such materials may be destroyed and thereby damage the appliance.
- Do not dry unwashed items in the appliance.
- Do not put in dripping wet clothing.

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

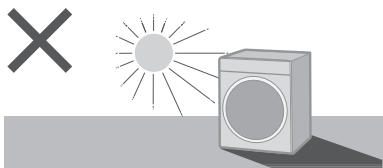


The lint filters have to be cleaned frequently.

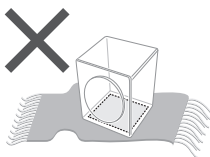


May cause failure or injury

Keep away from heat and direct sunlight.



Do not obstruct.

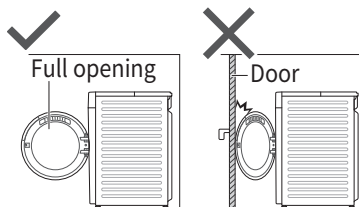


- Do not obstruct the openings of the bottom Plate with carpet, etc.

For machine-dryable items only.



Install the appliance correctly.



Do not touch when it is hot.



- 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.

Be careful not to get your fingers caught.

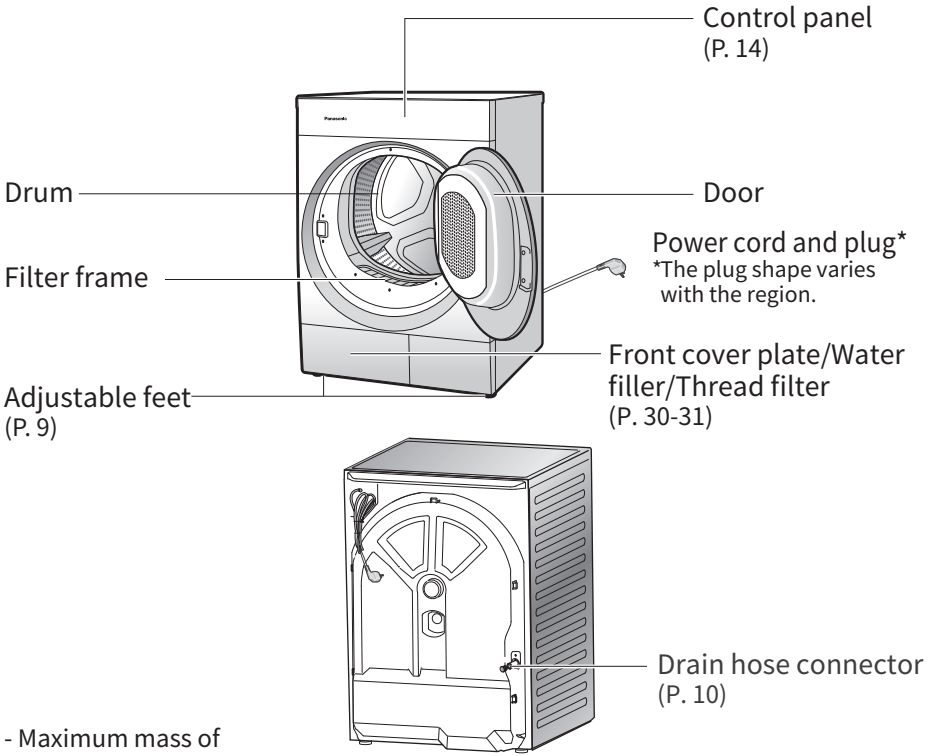


Observe the following.

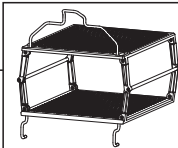
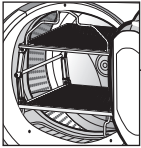
- The appliance is not to be used if industrial chemicals have been used for cleaning.
- Fabric softeners, or similar products, should be used as specified by the fabric softener instructions.

Checking Your Dryer

Part names

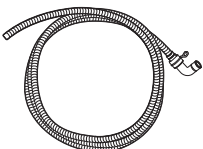


Accessories



Use the drying rack to dry clothes and footwear that are prone to fuzzing or are not suitable for rolling.

Drying rack × 1 (P. 16)



Drain hose and hoop × 1 (P. 10)



Care solution bottle × 1 (P. 22)



Spanner (P. 9)



Fragrant capsule 5 g giveaway × 1 (P. 17)

Choosing the Right Location

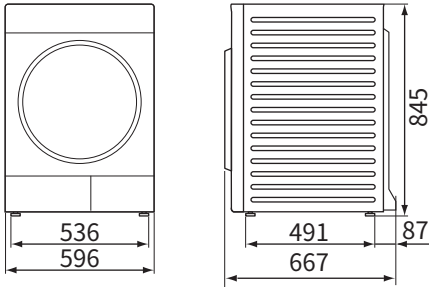


Make sure to ask a service person for installation.

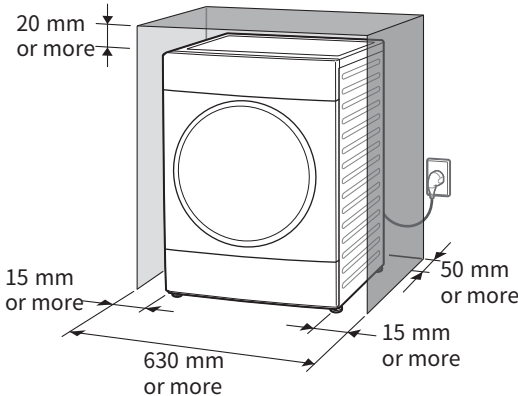
- Do not install the appliance by yourself.
- Follow this installation method. If you do not, Panasonic will not be liable for any accidents or damages.

