A.J. Antunes & Co.
VIZION Water Filtration System
Model VZN-441V and VZN-441VE

Semi-annual maintenance tasks

BE 46 S1	Check the Permeate Tank Air Pre-Charge
BE 46 S2	Replace and Rinse the Carbon Element (VZN-441V only)
BE 46 S3	Sanitize the System (VZN-441V only)

Annual maintenance tasks

BE 46 A1	Replace and Rinse the Carbon Element (VZN-441VE only)
BE 46 A2	Sanitize the System (VZN-441VE only)

Every 5 Years maintenance tasks

BE 46 51	Replace and Rinse the Ultra Filter Cartridge

Model VZN-441V Shown

△ Hazards
These icons alert you to a possible risk of personal injury.

Equipment alerts
Look for this icon to find information about how to avoid damaging the equipment while doing a procedure.

✪ Tips
Look for this icon to find helpful tips about how to do a procedure.

AJA P/N 1011143 Rev. C 11/14

Check Permeate Tank Air Pre-Charge | Semi-annual | BE 46 S1

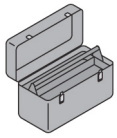
Why To verify the permeate tank is set to 28-31 PSI.

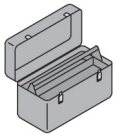
Time required 5 minutes to prepare — 10 minutes to complete

Time of day After close — For 24-hour restaurants: during breakfast menu

Hazard icons Electricity

Tools and supplies

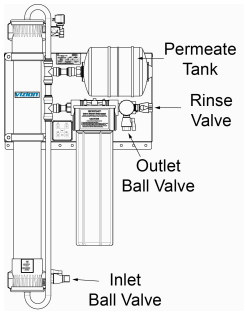

Air Pressure Gauge (supplied by technician)


Air Compressor (supplied by technician)


Bucket

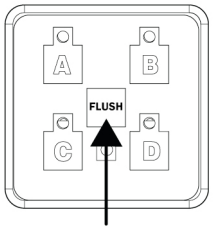
Procedure

1 Turn off water to System.
Turn off water to the system by closing the Inlet Ball Valve and the Outlet Ball Valve.

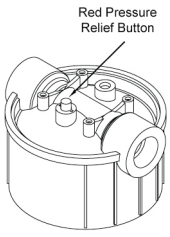


Equipment Alert
The system must be depressurized before taking the next step.

2 Flush the System.
Press the **FLUSH** button to flush the system and relieve pressure. Repeat several times to ensure permeate tank is empty.

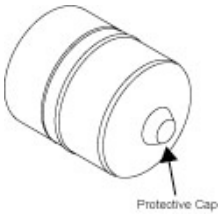


3 Relieve System Pressure.
Press and hold the Red Pressure Relief Button on the top of the Carbon Element Housing to lower the system water pressure.

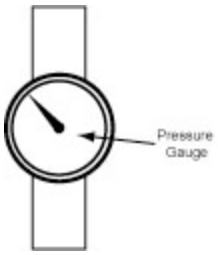


Tip
Use a bucket to collect any water that leaks from the fitting.

4 Remove Tank Cap
Unscrew the protective cap from the air valve on the tank.

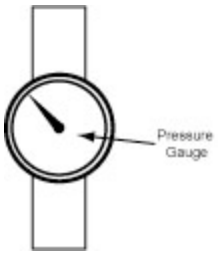


5 Check Tank Pressure
Use the pressure gauge to check the tank pre-charge pressure.



Equipment Alert
If any water comes out of the air valve, the tank bladder has ruptured and the tank must be replaced.

6 Verify Tank has 28-31 PSI
The tank must be set to 28-31 PSI. If the pressure is too low, add air using the Air Compressor. If the pressure is too high, press the center pin on the valve to release air from the tank.



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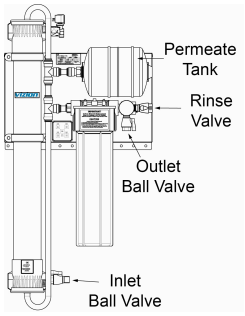
7 **Return System to use.**
When the tank pressure is 28-31 PSI, replace the protective cap. Then close the Rinse Ball valve and open the Outlet Ball Valve. Slowly open the Inlet Ball Valve.



Replace and Rinse the Carbon Element (VZN-441V only)

Semi-Annual | **BE 46 S2**

Why	To ensure the system always has a good working Carbon Element.	
Time required	5 minutes to prepare	10 minutes to complete
Time of day	After close	For 24-hour restaurants: during breakfast menu
Hazard icons	Electricity	

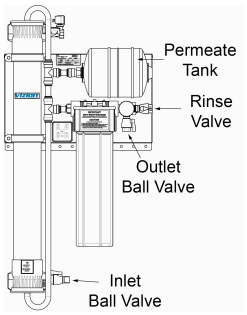
Tools and supplies

Bucket

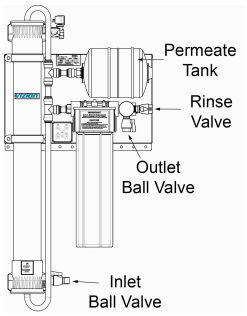
Procedure

1 Turn off water to System.
Turn off water to the system by closing the Inlet Ball Valve and the Outlet Ball Valve.

Electricity
Use caution as the system power cord will be plugged in during these steps.

