

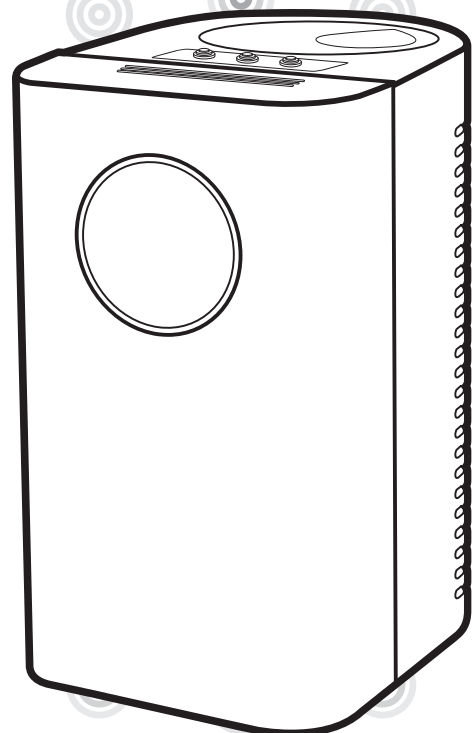


COWAY LOVES THE PLANET
This paper can be recycled.

COWAY

Water Filtration Device P-160L

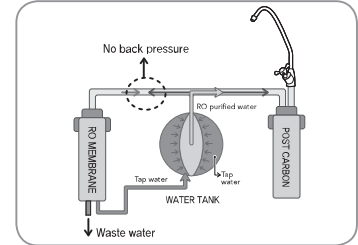
- For your safety and proper use of the product, please read this User's Manual before use.
- Warranty card is included in this User's Manual.



FEATURES

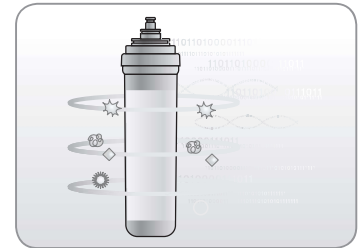
1. Water On Water(WOW) Technology

There is no back pressure on the membrane during water production. This means better quality water and faster production because the system will shut off sooner. Since the tank does not use air pressure, there is no loss for water tank capacity.



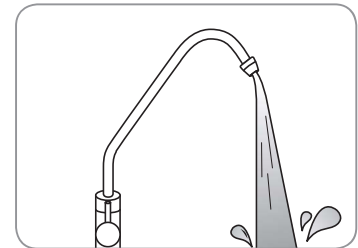
2. Auto flushing

Automatically fast flushes the membrane whenever water is dispensed. The recovery rate of membrane filter is high.



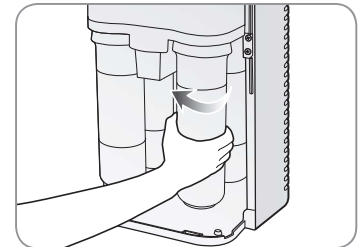
3. Undersink type

User can get the filtered water by just opening the faucet.



4. Quick change filter

The convenient filter replacement method of a quarter (1/4) turn makes replacing the filter by the customer easier.



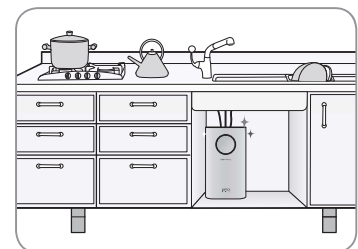
5. 4 Step Filtration system

The 4 step filter system of Sediment (20 μm), Neo-sense, RO membrane and Plus inno-sense (D), provides excellent water filtration performance.



6. Sophisticated design

An under-sink water filtration system with a polished design.



DEAR CUSTOMERS

Thank you for using our **Coway Water Filtration Device**.

Please read this Users' Manual to use and maintain the product correctly. If you encounter a problem while using the product, you may solve the problem referring to the User's Manual. As this manual contains the product warranty card, please keep it in a safe place.



The P-160L is tested and certified by WQA according to NSF/ANSI 42, 53, 58 and 372.

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- Please keep the User's Manual where it can be readily reached or found -

SAFETY INFORMATION

Be careful to keep this safety information.

Please read this information to prevent property loss and ensure your safety.

▲ DANGER : If not observed, serious injury or even death may occur as a result.

- Do not install the unit near heaters.
- Do not place dishes or containers of water, drugs, food, or small metal objects on top of the product.
- Do not put a candle, cigarette or any other flammable object on the product.
- Do not spray water or wipe the product with benzene when cleaning.

▲ WARNING : If not observed, serious physical injury or property damage may occur as a result.

- Read all the instructions before using the appliance.
- To reduce the risk of injury, close supervision is necessary when an appliance is used near children.
- 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.
- This appliance can be used by children aged from 8 years and above.
- The new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.

SAFETY INFORMATION

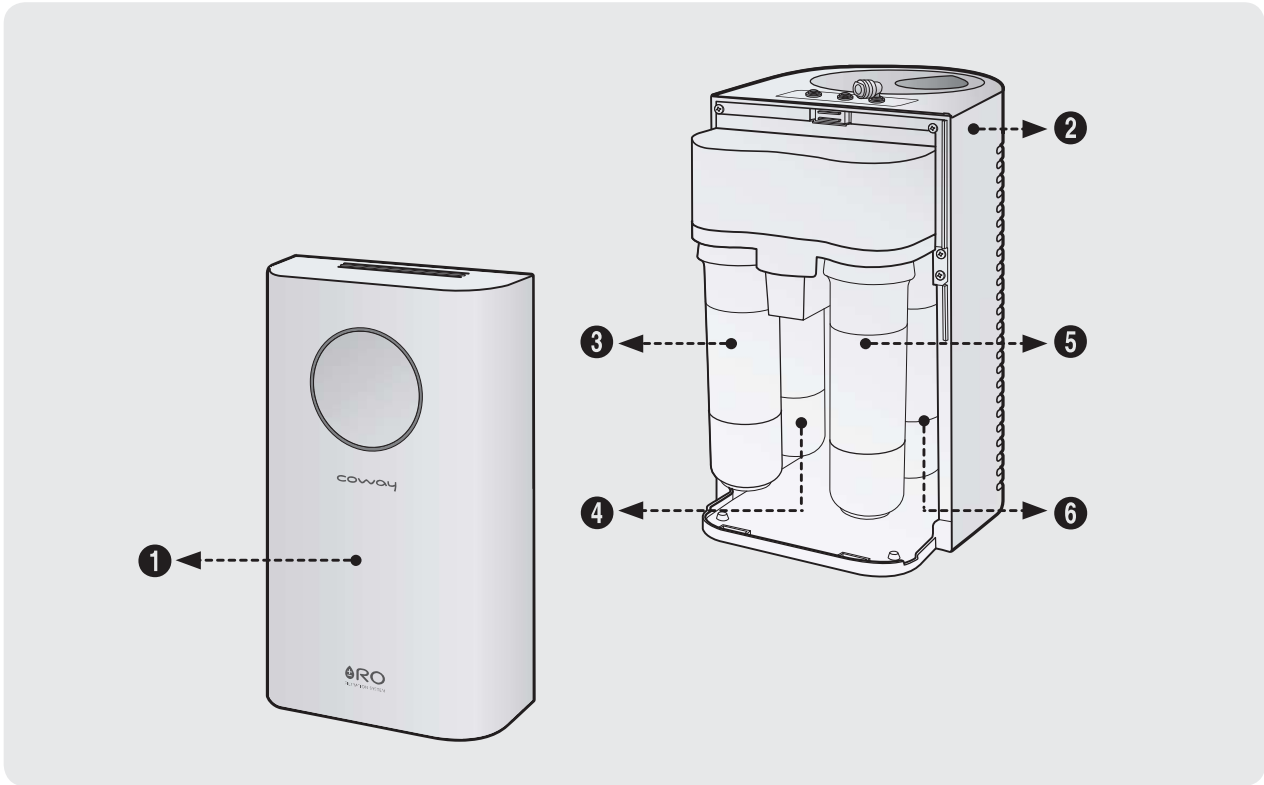
▲ CAUTION : If not observed, minor physical injury or property damage may occur as a result.

- Use or place the unit on a level area and do not apply force to the unit.
- Periodical filter replacement is prerequisite for getting clean water.
- When moving the product or replacing the Plus inno-sense filter (D) there may be black residue particles under the tank bottom stored water may get contaminated.
- Do not use filtered water for the water exchange of an aquarium or a fishbowl.
- The filtration system installation shall comply with state and local laws and regulations. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- It is recommended installing the product inside the sink.
- Noise may occur if the product is installed outside of the sink. To solve this problem, you will need to buy optional parts and assemble them.
- The minimum allowable inlet water pressure is 138kpa(20 psi). If the water pressure is less than 138kpa(20 psi), it could result in noise or water shortage.
- The maximum allowable inlet water pressure is 827 kPa (120 psi).
- Only use attachments(accessories) recommended or sold by manufacturer.
- Do not use the product outside.

SAVE THESE INFORMATION.