Appliance dimensions

(mm)

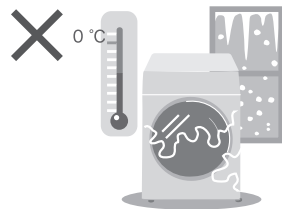
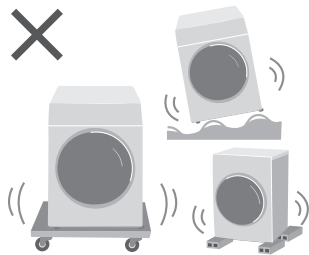
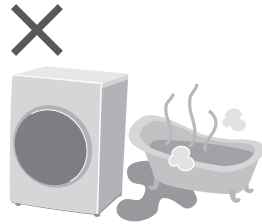
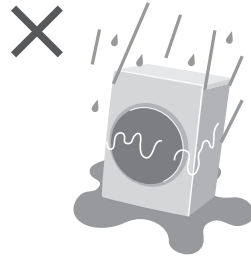


■ Set-in installation



- Install the appliance with easy access to the power plug and socket.
- Do not let the metallic portions of the appliance come into contact with metal sinks or other appliances.

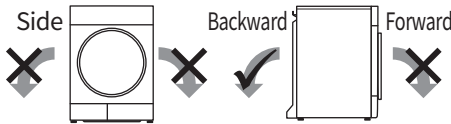
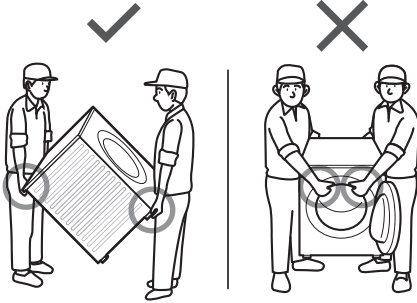
Check the location.



Moving and Installing

Carrying the appliance

Do not do it alone.

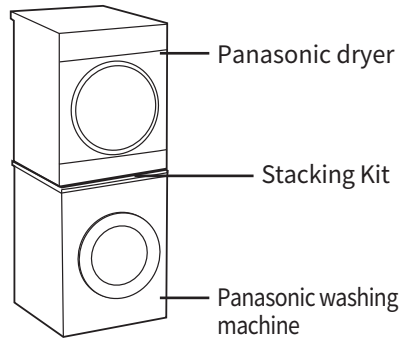


Note

- After handling, please let the unit stand for at least one hour before connecting the power supply, otherwise the heat pump may be damaged.

When stacked and installed

- This unit can be used in combination with some Panasonic washing machines.
- When stacking for use, a Stacking Kit is required. If you need to install it, please contact us for purchase.

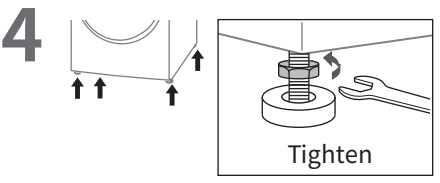
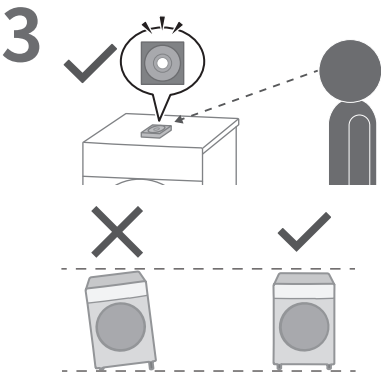
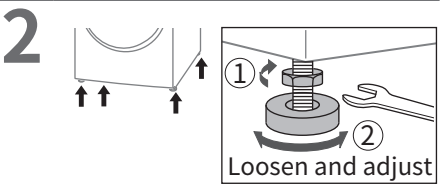
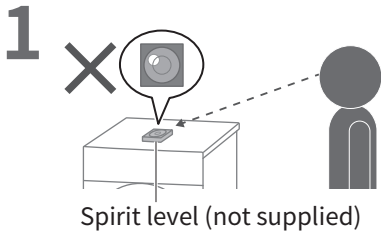


Note

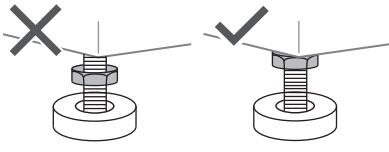
- If Panasonic Stacking Kit is not installed, stacking for use is prohibited.
- During stacking installation, please do not put it on the platform above the ground to prevent it from falling.
- In order to prevent the danger caused by excessive wire load, please do not use high-power electrical appliances at the same time.

Moving and Installing (continued)

Levelling the appliance



NOTE

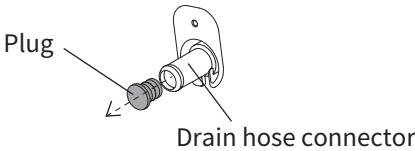


Connecting the Hoses

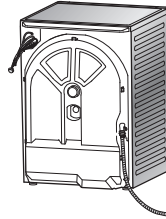
Installation of drain hose

Connect the hoses properly to prevent water leaks.

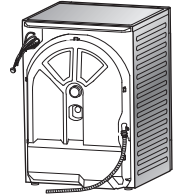
- 1** Take out the plug of the drain hose connector



- Left drainage

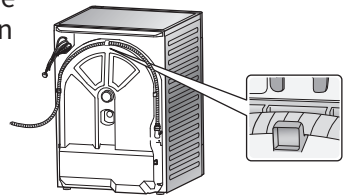


- Rear drainage

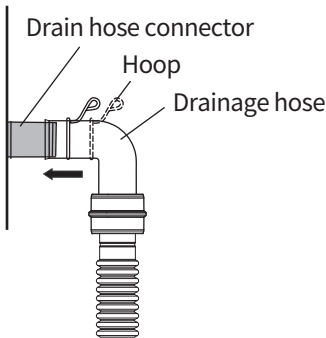


- 2** Insert the drain hose into the drain hose connector. When it is difficult to insert the drain hose, please apply the detergent on the outside of the drain hose connector.

- Right drainage



- 3** Move the hoop to the inside.



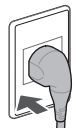
- 4** Insert the drain into the drain house, and the height of the drain hose shall not exceed the unit body. If the drain hose is too high, the water will not be discharged.

