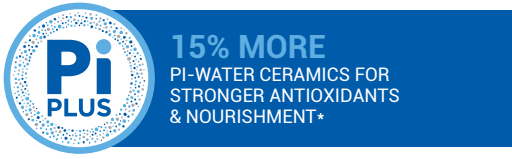
HomePure nova

User Manual

HomePure Nova Water Filtration System

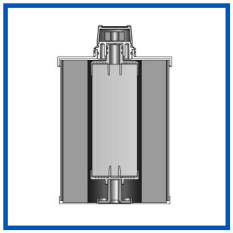
AP-1710



HomePure nova

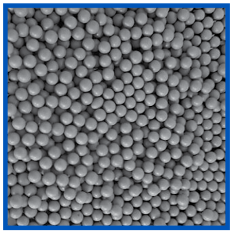
Content

Features



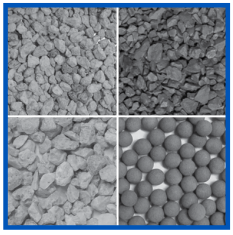
9-Stage Filtration System

The quality of nine single filtration stages are combined in one cartridge. The high-quality filter media allows for extraordinarily clean and safe filter performance.



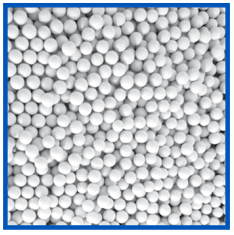
Far Infrared Ray (FIR) Balls*

The FIR ceramic balls provide FI rays and abundant minerals into drinking water, providing good taste and boosting body metabolism.



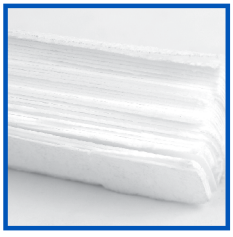
Pi-Water Ceramics from Japan*

Pi-Water ceramics provide nourishment and wellness for your body by producing healthier water.



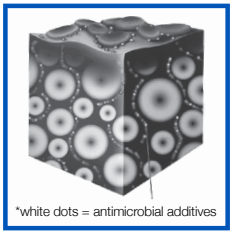
Negative Ion Balls*

The negative ion ceramic balls release negative ions into drinking water to make it fresh and also give it a better taste.



35+ UltraTech Filter Technology*

This special membrane, with a pore size of 0.2 microns and **organic positive charges** on its surface layers, remove sediments and microorganisms bigger than the pore size, as well as 99.9999% of bacteria and viruses, to provide microbiologically safe and clean drinking water for you and your family.



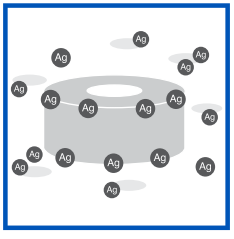
Microban® Antimicrobial Materials*

Microban® antibacterial technology is built-in to the water tank, head adapter, and LDPE hose inside the flexible pipe of HomePure Nova during the manufacturing process to help prevent the growth of bacteria, mould, and mildew that can adversely affect the performance of your HomePure Nova.

The image is a representation of what the inside of a product with Microban protection looks like.

Coral Sand from Japan*

With 100% natural marine origin and sustainable production, coral sand supplies natural calcium source and slightly improves the pH level of the drinking water.

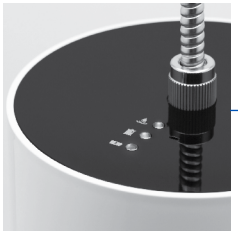


Antibacterial Silver-lite Stone*

An antibacterial silver-impregnated mineral stone protects the filter against contamination from the filter outlet.

Based on independent testing by private laboratories in Korea.

Features

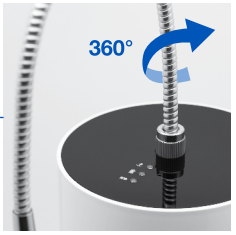


Display with indicator and beeper

The indicator and beeper alarm will sound off if the filter has to be changed, based on flow volume and time.