PARTS NAME

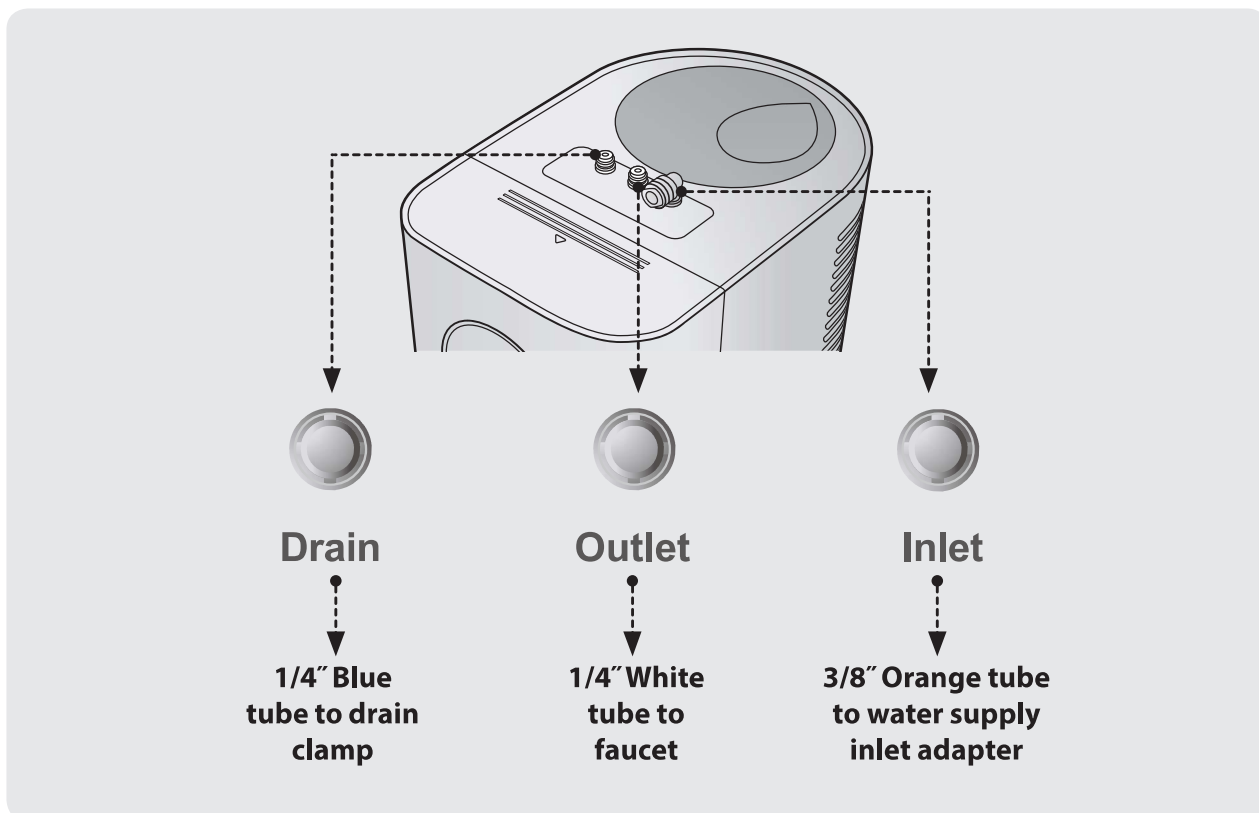
Front



- ① Cover
- ② Water tank
- ③ Neo-sense filter
- ④ Plus inno-sense filter (D)
- ⑤ Sediment filter (20 μm)
- ⑥ RO membrane filter

PARTS NAME

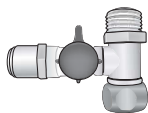
Top



Accessories



FAUCET



WATER SUPPLY FITTING (3/8" TYPE)



DRAIN CLAMP

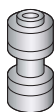


TUBING

- ① INLET : 3/8" TUBING (ORANGE)
- ② OUTLET : 1/4" TUBING (BLUE)
3/8" TUBING (BLUE)



USER'S MANUAL



FITTING STRAIGHT

* The pictures may differ from the actual product.

WATER FILTRATION PROCESS

The 4-step water filtering system (P-160L)

Step 1 : Sediment filter (20 μm)

Step 2 : Neo-sense filter

Step 3 : RO membrane filter

Step 4 : Plus inno-sense filter (D)

The P-160L conforms to NSF/ANSI 42, 53 and 58 for the reduction of Aesthetic Chlorine, Taste and Odor, VOCs, Pentavalent Arsenic, Barium, Radium 226/228, Cadmium, Hexavalent Chromium, Trivalent Chromium, Lead, Copper, Selenium and TDS as verified and substantiated by test data.

The P-160L conforms to NSF/ANSI 372 for low lead compliance.

See performance data sheet for individual contaminants and reduction performance.

How it works?

Water, from a water supply, enters the Sediment filter and after that passes the Neosense filter through the regulator. Further, membrane-safe water, through the Auto shut off valve, enters RO membrane unit. Membrane unit has two output lines: purified water line and drain line. Part of water passes through the membrane fills up the storage tank but the most of water washes the surface of membrane to remove scaling and leaves the membrane unit through the drain line. The purified water drain water ratio is adjusted by flow restrictor.

Purified water fills up the storage tank which has the built-in membrane dividing a tank into two volumes : storage volume and control volume. The storage volume contains purified water while the control volume contains prefiltered tap water. As the storage volume is filled with purified water, the tap water from the control volume is pressed out in a drain line, As soon as the storage tank is filled up, the automatic valve will shut the water supply.

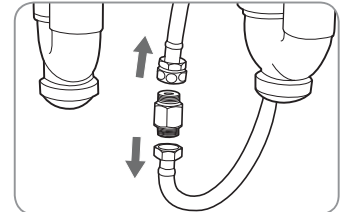
When you open purified water faucet, the tap water enters the control volume and presses out the filtered water from a storage volume through the water conditioning unit to the outlet. At the same time, the automatic valve will open water supply in a water purifier.

INSTALLATION

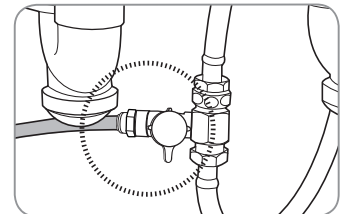
Product Installation

1. Wind the teflon tape on the adapter and fit it to the pipe.

⚠ Install the adapter with connector on the cold water pipe.

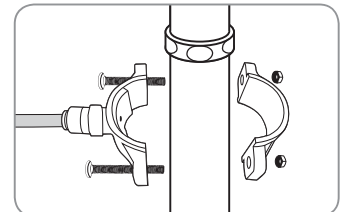


2. Connect one end of the orange tube to the water supply adapter and connect the orange tube then connect the other end to the water inlet of the product.

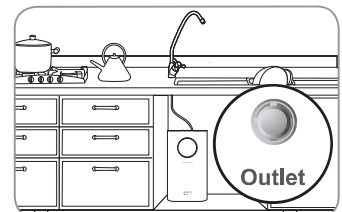


3. Make a hole on the drain pipe and install the drain clamp on the hole.

⚠ Connect the blue tube from the water outlet of the product to the drain clamp.

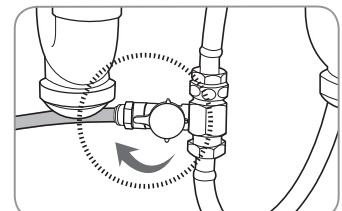


4. Install the faucet connected with the white tube to the sink and connect the other end of the white tube to the water faucet of the product.



5. Open the water supply inlet adapter to supply water to the filtration system.

* If you can't understand the installation places, refer to the following counter image.

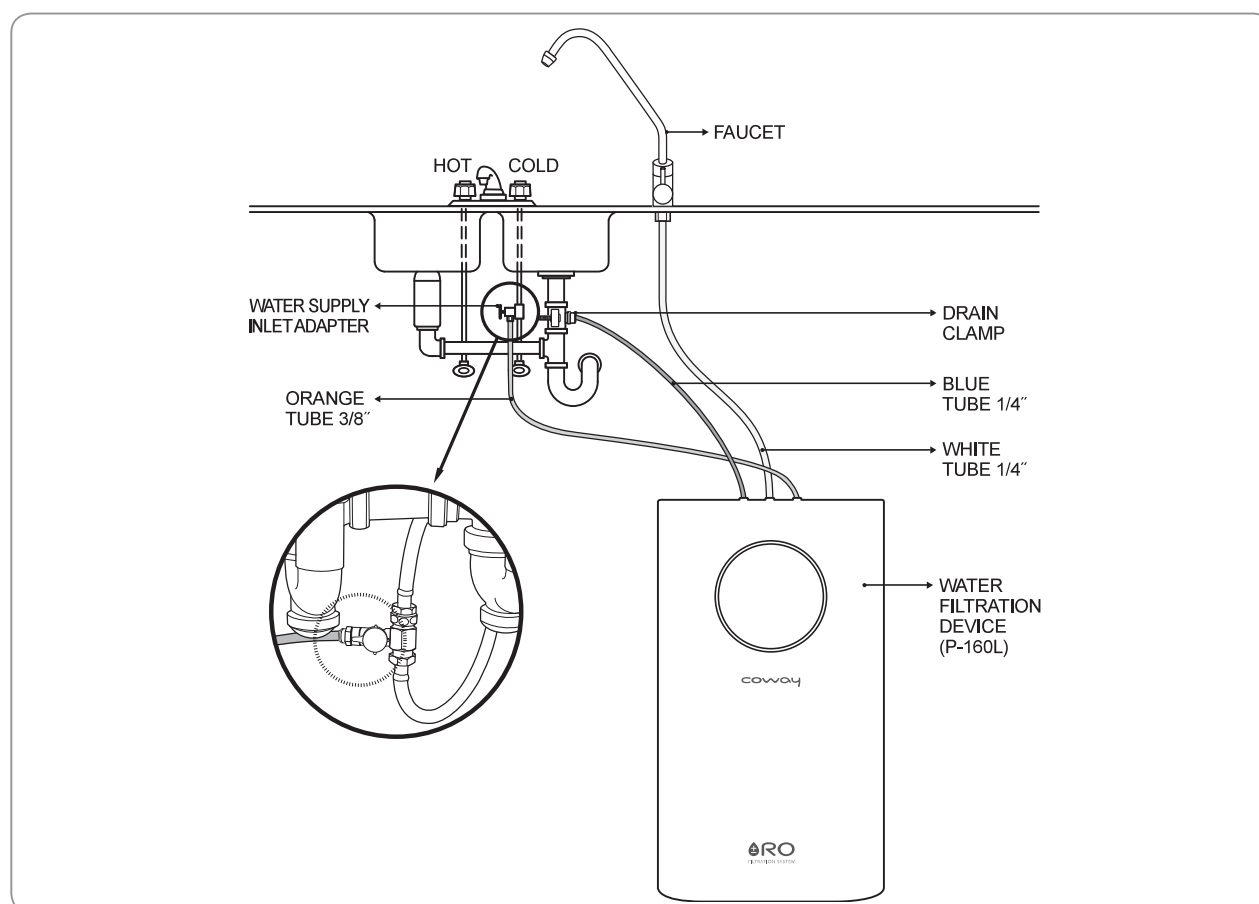


Filter flushing after installation

Flush the new filters after you complete installation to guarantee hygiene.