Note

- Do not twist, pull or bend the drain hose, which may lead to poor drainage.
- Do not block the drain and ensure smooth drainage.
- Do not immerse the drain in stagnant water, which may cause water to flow back into the unit or poor drainage.
- If the drain hose is not long enough, users can contact us to buy an extended hose.

Test Run

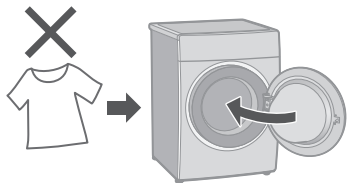
1



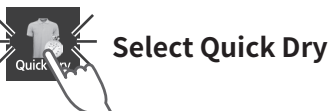
3



2



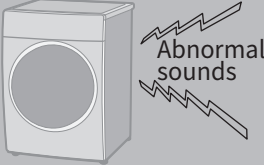
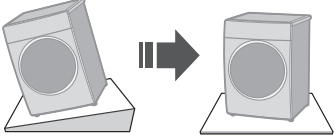
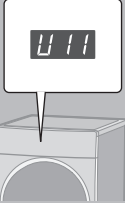
4



5

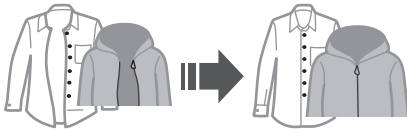
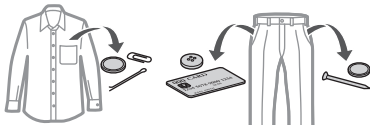


Test Run (continued)

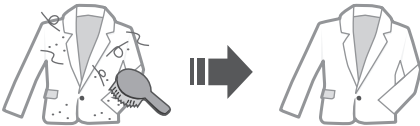
Checking after test run	
Problem	Causes and Measures
 <p>Abnormal sounds</p>	<ul style="list-style-type: none">● Install stably 
Error display 	See P. 35

Before Drying

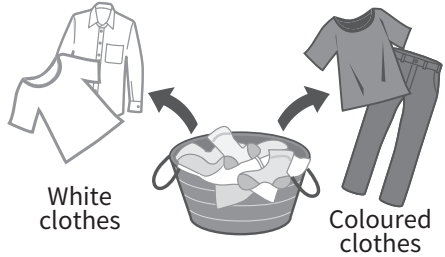
Preparing laundry



Clothes likely to pill



Dry separately

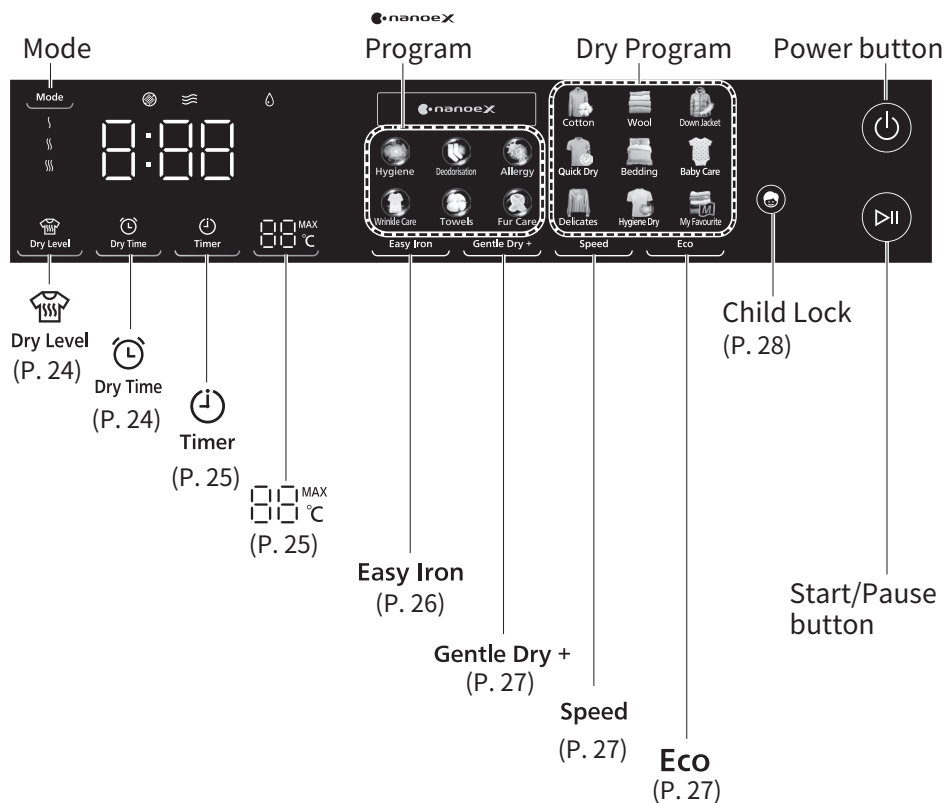


- Observe care labels.



Classify the clothes for care or dry them according to the fabric and texture to avoid clothes damage. If clothes with different thicknesses or multi-layer fabrics are dried at the same time, the drying effect will be different.

Control Panel



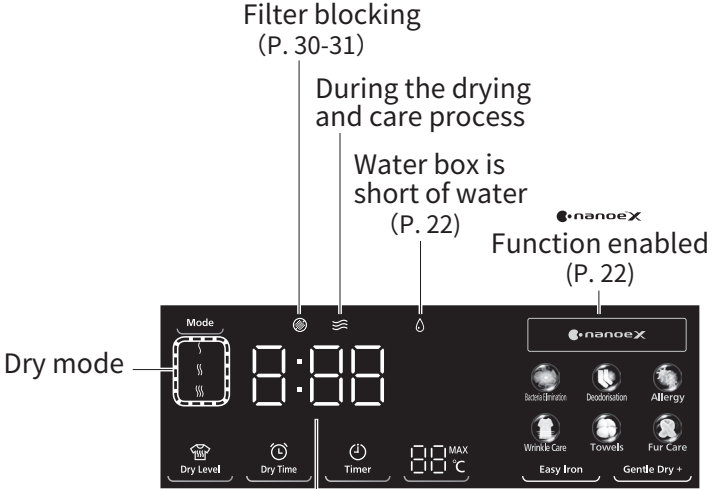
Touch operation

Operation buttons are capacitive.