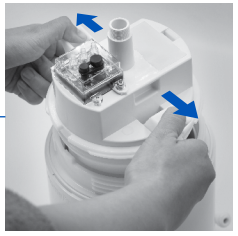
One-way nozzle

This nozzle at the outlet of the flexible pipe allows water and air to only flow from the inside to the outside direction.
It is impossible for any contamination from water or air from the pipe outlet to get back into the unit.



Flexible pipe

This pipe can be rotated 360° to maximise convenience and save space.

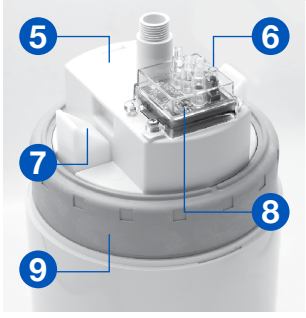


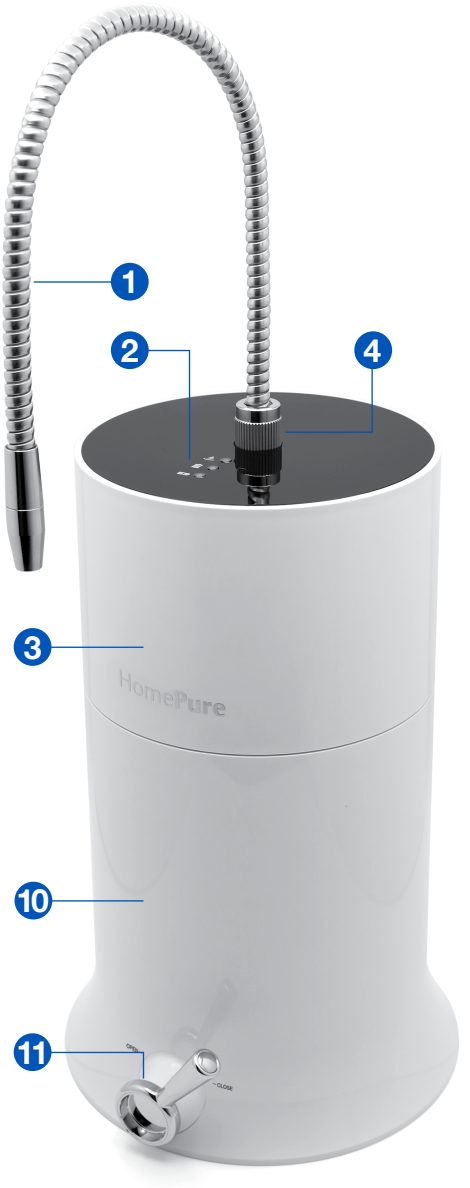
9-Stage Filter Cartridge (AP-1711)

The HomePure filter cartridge is easy to change. Professional plumbing and tools are not needed.

Filter Components

1. Flexible pipe
2. Indicator Display
3. Top cover
4. Nozzle
5. Battery cover
6. Reset button and Silicone cap
7. Ejector
8. Controller cover
9. Filter retaining ring
10. Base housing
11. Front valve
12. One-touch elbow fitting
13. 9-Stage Filter Cartridge