6. Open the faucet for about 10 minutes to deaerate the filters.
7. Close the faucet and let water run through the system over 1 hour to deaerate the rest parts.
8. Open the faucet for about 10 minutes and flush all the filters and water tank.
9. Close the faucet.
10. Drink water after about 1 hour.

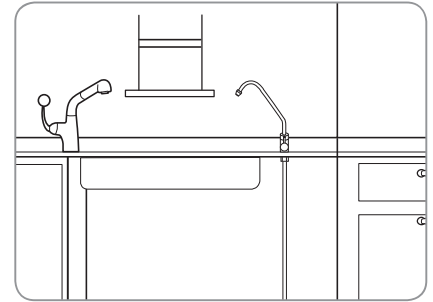
Below counter image



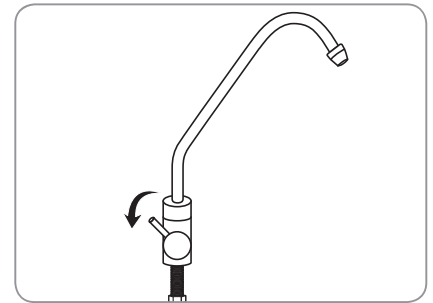
HOW TO USE

To drink the filtered water

1. Put the extraction pipe in the desired position and place the cup under the extraction faucet to collect the water.

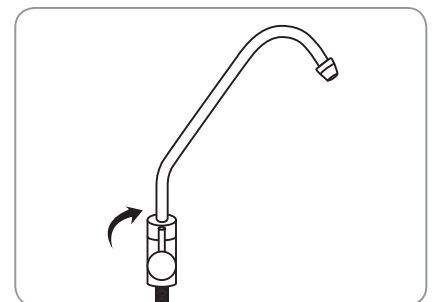


2. If you want to extract the required amount of water, turn the faucet lever to the left.



To extract continuously

1. To extract water continuously, turn the faucet lever to the left. To stop extraction, turn the faucet lever to the right.



FILTER REPLACEMENT

Filter

The important component of the water filtration system is the filter. It isn't the legitimated filter or you use too long even if it is the legitimated filter, the filter performance can be lowered.

Please change to the legitimated filter according to the replacement cycle.

Contact your local Coway representative for replacement filters.

Filter replacement cycle

If the filter is not regularly replaced, it may degrade the water quality from the product. The filter replacement cycle depending on the main water quality can be shortened rater than the expected replacement cycle.

Part No.	Names of filter	Usable period
CSFM11-20	Sediment filter (20 μm)	6 months
CNFM11	Neo-sense filter	6 months
CRMFM11-50	RO membrane filter	24 months
CIFM11-D-PLUS	Plus Inno-sense filter (D)	6 months

About filter replacement cycle

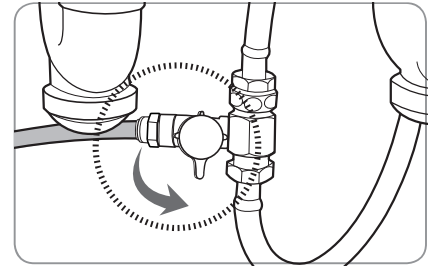
If the filter is not regularly replaced, it may degrade the water quality from the product. The filter replacement cycle depending on the main water quality or user's usage can be shortened rater than the expected replacement cycle.

FILTER REPLACEMENT

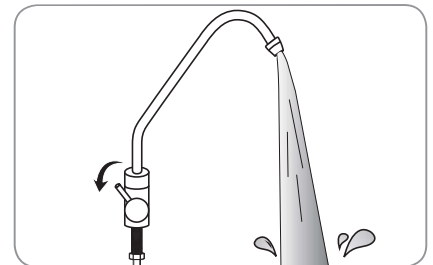
Filter replacement method

▲ Empty the tank before replacing the filter.

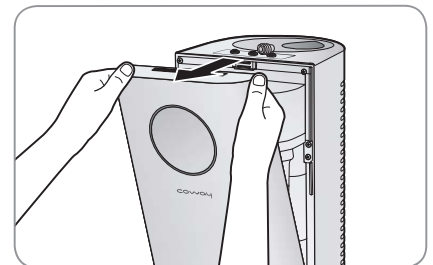
1. Close the water supply valve.



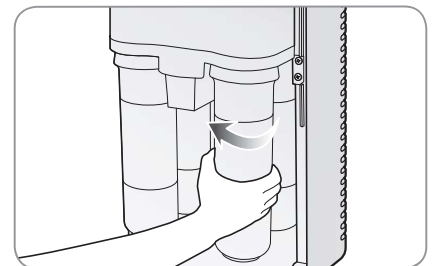
2. Keep the faucet open until the residual water pressure is released in the system. (about 1 min)



3. Grab the product body and pull the cover to open it.

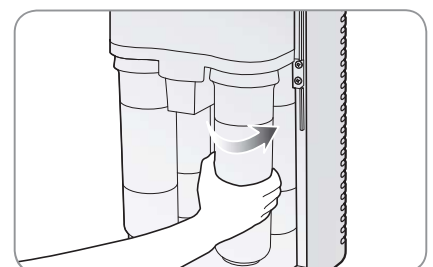


4. Turn the filter to be replaced by turning it clockwise by a ¼ turn.

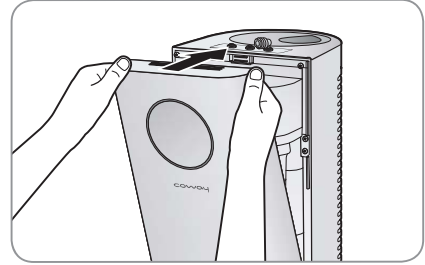


5. Install the new filter by turning it counter clockwise by a ¼ turn.

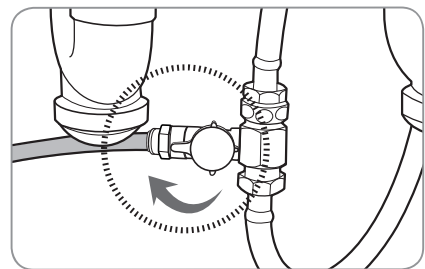
* Install the filter refer to the dot image at the front of inner cover.



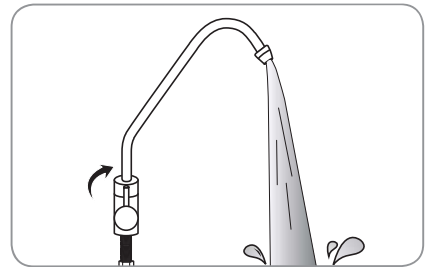
6. Close the cover.



7. Open the water supply inlet adapter.



8. Flush the system refer to p.10.



TROUBLESHOOTING

If the appliance experiences difficulties, use the Appliance Shutoff Valve to shut off the incoming water to the appliance.

Problem	Possible Cause	Solution
No water, not enough water, or low water flow	Incoming water supply valve is turned off	Turn on incoming water supply valve
	Low incoming water pressure	Verify pressure is above 20 psi; install a booster pump if needed
	Capacity is exhausted	Allow time for the appliance to replenish the storage tank
	Plumbing restriction	Check connections and tubes for obstructions
	Other filters or RO membrane (3) is clogged	See Filter replacement
	Wow Valve is inoperative	See product warranty in last page of manual And then call the phone number written there
	Water supply is restored.	Open the faucet for about 3 seconds and close it.
Unexpected flow in drain line	Wow Valve is inoperative	See product warranty in last page of manual And then call the phone number written there
No drain flow	Other filters or RO membrane (3) is clogged	See Filter replacement
	Flow restrictor is inoperative	See product warranty in last page of manual And then call the phone number written there
Bad tasting water	Replacement filter cartridge Plus Inno sense is exhausted	Filter replacement
	Newly replaced Replacement filter cartridge Plus Inno sense is not flushed completely	Open the treated water spigot and drain the storage tank once. Flush one or two tanks of treated water through the Plus Inno sense
	Problem with the tank bladder	See product warranty in last page of manual And then call the phone number written there
Cloudy water and/or ice cubes	Dissolved air in incoming water supply	Problem clears up as the condition of the incoming water changes. Letting water stand will allow the dissolved air to dissipate
Leaking water from appliance	Tube is not fully inserted into a connection	Make sure the tube is at least 1/2-inch into the connection
	A cartridge is not installed correctly	Ensure that all four cartridges are locked into place
	Water is sitting in the top of the appliance	Verify that no water is in the top of the unit under the decorative cover
Spigot-valve leaks	Valve seat is defective	Replace the spigot assembly
Air gap overflows	Debris is lodged in 1/4 inch drain line	Disconnect the tube from the drain saddle and clean out the debris or replace the drain line
Broken handle or spout	Fatigue or misuse	Replace the spigot assembly
Unusual sounds during operation	Problem with one of the restrictors	See product warranty in last page of manual And then call the phone number written there