- If water, detergent or softener gets on, turn off and wipe off with a towel etc. immediately. (Cause of malfunction)
- Press and hold this button to turn on or off the power.
 - ※During standby, touch the program selection dial or any button to wake this button.



Display



Remaining time



Error display (P. 35)



NOTE

- Turn off ➡ back on



- No operation ➡ auto power off

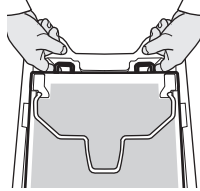


- In case of a power failure
 - ➡ The appliance stops running, Even if the power supply is recovered, the appliance will not run again. Switch on the power and restart the appliance.

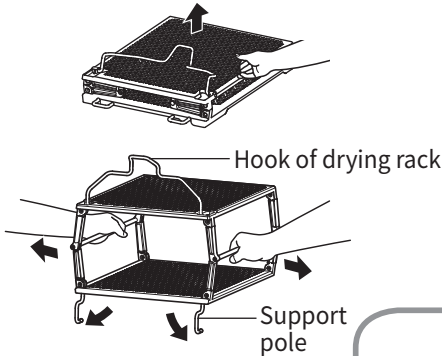
Drying rack

- When drying wool and wool blend clothes, please select the wool program and use it with the drying rack, otherwise it may cause fuzzing of wool products. (Spread the clothes as much as possible, otherwise the drying effect will be affected.)
- The drying rack can also be used to dry clothes and shoes that are prone to fuzzing and are not suitable for rolling, and can be used with the My Favourite program.

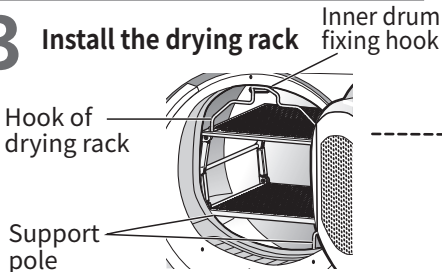
1 Take out the drying rack



2 Unfold the drying rack



3 Install the drying rack



1. Spread the drying rack and extend it obliquely into the drum.
2. Hang the upper hook of the drying rack onto the inner drum fixing hook.
3. The drying rack is naturally relaxed, with the two support pole supporting the inner drum.

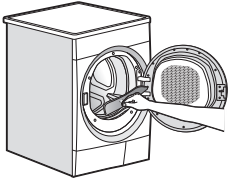
4 Make sure it is installed in place with no shaking.

- After using the drying rack, please put it away properly.
- In the open state, do not place heavy objects on it to avoid damaging the folding part of the rack.
- When unfolding, beware of the folding part pinching hands.

Fragrant capsule

In drying, fragrance capsules can be used together to add pleasant fragrance to clothes.
(Fragrant capsules are consumables and can be purchased from our company)

1 Take out the filter frame.



4 Rotate the fragrance capsule to control the fragrance concentration.

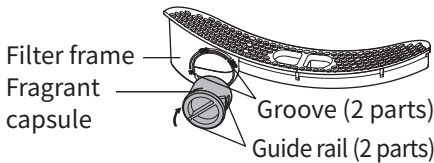


2 Tear open the fragrance capsule package.



5 When taking out the fragrance, rotate it counterclockwise and pull it out.

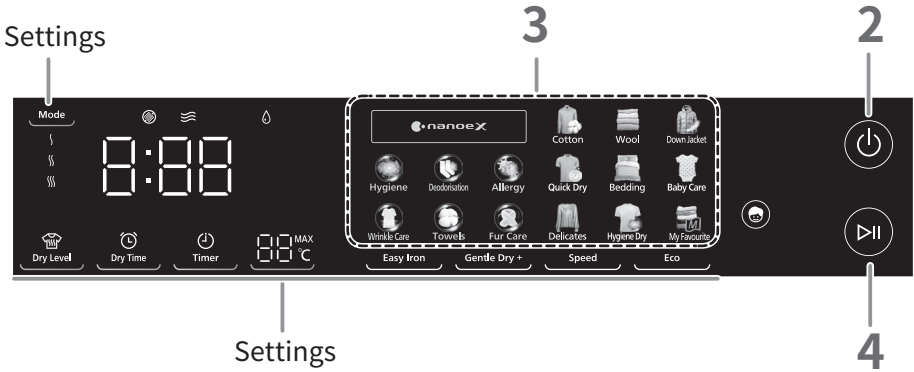
3 Align the fragrance capsule guide rail (2 parts) with the groove (2 parts) of the filter frame and screw it in clockwise.



- In order to avoid volatilization of the fragrance, it is recommended to take out the fragrance capsule, seal it with a plastic bag and keep it properly when this function is not used for a long time.
- The fragrance capsule has a capacity of 10 g, with a normal service life of about 50 hours. If you feel that the fragrance fades or disappears, please replace the fragrance capsule.

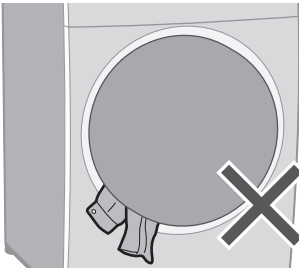
Drying

Basic Method

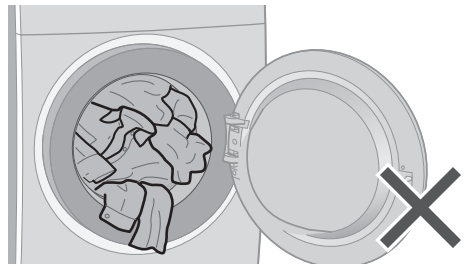


NOTE

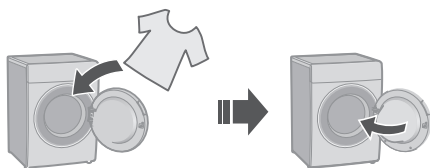
■ Do not let laundry get caught in the door.