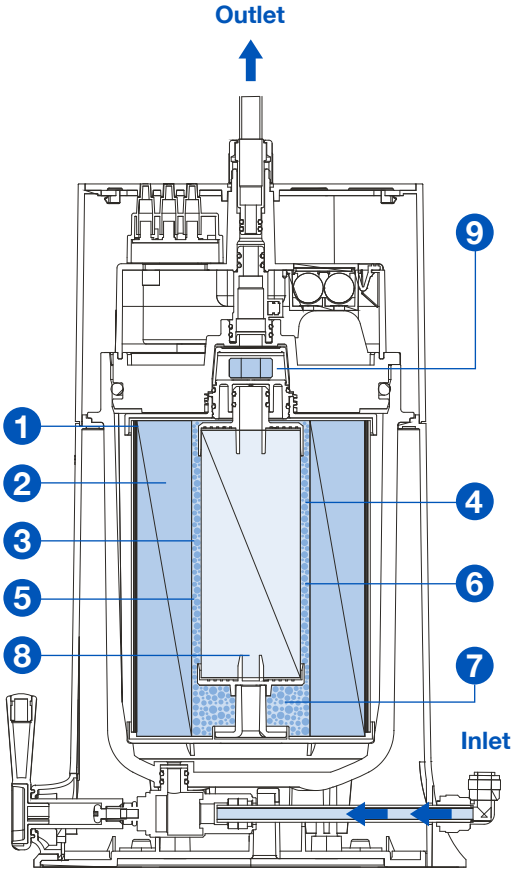
Accessories and Operating Instructions

1. Plastic tube (1.5 m x1)
2. Flexible pipe (x1)
3. Manual (x1)
4. Diverter valve with O-ring and cap (x1)
5. Battery AA size (x2)
6. Adapter (x3), O-ring (x3)

Model	AP-1710
Trade name	HomePure Nova Water Filtration System
Installation type	Countertop water filter
Filter cartridge	9-Stage Filter Cartridge (AP-1711)
Housing material	ABS Thermoplastic Polymer
Max. operation pressure	4 bars
Min. operation pressure	1 bar
Max. operation temperature	35 °C
Min. operation temperature	4 °C
Rated service flow	2.0 litres per minute at 2 bars (29 psi) of water pressure with a new filter (actual flow rate will depend on water pressure and the time the filter has been in service).
Rated service life*	The filter is designed to serve a family's cooking and drinking water needs for 12 months or 5,000 litres*, whichever comes first.

** NOTE: The lifetime will depend on the water quality. It is based on the daily consumption of 14 litres.*

9-Stage Filter Media Functions



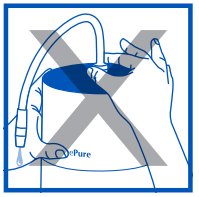
Filter Step	Function
1. Sediment Pre-filter	PE material of non-woven fabric effectively reduces suspended solids such as rust, mud, and sand larger than 5 μm (micron).
2. High-Performance Activated Carbon Block Filter	This filter removes 97.3% of chlorine, and 99.1% of turbidity; and reduces bad taste and odour.
3. Coral Sand from Japan*	With 100% natural marine origin and sustainable production, supplies natural calcium source, and slightly improves the pH level of the drinking water.
4. Pi-Water Ceramics from Japan*	Pi-Water ceramics suppress oxidation and disintegration by neutralising the harmful effects of active oxygen and by controlling the reaction of the oxidation reduction. The higher ratio of Pi-Water ceramics of the HomePure Nova Pi-Plus results in healthier water that more nourishes the body.
5. Negative Ion Balls*	The negative ion ceramic balls release negative ions into drinking water to make it fresh and also give it a better taste.
6. Far Infrared Ray (FIR) Balls*	The FIR ceramic balls provide FI rays and abundant minerals into the drinking water, help boost body metabolism, and provide good taste for the drinking water.
7. Antibacterial Carbon Powder*	Additional stage of carbon powder to improve the absorption of bad taste, chlorine, odour, and other inorganic chemicals. **Silver ions** added to prevent the growth of bacteria inside the cartridge media to keep it always fresh.
8. 35⁺ UltraTech Fibre Membrane*	The special membrane, with a pore size of 0.2 micron and organic positive charges on its surface layers, removes sediments and microorganisms bigger than the pore size, as well as 99.9999% of bacteria and viruses, to provide microbiologically safe and clean drinking water for you and your family.
9. Antibacterial Silver-lite stone*	This prohibits bacteria from entering through the outlet of the filter. It gradually releases mineral substances to the water and prevents recontamination of the filter with its silver-impregnated mineral stone.

Based on independent testing by private laboratories in Korea.

Precautions

The water filter can only be used with pre-filtered water from a water supply facility, such as a tap. The filter cannot be used with water from unsafe water sources such as rivers and wells.

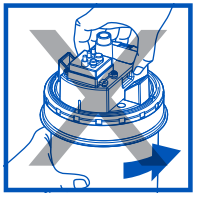
Do not clean the filter cartridge. Doing so may contaminate the filter unit.



Do not open the filter during water flow.

To reach an optimum and satisfactory filter result, HomePure Nova should only be installed in houses with a pipe pressure between 1 to 4 bars.