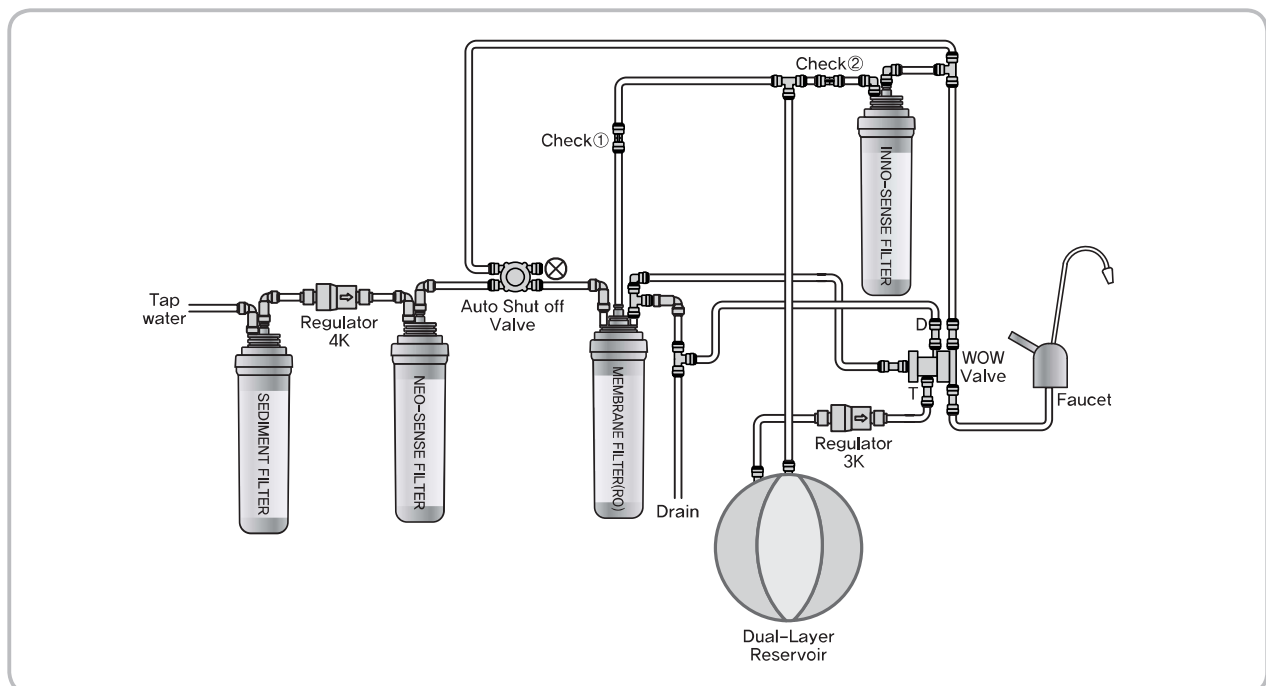
SPECIFICATION

Product name	Water Filtration Device
Model	P-160L
Filtration Method	RO (Reverse Osmosis) membrane
Dimension	235 mm (W) x 350 mm (D) x 419 mm (H)
Working temperature	5 °C ~ 35 °C
Working pressure	138 kPa - 827 kPa
Net weight	6.0 kg

- Service flow rate and production rate can be differentiated according to the water temperature and water pressure.
- Without any prior notice, all or parts of the product are subject to change for the purpose of improving the performance of the product.

WATER FLOW DIAGRAM

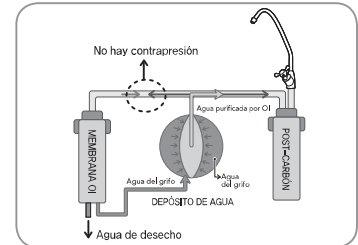
P-160L



CARACTERÍSTICAS

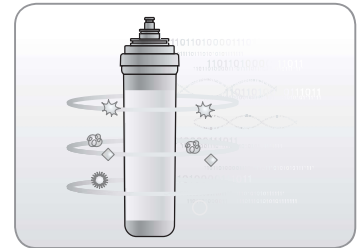
1. Tecnología Water On Water (WOW)

No hay contrapresión en la membrana durante la producción de agua. Esto significa mejor calidad del agua y mayor producción ya que el sistema se cierra más pronto. Dado que el depósito no utiliza la presión del aire, no hay pérdida en la capacidad del depósito del agua.



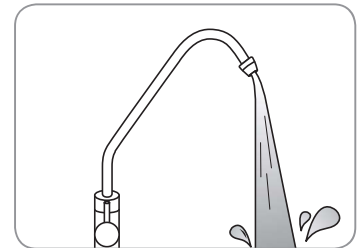
2. Vaciado automático

Siempre que se dispensa agua la membrana se vacía rápidamente de manera automática. La velocidad de recuperación del filtro de la membrana es alta.



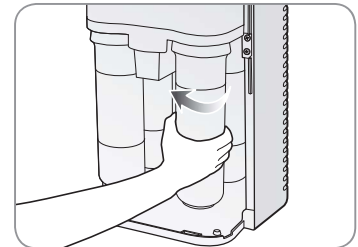
3. Instalación debajo del fregadero

Para obtener agua filtrada basta con abrir el grifo.



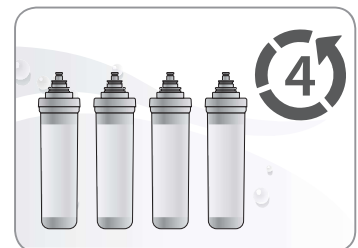
4. Sustitución rápida del filtro

El sistema de cuarto de vuelta (1/4) permite sustituir el filtro más fácilmente.



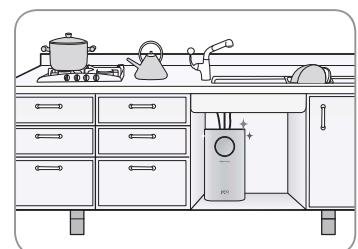
5. Sistema de filtración en 4 pasos

El sistema de filtración en 4 pasos de sedimentos (20 μm), Neo-sense, membrana OI y Plus inno-sense (D) proporciona unos resultados excelentes.



6. Diseño sofisticado

Sistema de filtración de agua de diseño estilizado para instalación debajo del fregadero.



APRECIADOS CLIENTES

Gracias por utilizar el **dispositivo de filtración del agua Coway**.

Le aconsejamos que lea este manual del usuario para utilizar y mantener el producto correctamente. Si tiene algún problema durante el uso del producto, tal vez pueda resolverlo con las instrucciones de este manual.

Conserve este manual en un lugar seguro ya que incluye la tarjeta de la garantía del producto.



El P-160L está probado y certificado por WQA según las normas NSF/ ANSI 42, 53, 58 y 372.

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 - Para extraer de modo continuo

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- Conserve el manual del usuario en un lugar accesible y fácil de encontrar -

INFORMACIÓN DE SEGURIDAD

Conserve esta información de seguridad.

Lea esta información para prevenir posibles pérdidas materiales y para su seguridad personal.

▲ PELIGRO: Si no sigue estas indicaciones, pueden producirse lesiones personales graves o incluso la muerte.

- No instale la unidad cerca de calentadores.
- No coloque platos o recipientes con agua, medicinas, alimentos, ni tampoco pequeños objetos de metal encima del producto.
- No ponga sobre el producto velas o cigarrillos encendidos ni cualquier otro objeto inflamable.
- Para limpiar el producto no rocíe agua ni utilice benceno.

//////////

▲ ADVERTENCIA: Si no sigue estas indicaciones, pueden producirse lesiones personales graves o daños materiales.

- Antes de utilizar el aparato lea atentamente todas las instrucciones.
- Para reducir el riesgo de lesiones es necesario extremar la vigilancia si el aparato se utiliza cuando hay niños cerca.
- Este aparato no es apto para las personas (incluidos niños) con capacidades físicas, sensoriales o mentales reducidas, o sin la experiencia y el conocimiento suficientes, a menos que sean supervisadas por personas responsables de su seguridad o hayan recibido de éstas formación sobre el uso del aparato.
- Se debe vigilar que los niños no jueguen con el aparato.
- Este aparato lo pueden utilizar los niños mayores de 8 años.
- Se deben utilizar las mangueras nuevas suministradas con el aparato y no se deben volver a utilizar las mangueras viejas.

INFORMACIÓN DE SEGURIDAD

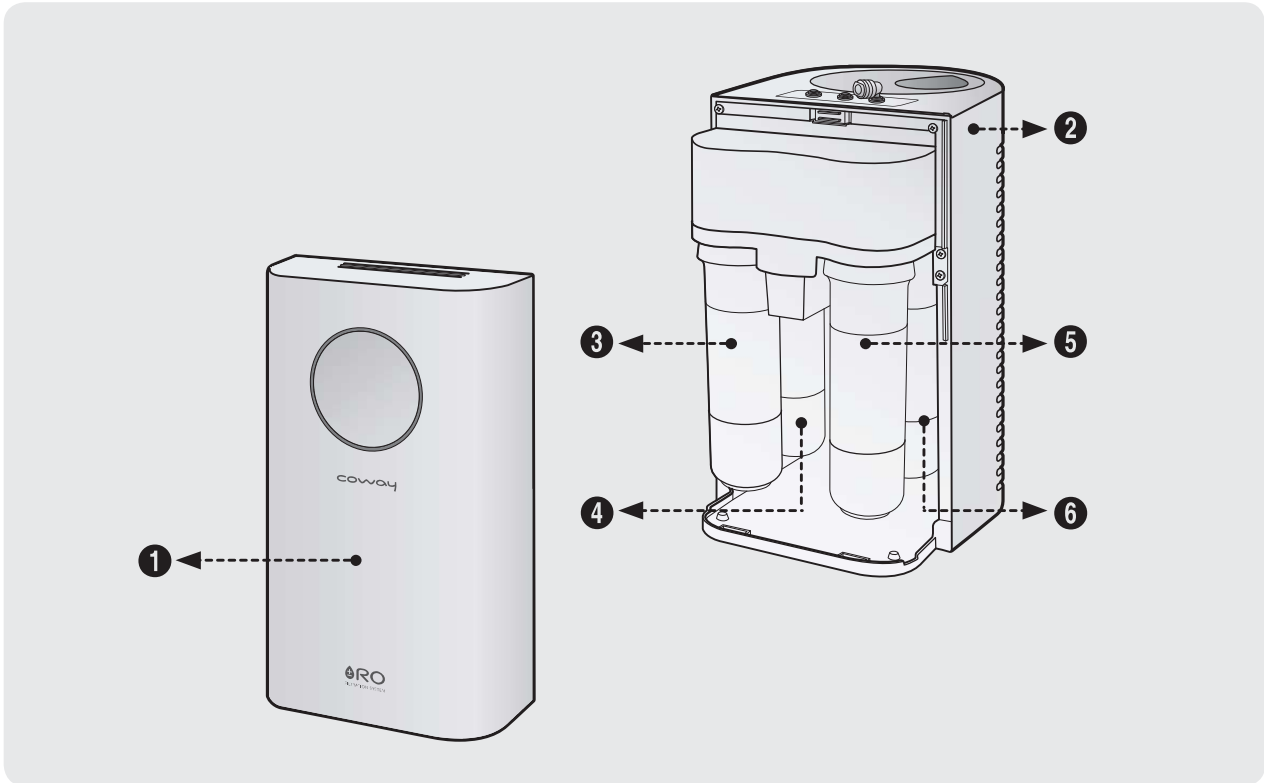
▲ PRECAUCIÓN: Si no observa estas indicaciones, se pueden producir lesiones personales leves o daños materiales.