■ Do not overfill the drum with laundry.



1



2



On

3

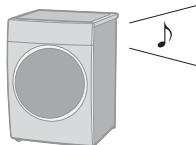


Select a program.

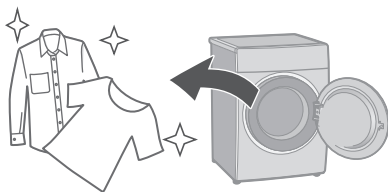
(P. 20)

■ Changing the settings.

4



5



Settings

Mode

⋄

⋄⋄

⋄⋄⋄



Dry Level



Dry Time



Timer

88 MAX °C


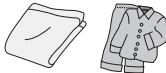

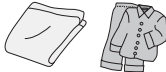








Easy Iron

Gentle Dry +


















Speed

Eco

Program List

Program	Description	Max load (kg)	Total time
 Hygiene	<ul style="list-style-type: none"> Coat, towel, underwear, plush toys and other clothing. 	1.0	1:00
 Deodorisation	<ul style="list-style-type: none"> Coat, sweater, towel, underwear, pet products and other clothing. 	1.0	0:35
 Allergy	<ul style="list-style-type: none"> Coat, underwear, bedding, plush toys and other clothing. 	1.0	2:00
 Wrinkle Care	<ul style="list-style-type: none"> Lightweight cotton shirts and ironing-free shirts. 	1.0	0:45
 Towels	<ul style="list-style-type: none"> Down jacket, towel clothing. 	1.0	0:55
 Fur Care	<ul style="list-style-type: none"> Sable fur coat, coat and fur collar. 	1.0	0:15

- It is recommended to put only one large piece of clothing. Excessive clothing will affect the drying and care effect.
- According to different clothing loads, fabrics, moisture content and ambient temperature, the actual dry time and display time are different.
- If wet clothing are dried by other means than timed drying, the running time may be extended.
- A small load of clothing (below 0.5 kg) is recommended to be dried by timed drying.
- The display time of Cotton Eco/Speed is based on the clothing load of 6 kg in the ready-to-wear mode and at the dehydration speed of 1000 rpm.
- Select the "My Favourite" program to dry freshly de-watered clothes. When selecting 65 °C, please select more than 1 hour and 20 minutes for the dry time; when selecting 40 °C, please select more than 2 hours for the dry time, or additional dry time according to the amount of clothes.

Program	Description	Max load (kg)	Total time
 Cotton	<ul style="list-style-type: none"> ● Cotton, linen and cotton mixed clothes. 	10.5	<u>(Eco)2:30</u> (Speed)1:50
 Wool	<ul style="list-style-type: none"> ● Wool and wool blend clothes. (The drying rack must be used. Spread the clothes as much as possible, otherwise the drying effect will be affected.) 	one piece	0:20 ~ 3:00
 Down Jacket	<ul style="list-style-type: none"> ● For down clothing, effectively protect the down. 	2.0	2:00
 Quick Dry	<ul style="list-style-type: none"> ● Cotton, linen, synthetic fibers or mixed clothing in small quantities or in a semi-dry state. 	1.5	0:40
 Bedding	<ul style="list-style-type: none"> ● Blankets, bedspreads and other large items. 	4.5	2:30
 Baby Care	<ul style="list-style-type: none"> ● Clothing for babies. 	4.0	<u>(Eco)2:10</u> (Speed)1:40
 Delicates	<ul style="list-style-type: none"> ● Clothing made of silk fabrics. 	1.0	1:00
 Hygiene Dry	<ul style="list-style-type: none"> ● Cotton clothes, underwear, towels, baby clothes, etc. 	6.0	3:40
 My Favourite	<ul style="list-style-type: none"> ● Set the drying time and temperature according to your needs. 	4.0	0:30 ~ 3:00

Drying Tips



- This program is suitable for care of dry clothing and cannot be used for drying clothing.
- Please make sure that there is enough pure water in the water box before running the program.

1



On

2



3



Start

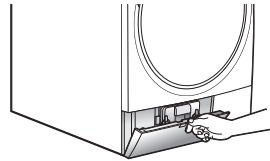
- The following conditions indicate that the water box is short of water. (Except for "Hygiene" and "Allergy" program)



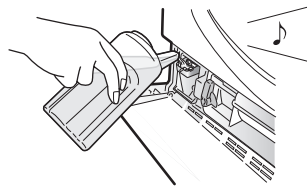
Flash

Follow the steps below

- ① Gently press the upper part of the front cover to pop it open.



- ② When the water is filled to a certain level, the water level detection will ring to remind the user that the water is full.

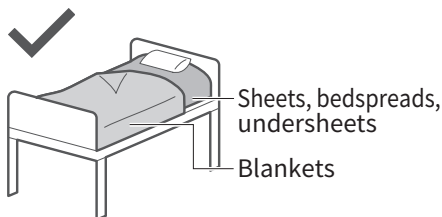


- Please make sure to use pure water. Using water with impurities may lead to channel blockage.
- If the filter is blocked by dust, please remove it and clean it up. (P. 31)

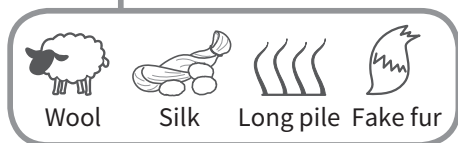
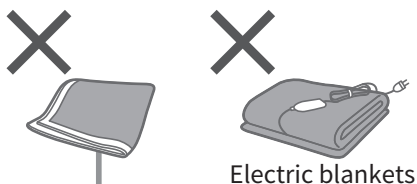
Bedding