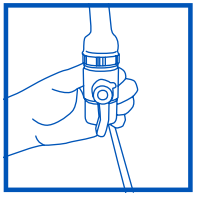
HomePure Nova can only be installed as a countertop unit by using a diverter valve. It cannot be used under the sink.



Do not twist the exchange filter too tightly into the adapter, as the neck of the filter cartridge can crack and break easily.

HomePure Nova must be installed far away from inflammable materials and heating sources in order to avoid deformation.

HomePure Nova should not be exposed to force or shock.

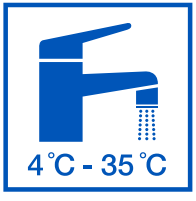


User should turn the diverter valve to the OFF position when the filter is at rest.

HomePure Nova should only be installed inside the house.

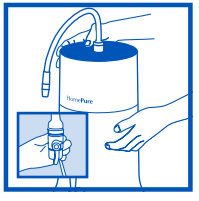
HomePure Nova must be kept away or protected from direct light (e.g. sunlight).

To clean, wipe surfaces regularly with a damp cloth Do not use harsh cleaners, bleach or benzene-based solvents.



HomePure Nova can only be installed with a cold water supply at temperatures ranging between 4 °C to 35 °C.

Do not spill water on the water filter.



Close water valve before moving unit.

Important Usage Guidelines

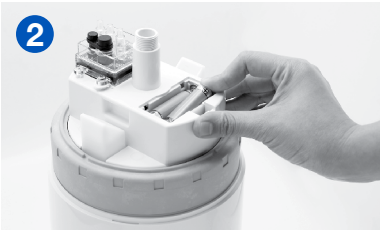
- Installation and use must comply with all state and local laws, and regulations.
- Follow the instructions in the manual.
- Install in a dry place indoors. Do not use where the temperature goes below 0 °C.
- Use only with unheated tap water (4 °C to 35 °C).
- Use with optimal water pressure (1– 4 bars); pressure higher than 4 bars may cause unit overflow or damage to the filter cartridge and water filter unit.
- Use with a treated metropolitan water supply only.
- Use only with water supply that contains less than 500 ppm of Total Dissolved Solids (TDS).
- Do not use with salt water (water with more than 0.2 ppt salt).
- For low quality water, use with HomePure Prefilter to extend the life of the HomePure Filter Cartridge.
- Lock the tap water inlet valve when the water filter is not being used for a long time to avoid bacterial contamination.
- For hygienic purposes, change the water inlet installation tube every two years.
- In case of leakage, close the tap water inlet valve and contact HomePure Global Support Centre.
- The estimated lifetime of the filter cartridge is 5,000 litres* or 12 months, whichever comes first (depending on water quality).
- Replace the filter cartridge when the display indicates it.

** NOTE: The lifetime will depend on the water quality. It is based on the daily consumption of 14 litres.*

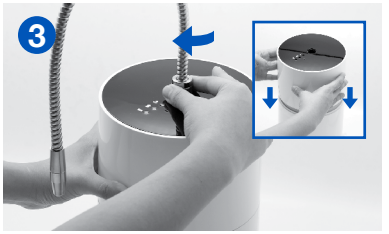
- WARNING: This system is for use on water supplies that have been treated to public water system standards or otherwise are determined to be microbiologically safe as demonstrated by routine testing. This system has been tested to demonstrate protection against intermittent accidental microbiological contamination of otherwise safe drinking water.
- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. This system is not intended for use during a boil water advisory. Stop using this filter system when a boil water advisory is issued. After a boil water advisory has been discontinued and prior to reuse, sanitize and service the system as directed in the owner's manual.
- This system is not intended to convert wastewater or raw sewage into drinking water.
- This system not intended to control all heterotrophic plate count (HPC) bacteria.
- For use on private wells: WARNING: Do not use on private well water until the water has been tested by a certified drinking water laboratory to determine microbial safety in accordance with regulatory standards. Before using this device on a private well, it is the responsibility of the user to have the well tested by a certified drinking water laboratory. For continuous use of this device on a private well, it is the responsibility of the user to obtain frequent microbiological testing (recommended twice per year, minimum) of the well water entering the system by a certified drinking water laboratory to monitor continued compliance with the applicable regulatory standards. If the well source becomes microbiologically contaminated as indicated by testing, discontinue use of this device until sufficient well treatment and testing indicates that the water again meets the applicable regulatory standards. Following exposure of the device to microbiologically contaminated water and prior to its reuse, conduct the proper sanitization and servicing as directed in the owner's manual.
- For more information about this product, feedback or supply of replaceable components, please contact HomePure Global Support Center per contact detail at the back of this user manual.