- Utilice o coloque la unidad en una superficie nivelada y no ejerza presión sobre ella.
- Para mantener el agua limpia es imprescindible cambiar el filtro periódicamente.
- Cuando mueva el producto o cambie el filtro Plus inno-sense (D) puede haber partículas residuales negras debajo del depósito que podrían contaminar el agua almacenada.
- No utilice el agua filtrada para cambiar el agua de un acuario o una pecera.
- La instalación del dispositivo de filtración debe cumplir con todas las leyes y regulaciones nacionales y locales. No lo utilice con agua que no sea microbiológicamente segura o de calidad conocida sin una adecuada desinfección antes de utilizar el sistema.
- Es recomendable instalar el producto dentro de un fregadero.
- Si se instala fuera del fregadero se pueden generar ruidos. Para solucionar este problema, deberá adquirir piezas opcionales e instalarlas.
- La presión mínima de agua entrante debe ser de 138 kPa (20 psi). Si la presión del agua es inferior a 138 kPa (20 psi), se pueden producir ruidos o insuficiencia de agua.
- La presión de entrada máxima de agua es de 827 kPa (120 psi).
- Utilice solo accesorios recomendados o vendidos por el fabricante.
- No utilice este producto en el exterior.

GUARDE ESTA INFORMACIÓN.

NOMBRE DE LOS COMPONENTES

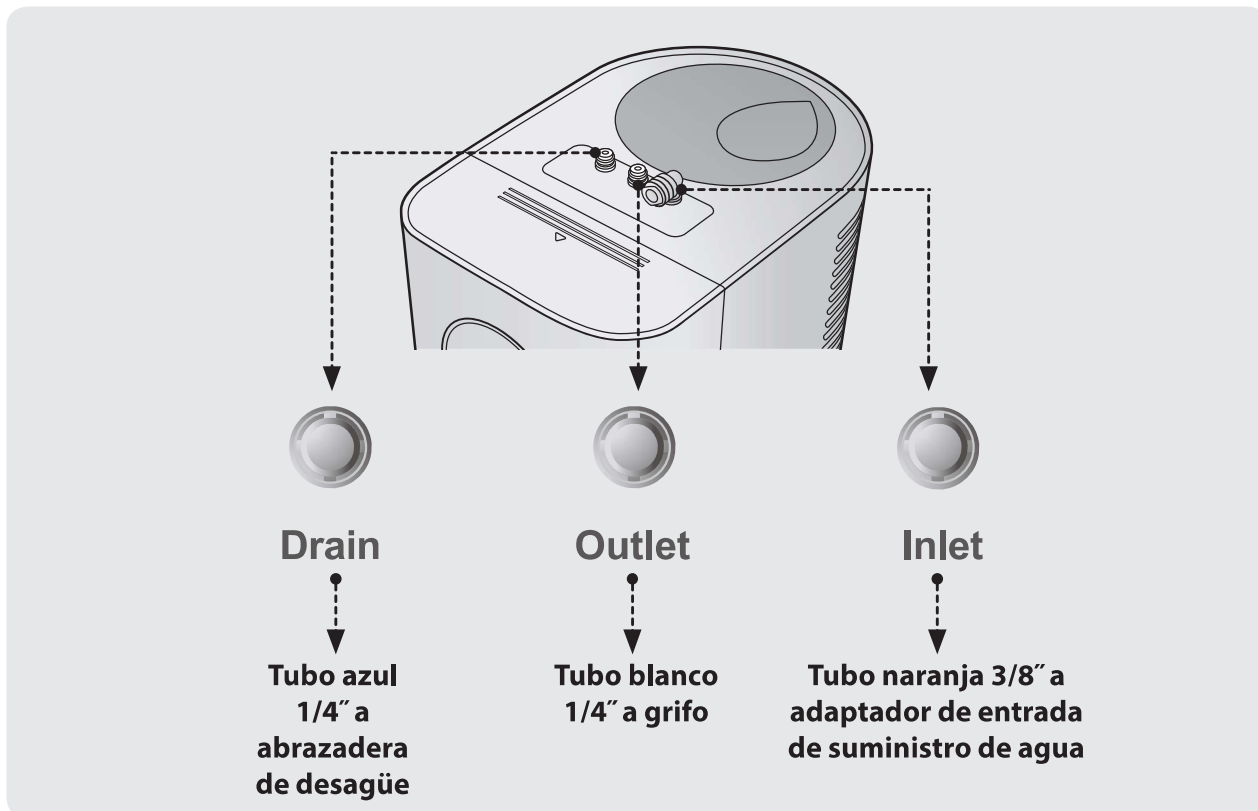
Parte frontal



- ❶ Cubierta
- ❷ Depósito de agua
- ❸ Filtro Neo-sense
- ❹ Filtro Plus inno-sense (D)
- ❺ Filtro de sedimentos (20 µm)
- ❻ Filtro de membrana OI

NOMBRE DE LOS COMPONENTES

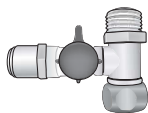
Parte superior



Accesorios



GRIFO



AJUSTE DEL SUMINISTRO DE AGUA (TIPO 3/8")



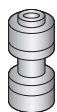
ABRAZADERA DE DESAGÜE



TUBO
① ENTRADA: TUBO DE 3/8" (NARANJA)
② SALIDA: TUBO DE 1/4" (AZUL)
TUBO DE 3/8" (AZUL)



MANUAL DEL USUARIO



MONTAJE RECTO

* Las imágenes pueden diferir del producto real.

PROCESO DE FILTRACIÓN DEL AGUA

Sistema de filtración de agua de 4 pasos (P-160L)

Paso 1: Filtro de sedimentos (20 μm)

Paso 2: Filtro Neo-sense

Paso 3: Filtro de membrana OI

Paso 4: Filtro Plus inno-sense (D)

El P-160L cumple las normas NSF/ANSI 42, 53 y 58 para la reducción del cloro estético, sabor y olor, COV, arsénico pentavalente, bario, radio 226/228, cadmio, cromo hexavalente, cromo trivalente, plomo, cobre, selenio y TDS probados y confirmados por datos de prueba.

El P-160L cumple la norma NSF/ANSI 372 para el cumplimiento del bajo contenido de plomo.

Consulte la hoja de datos de rendimiento de los contaminantes individuales y del cumplimiento de la reducción.

Funcionamiento

Desde el suministro de agua, el agua entra en el filtro de sedimentos y luego pasa al filtro Neo-sense a través del regulador. A continuación, el agua potable de la membrana, a través de la válvula de cierre automático, entra en la unidad de la membrana OI. La unidad de la membrana tiene dos conductos de salida: de agua purificada y de desagüe. Parte del agua que pasa a través de la membrana llena el depósito del agua, pero la mayor parte lava la superficie de la membrana para eliminar la cal y se vierte por el conducto de desagüe. La relación entre agua purificada y de desagüe la ajusta el limitador de flujo.

El agua purificada llena el depósito que tiene incorporada una membrana que divide el depósito en dos zonas: una de almacenamiento y otra de control. La zona de almacenamiento contiene agua purificada, mientras que la zona de control contiene agua del grifo filtrada previamente. A medida que la zona de almacenamiento se llena de agua purificada, el agua del grifo de la zona de control se presiona hacia el conducto de desagüe; cuando el depósito de agua está lleno, la válvula cierra automáticamente el suministro de agua.

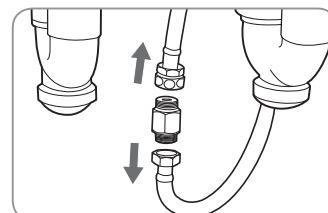
Cuando se abre el grifo de agua purificada, el agua del grifo entra en la zona de control y presiona el agua filtrada desde la zona de almacenamiento a través de la unidad de acondicionamiento del agua hasta la salida. Al mismo tiempo, la válvula abre automáticamente el suministro de agua en el purificador de agua.

INSTALACIÓN

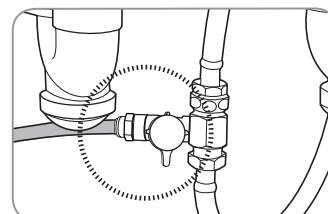
Instalación del producto

1. Bobine la cinta de teflón alrededor del adaptador y ajuste este en el conducto.

⚠ Instale el adaptador con el conector en el conducto del agua fría.

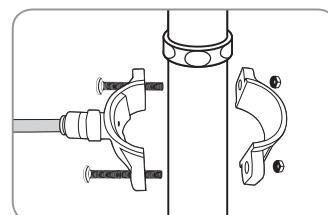


2. Conecte un extremo del tubo naranja con el adaptador del suministro de agua, conecte el tubo naranja y, a continuación, conecte el otro extremo a la entrada de agua del producto.

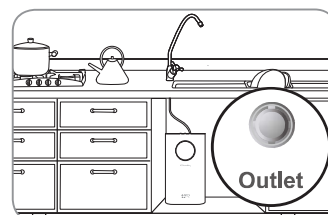


3. Practique un orificio en el conducto de desagüe e instale la abrazadera de desagüe en el orificio.

⚠ Conecte el tubo azul de la salida de agua del aparato a la abrazadera de desagüe.