■ Dryable items

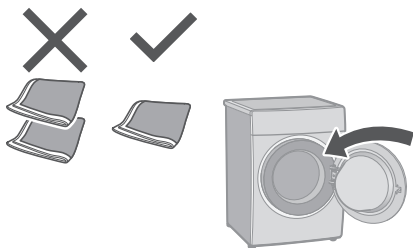
- 100 % cotton or 100 % synthetic



■ Not dryable items

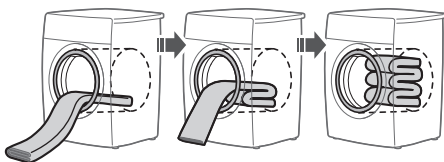
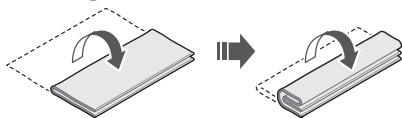


NOTE

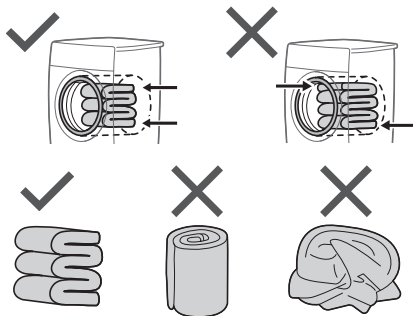


- When drying large items such as sheets, if the clothing are wrapped in balls and the inner core is wet, please shake them before drying.

■ Putting blankets into the drum



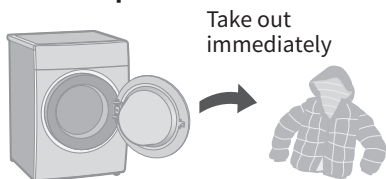
NOTE



Down Jacket

Please select "Down Jacket" program for down clothing, otherwise it may damage the clothing.

■ After operation ends



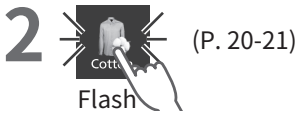
- Dry in the shade and gently tap from time to time.



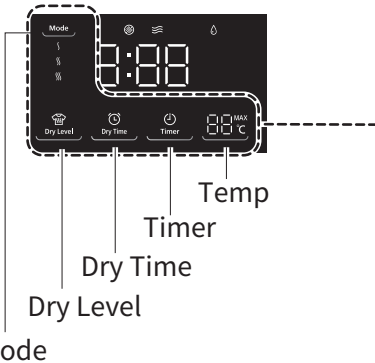
Changing Program Settings

■ Preparing

- Sort the laundry and put it into the drum. (P. 13)



3 Change the program's settings.

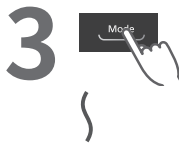
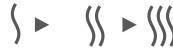


- Available options and setting ranges are different depending on the program.
- An alarm sounds if you select an option that is unavailable.



Mode	Dry Time
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Select dry mode



Clothing contains a little moisture, which is convenient for ironing.



The dryness of clothing is suitable for direct wearing.



Those with high dryness can be directly put into the wardrobe.

After selecting "Wool" and "My Favourite" programs, press this button to set the dry time. In "Wool" program, the time is increased by 20 minutes, and it can be set up to 3 hours; In "My Favourite" program, the time is increased by 10 minutes, and it can be set up to 3 hours.



Dry Level

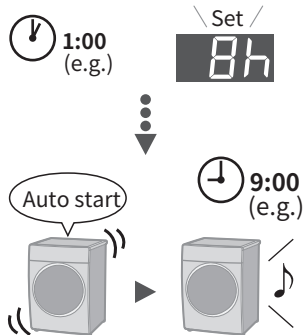
Change the dry level.



It is displayed in cycles with numbers 1-5. The larger the number, the higher the dry level.

Timer

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



■ To check a preset time



■ To cancel settings



Turn off

(All settings are cancelled)

NOTE



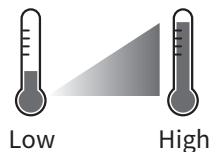
Start

All indications
turn off except



Temp

Change the drying temperature.

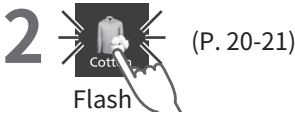


Temperature circulates from 40 °C to 65 °C, and is 55 °C by default, and press once to increase by 5 °C. This function is only for "My Favourite" program.

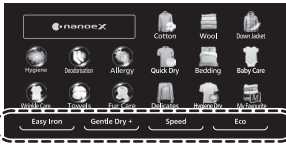
Changing Program Settings (continued)

■ Preparing

- Sort the laundry and put it into the drum. (P. 13)



3 Change the program's settings.

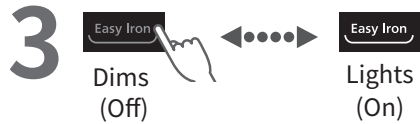



- Available options and setting ranges are different depending on the program.
- An alarm sounds if you select an option that is unavailable.



Easy Iron

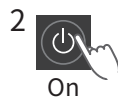
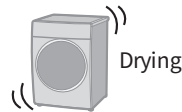
In order to reduce the wrinkles of clothing and the temperature in the drum, the drum will rotate intermittently for up to 2 hours.



After drying,  will flash to indicate that the unit is in Easy Iron and cooling state.

(You can open the door to take out the clothing at any time during this period)

- When the operation starts, all functions except the child lock can not be changed. If you need to change, please power off and reset.



Gentle Dry +

Dry clothing gently with warm air.

3



Speed

Quick dry function.

3



Eco

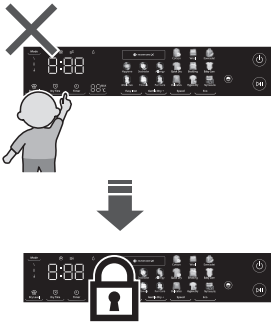
Eco function.