Installation Guidelines

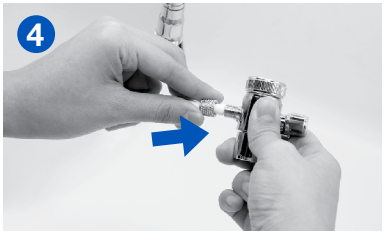
Pull out the top cover.



Open the battery cover and insert the batteries.

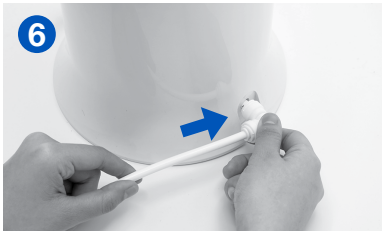


Put the top cover back on the filter and connect the flexible pipe to the nozzle.



Connect the plastic tube to the diverter valve. Tighten the cap.*

Connect the diverter valve to the faucet. If needed, use one of the three faucet adapters.**



Insert the other end of the tube to the elbow fitting at the back of the unit until it is properly locked.

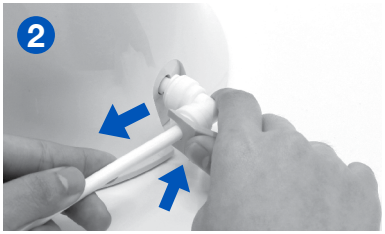
Place the filter near the sink and open the cold water supply. Open the valves and check all connections for leakage.

Before using the filtered water as drinking water, let the water flow for at least 10 minutes.***

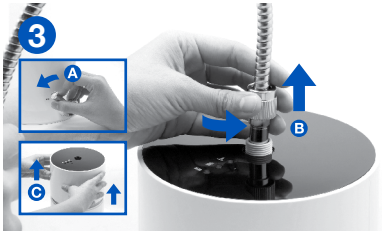
* *Push the plastic tube firmly and completely over the valve before locking it in with the ring.*
** *In case no adapter fits your faucet, you will need to purchase an additional adapter that will do so.*
Always hold the unit from the bottom as the upper part is not secured to the unit and comes off easily for filter replacement.
** *The diverter valve must be turned off when the unit is not being used.*
*** *The flushed water is clean and recommended for watering plants, washing tableware, etc.*

Filter Replacement

Close the diverter valve.

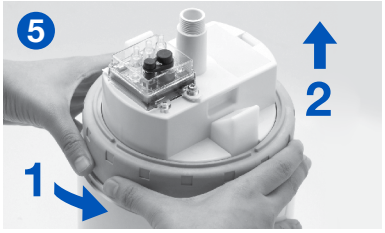


Remove the tube by pressing down on the upper ring on the connector.*

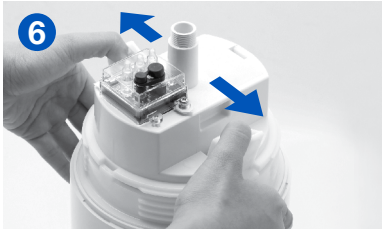


Open the front valve and remove the flexible pipe.

Pull out the top cover.



Remove the retaining ring to unlock the filter.



Press out the ejectors firmly to remove the filter adapter and filter.**

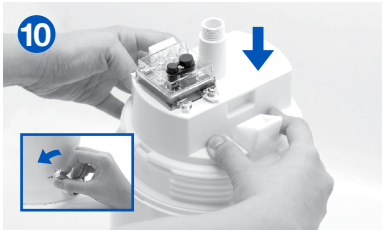
Separate the old filter from the adapter.

Clean the inside of the filter only with a wet or dry cloth.