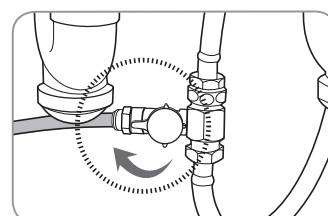


4. Conecte uno de los extremos del tubo blanco al grifo del fregadero y el otro extremo al grifo del aparato.



5. Abra el adaptador de entrada del suministro de agua para suministrar agua al sistema de filtración.

* Si tiene dudas sobre la disposición de la instalación debajo del fregadero, consulte la ilustración de la página siguiente.

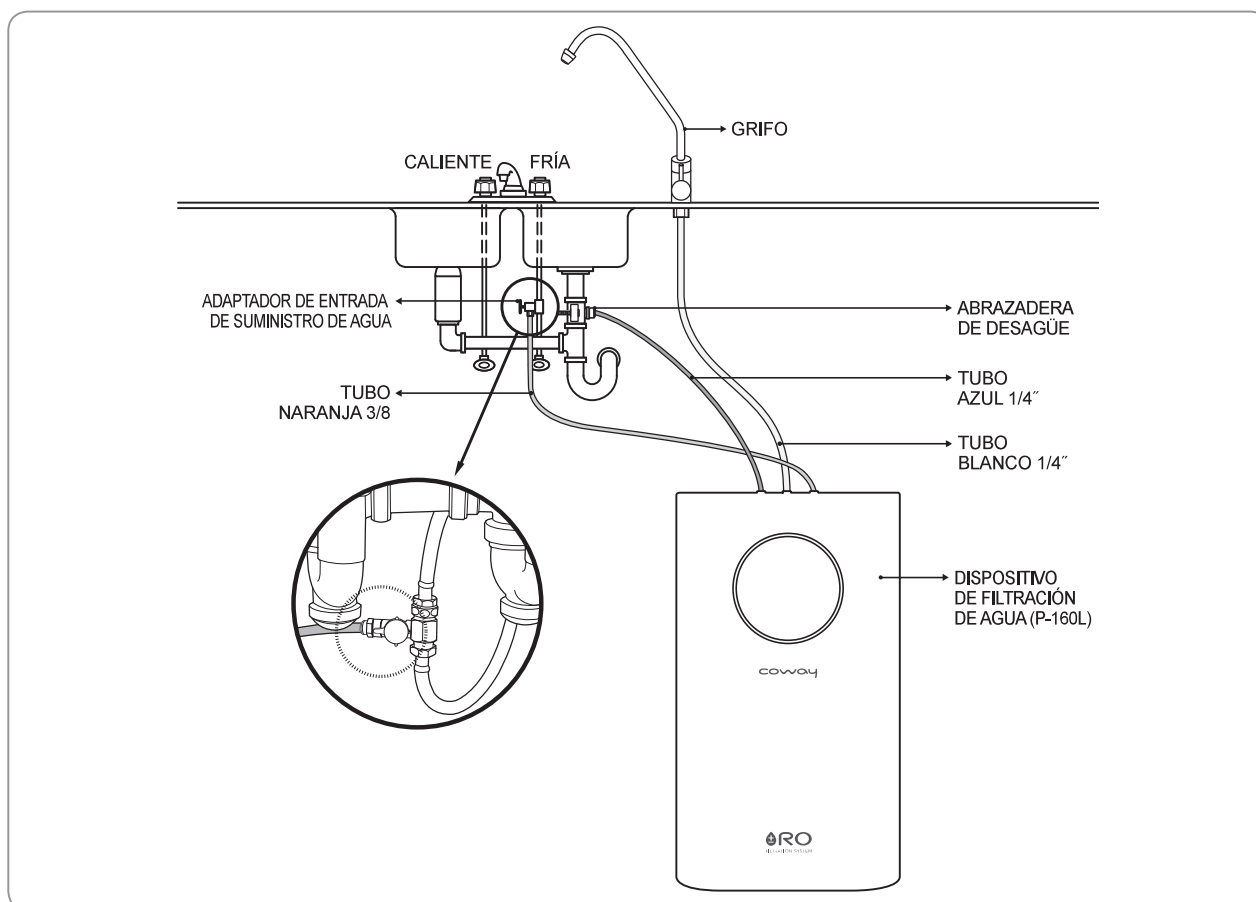


Vaciado del filtro después de la instalación

Vacíe los filtros nuevos después de completar la instalación para garantizar la higiene.

6. Abra el grifo durante unos 10 minutos para vaciar el aire de los filtros.
7. Cierre el grifo y deje que el agua fluya por el sistema durante 1 hora para vaciar el aire del resto de las partes.
8. Abra el grifo durante unos 10 minutos y vacíe los filtros y el depósito del agua.
9. Cierre el grifo.
10. Puede beber agua después de aproximadamente 1 hora.

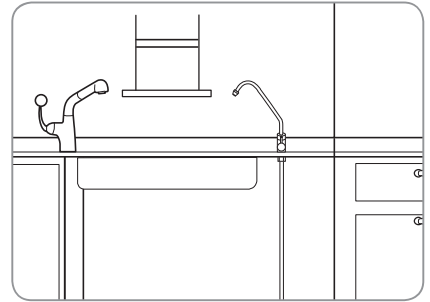
Instalación bajo el fregadero



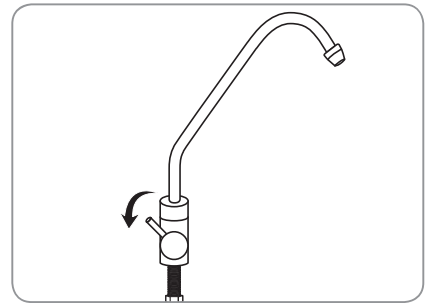
UTILIZACIÓN

Para beber el agua filtrada

1. Ponga el grifo de extracción en la posición deseada y coloque el vaso debajo para recoger el agua.

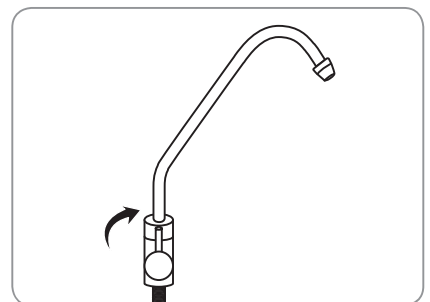


2. Para extraer el agua gire la palanca hacia la izquierda.



Para extraer de modo continuo

1. Para extraer agua de modo continuo, gire la palanca hacia la izquierda. Para detener la extracción, gire la palanca hacia la derecha.



SUSTITUCIÓN DEL FILTRO

Filtro

El filtro es el componente más importante del sistema de filtración de agua. Si no utiliza un filtro homologado o lo utiliza demasiado tiempo, puede disminuir la eficacia del filtrado.

Sustituya el filtro por un filtro homologado teniendo en cuenta el ciclo de sustitución.

Póngase en contacto con el distribuidor local de Coway para obtener los filtros de sustitución.

Ciclo de sustitución del filtro

Si el filtro no se sustituye con regularidad puede degradar la calidad del agua. El ciclo de sustitución del filtro se puede acortar según la calidad del agua de suministro.

N.º de pieza	Nombre de los filtros	Período útil
CSFM11-20	Filtro de sedimentos (20 µm)	6 meses
CNFM11	Filtro Neo-sense	6 meses
CRMFM11-50	FILTRO de membrana OI	24 meses
CIFM11-D-PLUS	Filtro Plus inno-sense (D)	6 meses

Acerca del ciclo de sustitución del filtro

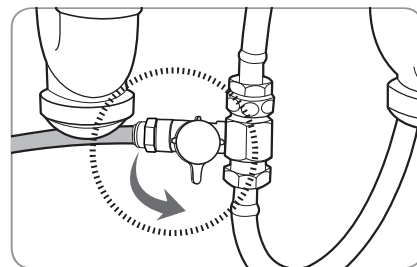
Si el filtro no se sustituye con regularidad puede degradar la calidad del agua. El ciclo de sustitución del filtro se puede acortar en función de la calidad del agua de suministro o el tiempo de uso.

SUSTITUCIÓN DEL FILTRO

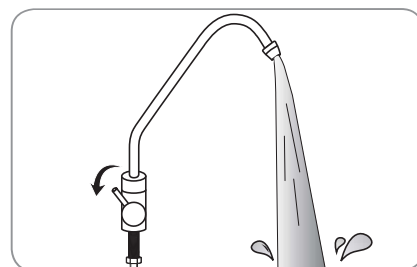
Método de sustitución del filtro

⚠ Vacíe el depósito antes de cambiar el filtro.

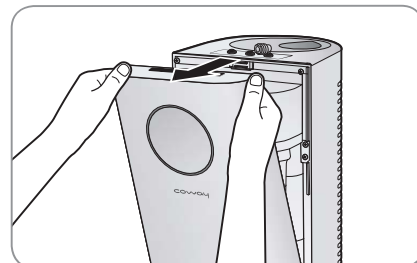
1. Cierre la válvula de suministro del agua.



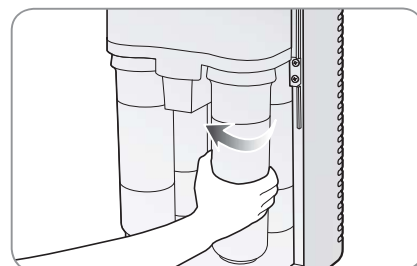
2. Mantenga abierto el grifo hasta que la presión residual del agua del sistema se libere. (Alrededor de 1 minuto.)