3

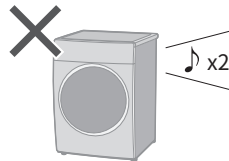
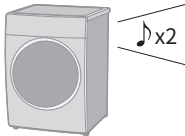
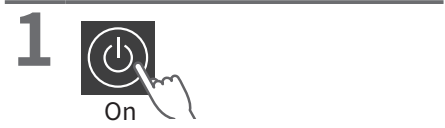
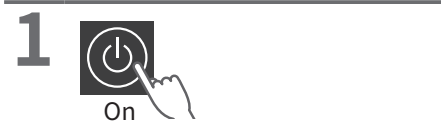
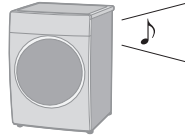


Changing Appliance Settings


Setting the Child Lock



Cancelling the buzzer




■ To cancel:

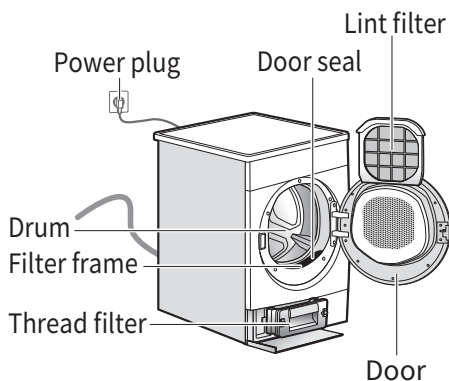
Same procedure  x4



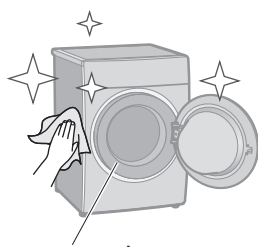
■ To reset:

Same procedure  x4

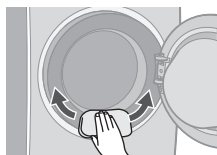
Maintenance



Appliance

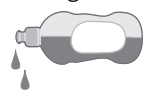


Door seal

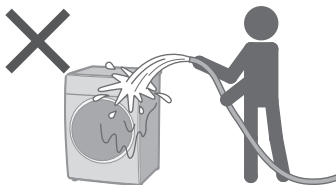


For heavy soil

Mild kitchen
detergent



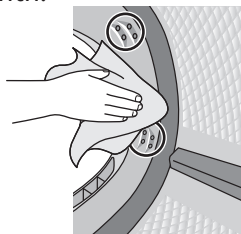
NOTE



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

Humidity sensor

It is recommended to clean the humidity sensor at least once a month.



1. Open the door.
2. Clean the surface of the humidity sensor with a damp sponge.

The humidity sensor is located inside the drum.

NOTE



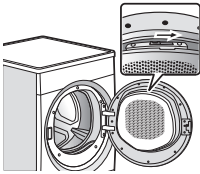
- Do not use wire sponge or other rough materials for cleaning.

Maintenance (continued)

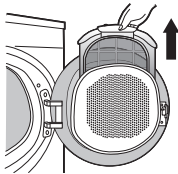
The lint filters

Clean the lint filter after each drying.

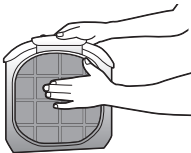
- 1 Open the door and slide the slide bar at the top of the door to the right.



- 2 Pull out the lint filter.



- 3 Clean up the lint adhered on the filter screen.



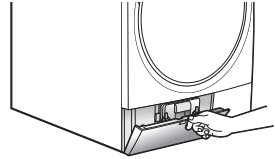
- 4 Restore the lint filter to its original position and slide the slide bar to the left to lock it.



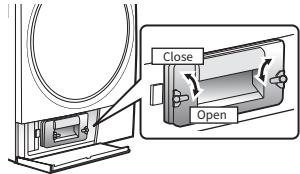
Thread filter

Please clean the thread filter regularly every month.

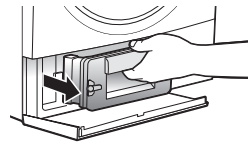
- 1 Gently press the upper part of the front cover to pop it open.



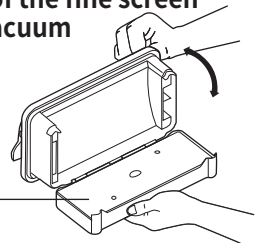
- 2 Turn the 2 levers respectively.



- 3 Pull out the thread filter horizontally.



- 4 Open the thread filter as shown in the figure, and clean the surface of the fine screen with a vacuum cleaner.

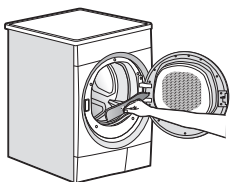


- 5 Restore all parts in their original positions.

Frame filter

Clean the foreign matters or particles accumulated on the filter frame, if any.

- 1 Open the door and remove the filter frame at the lower part of the door frame.



- 2 Clean the foreign matters on the filter frame.

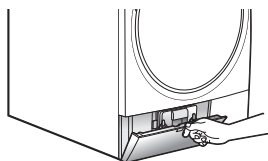


- 3 Restore the filter frame to its original position.

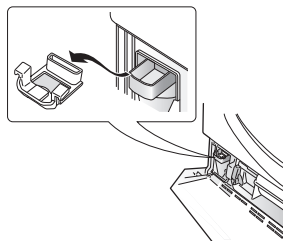
Water filler

To avoid the filter is blocked by dust, please clean it regularly.

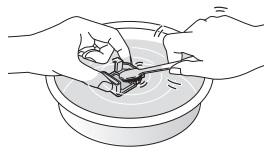
- 1 Gently press the upper part of the front cover to pop it open.



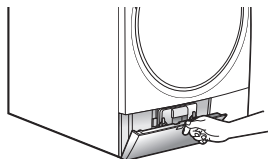
- 2 Take out the water filler filter.