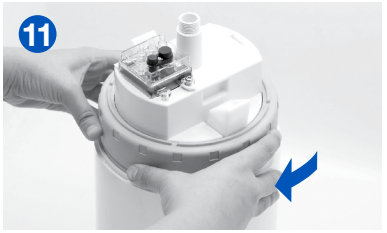
Assemble the new filter with the head adapter.

** Be prepared that a small amount of water may come out of the elbow fitting and filter. Use a spanner to press down the upper ring on the connector.*
***In case it is difficult to remove the filter because of air gap, close and open the valve again after a few minutes.*

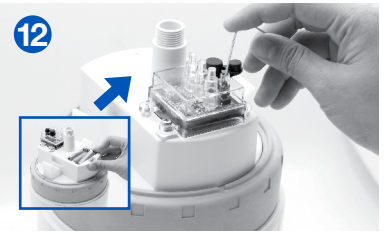
Filter Replacement



Open the front valve and press the assembled filter down firmly into the base housing.



Lock the filter retaining ring. Ensure that the retaining ring is locked between the head adapter and the water tank properly to avoid water leaking.

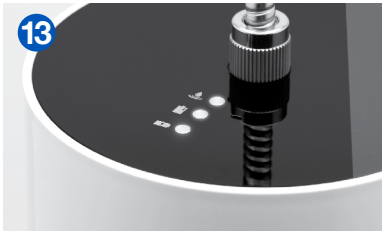


After changing the filter cartridge, the indicator has to be reset.

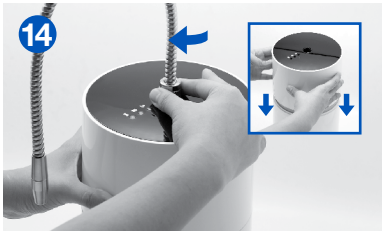
Remove the Silicone Cap that protects the Reset button inside.

Press the Reset button using a paperclip or a similar tool for two seconds to reset the filter.*

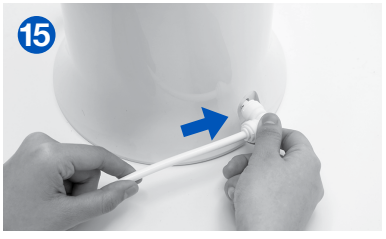
Don't forget to put the Silicone Cap back to its place.



During reset, the three LEDs will light up simultaneously. This means that the reset is complete.



Put the top cover back on and connect the flexible pipe to the nozzle.



Connect the plastic tube to the elbow fitting.

Open the diverter and front valve to allow water flow for at least 10 minutes before use.**

Please dispose the used filter cartridge according to local regulations.

* *It is recommended to change batteries (2 x AA) every time when changing the new filter cartridge. After the filter has been changed, proceed with the reset in order to start recording water consumption with the new filter cartridge.*

** *The flushed water is clean and recommended for watering plants, washing tableware, etc.*

NOTE:

* *Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.*

* *The estimated lifetime of the filter cartridge is 5,000 litres or 12 months, whichever comes first (depending on water quality).*

LED Indicator Display

1st LED is “Quality of Water Flow”
2nd LED is “Filter Cartridge Lifespan”
3rd LED is “Battery”

Flickering First LED in BLUE
- Quality of Water Flow is Good
- 0-9 months in use or 0 - 3,740 litres

Flickering First and Second LED in BLUE
- Quality of Water Flow is Good
- 10-11 months in use or 3,741 - 4,576 litres

Flickering First LED in BLUE and Second LED in RED
- Filter replacement is needed within 1 month
- 11 months in use or 4,577 - 5,000 litres

Flickering First LED in BLUE and Second LED in RED with beeping
- Filter replacement is needed immediately
- 12 months in use or 5,000 litres*

Flickering Third LED in RED
- Low battery. The batteries have to be changed immediately.

Flickering First LED in RED
- Overflow. Close the front valve and adapter valve, then check the filter.

All LEDs Flickering in RED
- Overflow
- Filter replacement is needed within 1 month.
- The batteries have to be changed immediately.