3. Sujete el cuerpo del producto y tire de la cubierta para abrirla.

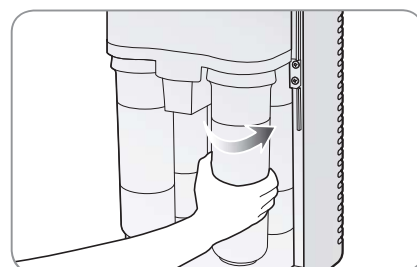


4. Gire el filtro que va a sustituir ¼ de vuelta a la derecha.

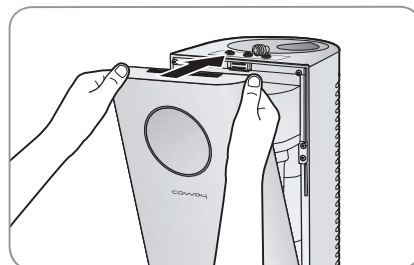


5. Instale el nuevo filtro girándolo ¼ de vuelta a la izquierda.

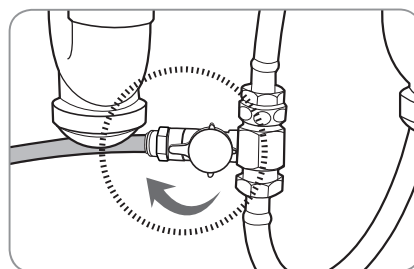
* Para instalar el filtro consulte el adhesivo en el frontal de la cubierta interior.



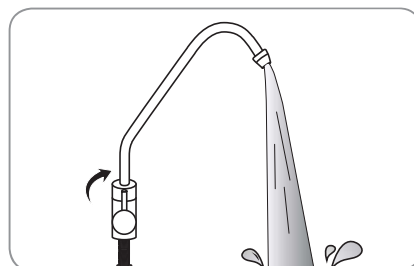
6. Cierre la cubierta.



7. Abra el adaptador de entrada del suministro de agua.



8. Vacíe el sistema; consulte la pág. 10



SOLUCIÓN DE PROBLEMAS

Si el aparato presenta problemas, utilice la válvula de cierre del aparato para cortar la entrada de agua.

Problema	Causa posible	Solución
No sale agua, esta no es suficiente o el caudal es escaso	La válvula de suministro de agua está cerrada	Abra la válvula de suministro de agua
	La presión del agua de entrada es baja	Compruebe si la presión está por encima de 20 psi; si es necesario instale una bomba elevadora de presión
	La capacidad se ha agotado	Dé tiempo a que se llene el depósito de almacenamiento del aparato
	Restricciones en las conducciones	Compruebe que no haya obstrucciones en las conexiones ni en los tubos
	Algunos filtros o la membrana OI (3) están obstruidos	Consulte el apartado de la sustitución del filtro
	La válvula WOW no está operativa	Consulte la garantía del producto en la última página de este manual Llame al número de teléfono que se indica
Flujo inesperado en el conducto de desagüe	El suministro de agua se ha restaurado	Abra el grifo durante 3 segundos y ciérrelo
	La válvula WOW no está operativa	Consulte la garantía del producto en la última página de este manual Llame al número de teléfono que se indica
No hay flujo de desagüe	Algunos filtros o la membrana OI (3) están obstruidos	Consulte el apartado de la sustitución del filtro
	El limitador de flujo no está operativo	Consulte la garantía del producto en la última página de este manual Llame al número de teléfono que se indica
El agua tiene mal sabor	Se ha cumplido el tiempo de sustitución del cartucho del filtro Plus inno-sense	Sustitución del filtro
	El cartucho del filtro Plus inno-sense nuevo no se ha vaciado completamente	Abra la espita del agua tratada y vacíe el depósito de almacenamiento una vez. Vacíe una o dos veces el agua tratada a través del filtro Plus inno-sense
	Hay problemas en la cámara del depósito	Consulte la garantía del producto en la última página de este manual Llame al número de teléfono que se indica
Agua o cubitos de hielo turbios	Hay aire disuelto en el suministro de agua	El problema se soluciona cuando cambia el estado del suministro de agua. Deje reposar el agua para que el aire disuelto se disipe
Hay fugas de agua en el aparato	El tubo no está completamente insertado en una conexión.	Asegúrese de que el tubo esté insertado al menos 1/2 pulgada en la conexión
	Un cartucho no está instalado correctamente	Asegúrese de que los cuatro cartuchos estén bloqueados en su lugar
	Hay agua asentada en la parte superior del aparato	Compruebe que no haya agua en la parte superior de la unidad debajo de la cubierta decorativa
Hay fugas en las válvulas de las espitas	El asiento de la válvula es defectuoso	Cambie el montaje de la espita
Reflujo en el espacio de aire	Hay residuos depositados en el conducto de desagüe de 1/4 de pulgada	Desconecte el tubo de la montura de desagüe y elimine los residuos o cambie el conducto de desagüe
Asa o boca rotas	Fatiga o mal uso	Cambie el montaje de la espita
Ruidos inusuales durante el funcionamiento	Hay problemas en uno de los limitadores	Consulte la garantía del producto en la última página de este manual Llame al número de teléfono que se indica

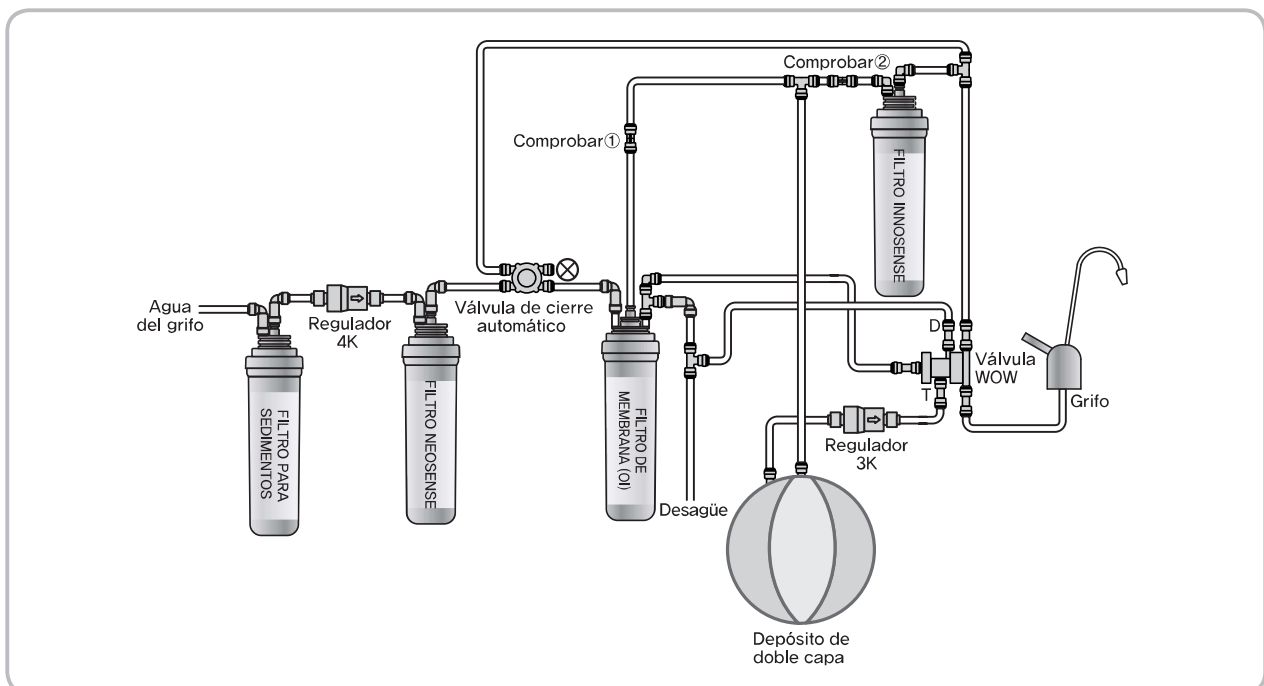
ESPECIFICACIONES

Nombre del producto	Dispositivo de filtración del agua
Modelo	P-160L
Método de filtración	Membrana OI (Ósmosis inversa)
Dimensiones	235 mm (an.) x 350 mm (pr.) x 419 mm (al.)
Temperatura de funcionamiento	5 °C - 35 °C
Presión de funcionamiento	138 kPa-827 kPa
Peso neto	6.0 kg

- El caudal de servicio y la producción pueden variar de acuerdo con la presión y la temperatura del agua.
- El producto o las piezas están sujetos a cambios sin previo aviso para la mejora del rendimiento del producto.

DIAGRAMA DEL FLUJO DE AGUA

P-160L



Water Filtration System Performance Data Sheet



Model: P-160L

This system has been tested and certified by the Water Quality Association according to NSF/ANSI 42, 53 and 58 for the reduction of the substances listed below. The concentration of the indicated substances in water entering the system was 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 58.

This system has also been tested and certified by WQA according to NSF/ANSI 372.

Substance	Influent Challenge Concentration (mg/L unless specified)	Maximum Allowable Product Water Concentration (mg/L unless specified)	Percent Reduction (%)
Arsenic (Pentavalent)	0.050 ± 10%	0.010	97.8
Barium	10.0 ± 10%	2.0	97.2
Radium 226/228	25 pCi/L	5 pCi/L	80
Cadmium	0.03 ± 10%	0.005	98.2
Chromium (Hexavalent)	0.3 ± 10%	0.1	98.6
Chromium (Trivalent)	0.3 ± 10%	0.1	99.4
Lead	0.15 ± 10%	0.010	99.1
Copper	3.0 ± 10%	1.3	98.1
Selenium	0.10 ± 10%	0.05	98.3
TDS	750 ± 40	187	94.5
Aesthetic Chlorine	2.0 ± 10%	≥ 50% reduction	91.8
VOC*	0.300 ± 10%	≥ 95% reduction	99.3

While testing was performed under laboratory conditions, actual performance may vary.