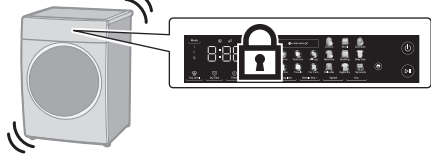

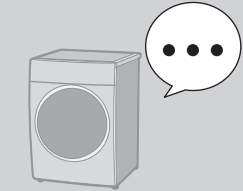

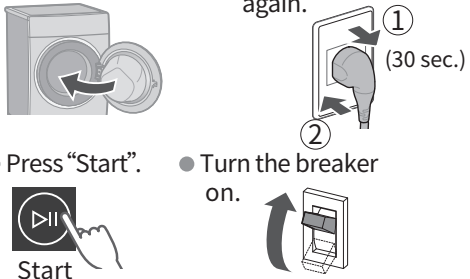

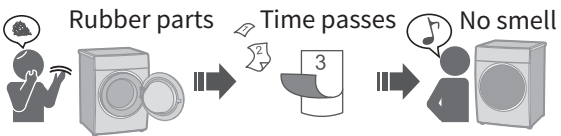
- 3 Clean the filter.



- 4 Restore the filter to its original position and close the front cover.




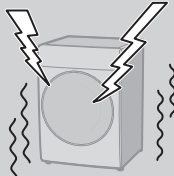

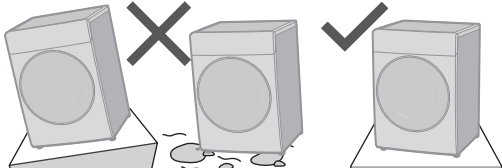
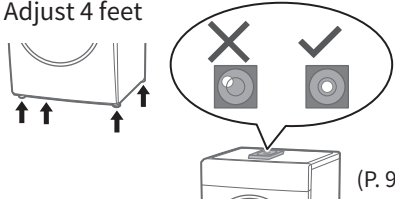




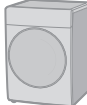


Troubleshooting

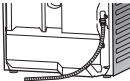
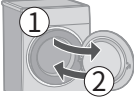








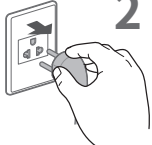

	Symptoms	Points to be checked
Main unit	<p>Touch the buttons</p> 	<p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> ● During an operation  <p><input type="checkbox"/> Try</p> <ul style="list-style-type: none"> ● Child Lock (P. 28) 
	<p>No operation</p> 	<p><input type="checkbox"/> Check</p> <ul style="list-style-type: none"> ● Power cut ● Timer  <p><input type="checkbox"/> Try</p> <ul style="list-style-type: none"> ● Close the door. ● Unplug and insert again. ● Press "Start". ● Turn the breaker on. 
	<p>Odour of rubber</p> 	<p><input type="checkbox"/> Possible cause</p> 

	Symptoms	Points to be checked
Run	Intermittent operation.	- This is not a fault; After the "Easy Iron" function is set, the inner drum will rotate slowly intermittently.
	The filter is not blocked, but the warning light for filter blockage flashes.	- Even if the filter is cleaned, the indicator light may flash, which is not a fault; After the user uses the program for 10 times, the warning light for filter blockage will flash to remind the user to clean the filter.
	Running sound changes.	- This is normal; It is caused by the switch of compressor and drain pump.
	Display“ 0:00 ”.	- This is not a fault; It is used to remind the user that the drying has been completed, but the temperature of the inner drum is high, and the air supply will be cooled for up to 40 minutes; If the "Easy Iron " function is set, the drum will rotate intermittently for up to 2 hours. In the meantime, you can touch the "Start/ Pause" button at any time and then open the door to take out the clothing.
Lighting	The inner drum lighting goes out.	- When the door is opened, the inner drum lighting will light up for 10 minutes and then go out automatically. If you need to light it again, please close the door and open it again.

Troubleshooting (continued)

	Symptoms	Points to be checked
Time	<p>During a dry Displayed time</p> <p>0:57 ... 0:59 Changes</p>	<p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> ● Remaining time is corrected during operation. <p>Approximate  Corrected</p> <p>0:57  0:59</p> <ul style="list-style-type: none"> ● During the running of the program, the display time will vary with the change of clothing weight, humidity and ambient temperature until the end of the running. <p></p> <p>➡ The remaining time may change.</p>
Noise	<p>Unusual noise (or vibration)</p> 	<p><input type="checkbox"/> Check</p> <ul style="list-style-type: none"> ● Metal items  ● Slope or an unstable surface  ● Adjust 4 feet  (P. 9)
Others	<p>Power cut  Breaker</p> <p>Off </p>	<p><input type="checkbox"/> Check</p> <ul style="list-style-type: none"> ● Even if the power supply is recovered, the appliance will not run again. <p> On  ➡ </p>

Error Display

Error Display	Points to be checked
<p>U 11</p> <p>Unable to drain</p>	<p>1 Check </p> <p>2 </p> <p>3  Start</p> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; margin-top: 10px;"> <p>   </p> </div>
<p>U 12</p> <p>Door is open</p>	<p>1 </p> <p>2  Start</p>
<p>U 30</p> <p>Abnormal ambient temperature</p>	<ul style="list-style-type: none"> Is the ambient temperature abnormal? →Please power off and operate the unit until the ambient temperature is 5 °C~35 °C. <div style="text-align: center; margin-top: 20px;">  </div>
<p>H 00</p>	<p>※If "H86" and "H87" appear, please confirm whether the lint filter, thread filter and filter frame are blocked. If there is any blockage, please refer to the relevant instructions on pages 30 and 31 for cleaning. After cleaning, if the signs of "H86" and "H87" still appear, please unplug the power supply and contact us.</p> <p>1 </p> <p>2 </p>

Specifications

	NH-XV21X1
Rated voltage (V)	220-240
Rated frequency (Hz)	50
Maximum energy rated power input (W)	970
Product dimensions (W x D x H) (mm)	596×667×845
Product weight (kg)	59
Maximum mass of dry cloth (kg)	10.5