* *CHANGE THE FILTER CARTRIDGE EVERY 12 MONTHS OR AFTER FILTERING 5,000 LITRES OF WATER*
The filter cartridge inside your HomePure Nova must be changed as needed to ensure that you get the best water quality all the time. The continuous use of the filter cartridge when it's past its lifespan is discouraged as the positive charge of the fibre membrane that filters viruses would have already been depleted.

Troubleshooting

Problem	Possible Cause(s)	Solution
Black colour or black particles in the water	The HomePure water filter contains carbon powder. After installation, small particles can appear in the water.	After installation or filter change, let the water flow for at least 10 minutes to remove possible small residual articles of carbon.
Air bubbles in water for the first time	Filter media inside HomePure water filter may react with water during first time use and cause air bubbles to form in filtered water.	Please perform a 10-minute flush properly prior to first time use and every time a new filter cartridge is installed, to clean the system and wash out all air bubbles.
Slow water flow	The end of the filter's lifetime has been reached.	Replace the filter cartridge.
	The filter is clogged.	Replace the filter cartridge.
	Low water pressure.	Check that the under sink valve is turned on properly for optimal water pressure.
Noise in the system	There are air bubbles in the system.	After installation, let the water flow for at least 10 minutes to remove all air from the system.
	Over water pressure (higher than 4 bars).	Reduce water flow into the unit at the diverter valve and/or the under sink valve.
Unusual water or chlorine taste and bad odour	The cartridge is not removing chlorine and other contaminants from the water. The end of the filter cartridge's lifetime has been reached.	Replace the filter cartridge.
	You have not used the filter for a while and some sediments and contaminants developed a bad smell in the system.	Open the valves and let the water flow for at least 5 minutes.
Water leakage	Tubes, fittings, nozzle and/or flexible pipe might not be connected properly.	Check that every connection is inserted with the proper depth.
No water flow	The diverter valve is closed.	Open the diverter valve.
	The front valve is closed.	Open the front valve.
No light LEDs are displayed	The end of the filter's lifetime has been reached.	Change the filter.
	Improper use could cause water to go inside the indicator's electronic board.	The indicator's electronic board needs to be changed. Please contact HomePure Global Support Centre.
The first LED indicator is flickering in RED	Overflow in the filter.	The flow rate and water pressure is too high. Close the front valve. Reduce the water pressure into the unit at the diverter valve, or call HomePure Global Support Centre for assistance.

Performance Data Sheet

System Tested and Certified by NSF International against NSF/ANSI Standard 42, 53, and 401 for the specific performance claims specified on the Performance Data Sheet and at www.nsf.org

This system has been tested according to NSF/ANSI Standard 42, 53 and 401 for reduction of the substances listed below. The concentrations of the indicated substances in water entering the system were reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42, 53 and 401.

Table 1

Performance Data Sheet Reduction Claims

	Influent Challenge Conc.	Max. Permissible Product Water Conc.	Reduction Requirement	Percent Reduction
NSF/ANSI Standard No. 42			**Aesthetic Effects**	
Taste, Odour and Chlorine (mg/L as Chlorine)	**2.0 ± 10%**	**-**	**≥ 50%**	**97.3%**
Nominal Particulate Class I ≥ 0.5 to < 1.0 µm	**12,000,000 pts/mL**	**-**	**≥ 85%**	**> 99.9%**
NSF/ANSI Standard No.53			**Health Effects**	
Turbidity (NTU)	**11 ± 1 NTU**	**0.5 NTU**	**-**	**98.8%**

This Testing was performed under standard laboratory conditions, and actual performance may vary.

Conforms to NSF/ANSI 401 for Emerging Compounds reduction. See performance data shee for individual contaminants and reduction performance.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

What is NSF International?

Since 1944, NSF International has been certifying products, writing standards and conducting audits to help protect food, water and consumer goods. As a non-profit, global public health and safety organisation, NSF is committed to improving human health and safety worldwide. NSF has established a history of Independence as exemplified by unparalleled third-party evaluations and the value of the brands that carry the NSF Mark.