General Operating Information:

Rated Capacity	
Min-Max operating pressure:	
Min-Max feed water temperature:	
Rated Service Flow	
Daily Water Production Rate	
Product Efficiency Rating	

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Refer to the owners manual for specific installation instructions, manufacturer's limited warranty, user responsibility, and parts and service availability.
- The influent water to the system shall include the following characteristics:
 - o No organic solvents
 - o Chlorine: < 2 mg/L
 - o pH: 7 - 8
 - o Temperature: 41 ~ 95 °F (5 ~ 35 °C)
 - o Iron: < 2 mg/L
 - o Turbidity: < 1 NTU
 - o Hardness: < 1 000 mg/L

- For parts and service availability, please contact your local dealer or Coway.
- This system has been tested for the treatment of water containing pentavalent arsenic (also known as As(V), As(+5), or arsenate) at concentrations of 0.050 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual at the system inlet or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramines (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section of this Performance Data Sheet for further information.
- Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage.
- The product water should be tested every 6 months to ensure that the contaminants are being reduced effectively. Please contact your local dealer or Coway to initiate this service.
- This reverse osmosis system contains a replaceable treatment components, critical for the effective reduction of total dissolved solids and that product water shall be tested periodically to verify that the system is performing properly. Replacement of reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.
- The estimated replacement time of filter, which is a consumable part, is not an indication of quality guarantee period, but it means the ideal time of filter replacement. Accordingly, the estimated time of filter replacement may be shortened in case it is used in an area of poor water quality.

Model of Filter	Type	Usable period
CSFM11-20	Sediment filter (20 μ m)	6 months
CNFM11	Neo-sense filter	6 months
CRMFM11-50	RO membrane filter	24 months
CIFM11-D-PLUS	Plus Inno-sense filter (D)	6 months

* The Anti-bacterial filter contains silver, which is known to inhibit the propagation of microorganisms and to maintain the integrity of the filter.

ARSENIC FACTS

Arsenic (abbreviated As) is found naturally in some well water. Arsenic in water has no color, taste or odor. It must be measured by a lab test. Public water utilities must have their water tested for arsenic. You can get the results from your water utility. If you have your own well, you can have the water tested. The local health department or the state environmental health agency can provide a list of certified labs. Information about arsenic in water can be found on the Internet at the US Environmental Protection Agency website: www.epa.gov/safewater/arsenic.html There are two forms of arsenic: pentavalent arsenic (also called As(V), As(+5), and arsenate) and trivalent arsenic (also called As(III), As(+3), and arsenite). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Special sampling procedures are needed for a lab to determine what type and how much of each type of arsenic is in the water. Check with the labs in your area to see if they can provide this type of service.

Reverse osmosis (RO) water treatment systems do not remove trivalent arsenic from water very well. RO systems are very effective at removing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramine) may not convert all the trivalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system.

The P-160L system is designed to remove pentavalent arsenic. It will not convert trivalent arsenic to pentavalent arsenic. The system was tested in a lab. Under those conditions, the system reduced 0.050 mg/L pentavalent arsenic to 0.010 mg/L (ppm) (the USEPA standard for drinking water) or less. The performance of the system may be different at your installation. Have the treated water tested for arsenic to check if the system is working properly. The RO component of the P-160L system must be replaced every 24 months to ensure the system will continue to remove pentavalent arsenic. The component identification and locations where you can purchase the component are listed in the installation/operation manual.

* VOC Surrogate Claims

Chemical	Influent Challenge Concentration (mg/L unless specified)	Maximum Allowable Product Water Concentration (mg/L unless specified)	Percent Reduction (%)
alachlor	0.050	0.001	> 98
atrazine	0.100	0.003	> 97
benzene	0.081	0.001	> 99
carbofuran	0.190	0.001	> 99
carbon tetrachloride	0.078	0.0018	98
chlorobenzene	0.0775	0.001	> 99
chloropicrin	0.015	0.0002	99
2,4-D	0.110	0.0017	98
dibromochloropropane(DBCP)	0.052	0.00002	> 99
o-dichlorobenzene	0.080	0.001	> 99
p-dichlorobenzene	0.040	0.001	> 98
1,2-dichloroethane	0.088	0.0048	95 ⁵
1,1-dichloroethylene	0.083	0.001	> 99
cis-1,2-dichloroethylene	0.170	0.0005	> 99
trans-1,2-dichloroethylene	0.086	0.001	> 99
1,2-dichloropropane	0.080	0.001	> 99
cis-1,3-dichloropropylene	0.079	0.001	> 99
dinoseb	0.170	0.0002	99
endrin	0.053	0.00059	99
ethylbenzene	0.088	0.001	> 99
ethylene dibromide (EDB)	0.044	0.00002	> 99
haloacetonitriles (HAN)			
bromochloroacetonitrile	0.022	0.0005	98
dibromoacetonitrile	0.024	0.0006	98
dichloroacetonitrile	0.0096	0.0002	98
trichloroacetonitrile	0.015	0.0003	98
halo ketones (HK):			
1,1-dichloro-2-propanone	0.0072	0.0001	99
1,1,1-trichloro-2-propanone	0.0082	0.0003	96
heptachlor (H-34,Heptox)	0.08	0.0004	> 99
heptachlor epoxide	0.0107 ⁶	0.0002	98
hexachlorobutadiene	0.044	0.001	> 98
hexachlorocyclopentadiene	0.060	0.000002	> 99
lindane	0.055	0.00001	> 99
methoxychlor	0.050	0.0001	> 99
pentachlorophenol	0.096	0.001	> 99
simazine	0.120	0.004	> 97
styrene	0.150	0.0005	> 99
1,1,2,2-tetrachloroethane	0.081	0.001	> 99
tetrachloroethylene	0.081	0.001	> 99
toluene	0.078	0.001	> 99
2,4,5-TP (silvex)	0.270	0.0016	99
tribromoacetic acid	0.042	0.001	> 98
1,2,4-trichlorobenzene	0.160	0.0005	> 99
1,1,1-trichloroethane	0.084	0.0046	95
1,1,2-trichloroethane	0.150	0.0005	> 99
trichloroethylene	0.180	0.0010	> 99
trihalomethanes (includes):			
chloroform (surrogate chemical)			
bromoform			
bromodichloromethane	0.300	0.015	95
chlorodibromomethane			
xylenes (total)	0.070	0.001	> 99

MEMO

**WARRANTY CARD OR WARRANTY LETTER
ONE YEAR LIMITED WARRANTY
WATER FIRTRATION DEVICE P-160L(“PRODUCT”)**

Model:

Serial Number:

Customer Name:

(“OWNER”)

Date of Purchase:

What This Warranty Covers:

Commencing with the date of purchase of the Product and continuing for a period of one year, if manufacturing defects in the Product cause the Product to not operate properly for its intended use, then subject to the exclusions, conditions, and limitations contained herein, COWAY at its sole option will repair or replace the Product.

Decisions as to the extent of repair or replacement required will be made solely by COWAY.

The remedy under this Warranty is available only for that portion of the Product exhibiting defects at the time of the warranty claim. The replacement Product as well as any remaining original Product will be warranted only for the original one year warranty period. This limited warranty applies only to Product used for an application specified by COWAY for the Product and applied in strict accordance with COWAY published specifications in effect at the time of application. IF PRODUCT IS USED FOR OTHER THAN ITS INTENDED PURPOSE, IT IS SOLD AS IS AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

What This Warranty Does Not Cover:

This Warranty warrants that the Product will be free from manufacturing defects which affect the ability of the Product to operate for its intended use; it is not a warranty that the Product will never require repairs or to undertake responsibilities, liabilities or obligations other than those specifically identified in the preceding section. COWAY is not responsible or liable for personal injury or property damage of any kind, even if arising from a breach of this Warranty.

Limitations and Exclusions:

TO THE EXTENT PERMITTED BY APPLICABLE LAW, COWAY DISCLAIMS ANY OTHER WARRANTY EXPRESS OR IMPLIED, THAN THAT GUARANTEES FOR HEREIN. THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, PROVIDES, CONDITIONS AND REPRESENTATIONS, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY IMPLIED CONDITIONS OR WARRANTIES AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE COWAY PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. COWAY DOES NOT AUTHORIZE ANY PERSON INCLUDING ITS REPRESENTATIVES, TO MAKE ANY REPRESENTATION OR TO OFFER ANY WARRANTY, CONDITION OR GUARANTY IN RESPECT OF THE PRODUCT OTHER THAN THIS WARRANTY. THIS LIMITED WARRANTY SHALL BE THE OWNER'S SOLE AND EXCLUSIVE REMEDY AGAINST COWAY AND COWAY SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, EXEMPLARY, SPECIAL, INCIDENTAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, AND LOSS OF USE. INCIDENTAL, CONSEQUENTIAL AND EXEMPLARY DAMAGES SHALL NOT BE RECOVERABLE EVEN IF THE REMEDIES OR THE ACTIONS PROVIDED FOR IN THIS WARRANTY FAIL OF THEIR ESSENTIAL PURPOSE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. COWAY SHALL NOT BE LIABLE FOR ANY DAMAGES WHICH ARE BASED UPON NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY OR ANY OTHER LEGAL THEORY OF LIABILITY OTHER THAN THE EXCLUSIVE LIABILITY SET FORTH IN THIS WARRANTY

Limitations on Implied Warranties:

Any implied warranty of merchantability or fitness for a particular purpose or use, shall be limited to the duration of the foregoing express written warranty.

Conditions of Warranty:

COWAY's continuing liability under this Warranty is conditioned upon the following :

- a) The defect or damage is not caused by or is the result of : abnormal use or conditions; improper storage, unauthorized modifications or repair; misuse, neglect, accident, alteration, improper installation or other acts that are not the fault of Coway or the manufacturer of the product or that are not covered by the manufacturer's warranty;
- b) The Product has not been altered, modified or repaired without prior written approval of COWAY;
- c) The OWNER has notified COWAY in writing of any failure of the Product covered by this Warranty within thirty (30) days following such failure;

- d) There has been no misuse, abuse or negligence with respect to the Product on the part of the OWNER.

Waiver:

COWAY's failure at any time to enforce or rely upon any of the terms or conditions stated herein shall not be construed to be a waiver of its rights hereunder.

Obtaining Warranty Service and OWNER'S Duties:

If the Product fails to operate for its intended purpose, then notify Coway or its Representative Agency within 48 hours or within the next business day after discovery of any defect in the Product. The OWNER must give written notice to COWAY no later than thirty (30) days after a defect is discovered or should by reasonable diligence have been discovered. Claims under this Warranty will require proof of purchase by the OWNER.

COWAY

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THAILAND

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coway

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