NSF/ANSI Standard 42 – Aesthetic Effects

This standard covers point-of-use (POU) and point-of-entry (POE) systems designed to reduce specific aesthetic or non-health-related contaminants (chlorine, taste and odour, and particulates) that may be present in public or private drinking water.

NSF/ANSI Standard 53 – Health Effects

Standard 53 addresses point-of-use (POU) and point-of-entry (POE) systems designed to reduce specific health-related contaminants such as turbidity and volatile organic chemicals (VOCs) that may be present in public or private drinking water.

NSF/ANSI 401 - Emerging Compounds/ Incidental Contaminants

Standard 401 verifies the ability of a water treatment device to remove up to 15 contaminants from drinking water. Types of contaminants include some pharmaceuticals, over-the-counter medications, new types of herbicides and pesticides, and chemicals used as flame retardants and detergents that have been found at trace levels in drinking water.

Table 2

Performance Data Sheet NSF/ANSI Standard 401 Reduction Claims For Emerging Compounds

Substance	Average influent challenge ng/L*	Maximum effluent concentration ng/L*	NSF/ANSI Standard 401 Percentage Reduction
Meprobamate	**400 ± 20%**	**60**	**> 94.4%**
Phenytoin	**200 ± 20%**	**30**	**> 95.4%**
Atenolol	**200 ± 20%**	**30**	**> 94.9%**
Carbamazepine	**1,400 ± 20%**	**200**	**> 98.3%**
TCEP	**5,000 ± 20%**	**700**	**> 97.9%**
TCPP	**5,000 ± 20%**	**700**	**> 97.8%**
DEET	**1,400 ± 20%**	**200**	**> 98.6%**
Metolachlor	**1,400 ± 20%**	**200**	**> 98.5%**
Trimethoprim	**140 ± 20%**	**20**	**> 96.2%**
Ibuprofen	**400 ± 20%**	**60**	**> 95.3%**
Naproxen	**140 ± 20%**	**20**	**> 96.7%**
Estrone	**140 ± 20%**	**20**	**> 96.5%**
Bisphenol A	**2,000 ± 20%**	**300**	**> 99.1%**
Linuron	**140 ± 20%**	**20**	**> 96.1%**
Nonyl phenol	**1,400 ± 20%**	**200**	**> 95.8%**
Microplastics ≥ 0.5 to < 1.0 µm	**12,000,000 pts/mL**		**≥ 85%**

* *While a majority of regulated contaminants like arsenic and lead are measured either in milligrams or micrograms per liter, many contaminants covered by NSF/ANSI 401 are only found in trace amounts and thus are measured in a smaller increment known as nanograms per liter (ng/L). To put this in perspective, 1 ng/L is the equivalent of 1/1000th of a microgram per liter, which would be the same as 1 ounce in 7.5 billion gallons of water.*

** *The compounds certified under NSF/ANSI 401 have been deemed as "incidental contaminants/emerging compounds". Incidental contaminants are those compounds that have been detected in drinking water supplies at trace levels. While occurring at only trace levels, these compounds can affect the public acceptance/perception of drinking water quality.*

Performance Data Sheet

System Certified by WQA to NSF/ANSI 42, 53 and 401 for the specific performance claims specified on the Performance Data Sheet.

- The HomePure Nova Water Filtration System is tested and certified against NSF/ANSI 42, 53, and 401 for the specific performance claims verified and substantiated by test data set forth in the NSF/ANSI standard for Chlorine, Particulate Class 1, Turbidity, - Emerging Compounds / Incidental Contaminants (Group 1, 2 and 3).
- Testing was performed under standard laboratory conditions, actual performance may vary.
- Performance Data Sheet NSF/ANSI Standard 42 refer to table 1
- Performance Data Sheet NSF/ANSI Standard 53 refer to table 1
- Performance Data Sheet NSF/ANSI Standard 401 refer to table 2

World-Class Quality

German Engineering | Japanese Technology | Korean-made

HomePure Limited
Unit F, 26/F MG Tower
133 Hoi Bun Road, Kowloon East
Kowloon East, Hong Kong
Tel: +852 2263 9000
Fax: +852 2827 1833
Email: customerservice@homepure.com

www.homepure.com

Made in Daejeon, South Korea