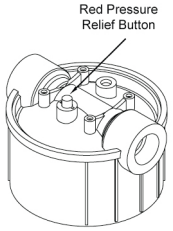


2 Drain Permeate Tank.
Open the Rinse Ball Valve and allow the permeate tank to drain completely.

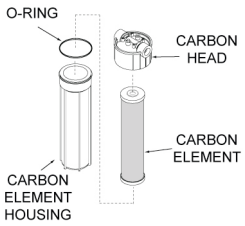


3 Relieve System Pressure.
Press and hold the Red Pressure Relief Button on the top of the Carbon Element Housing to lower the system water pressure.

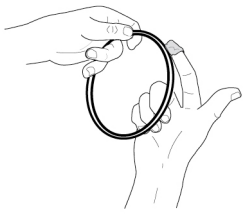
Tip
Use a bucket to collect any water that leaks from the fitting.



4 Discard Old Carbon Element
Unscrew the Carbon Element Housing from the system. Empty any water in the housing and discard the old Carbon Element.

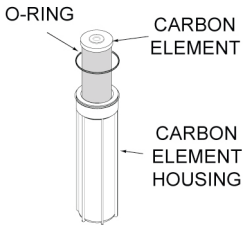


5 Inspect/Replace and Lubricate O-ring.
Inspect the Carbon Element O-ring for nicks or cuts. Replace if needed. Lubricate all new O-rings or O-rings that were removed with a food-grade silicone lubricant and reinstall.



6 Install new Carbon Element.
Place the new Carbon Element inside the Carbon Element Housing. Make sure the gaskets are properly seated on the top and bottom of the Carbon Element.

Tip
Follow the directions included with the carbon cartridge using plastic gloves.



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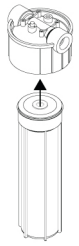
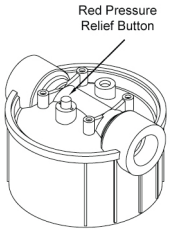
7 Screw Carbon Element Housing into place.
Screw the Carbon Element Housing into the Carbon Element head until you feel it hit the stop.



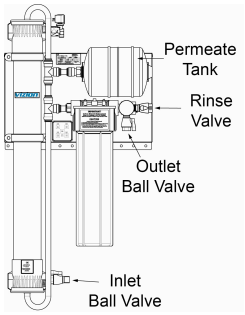
Tip
Use a filter wrench if needed.

8 Rinse the System for 5 minutes.
Direct the Rinse Valve to a drain then slowly open the Rinse Ball Valve and the Inlet ball Valve. Press and hold the Red Pressure Relief Button on the top of the Carbon Element Head to relieve any trapped air in the system



Equipment Alert
Do NOT drink or use any of the water produced during the Rinse operation.

9 Return System to use.
When rinsing is complete, close the Rinse Ball valve and open the Outlet Ball Valve.



Why	To eliminate possible contamination.	
Time required	10 minutes to prepare	20 minutes to complete
Time of day	After close	For 24-hour restaurants: during breakfast menu
Hazard icons	Electricity	

Tools and supplies


KAY-5® Sanitizer

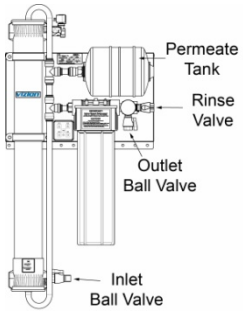

Bucket, plastic


Pliers, Slip-joint


Measuring Cup, Clear

Procedure

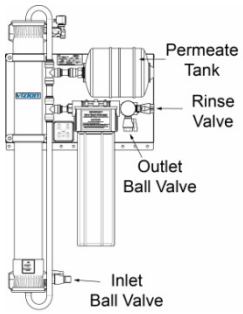
1 Turn off water to System.
Turn off water to the system by closing the Inlet Ball Valve and the Outlet Ball Valve.



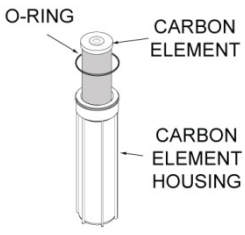
2 Open Rinse Valve.
Open the Rinse Valve.

Allow the system and plumbing to drain.

Tip
If an inlet sanitation fitting is installed, remove or disconnect the water line at the inlet.



3 Remove Carbon Element.
Remove the Carbon Element if installed and reattach the housing.

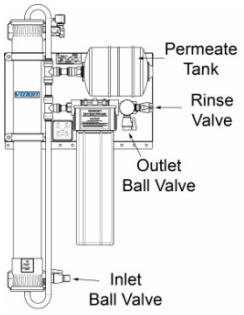


4 Mix Sanitizer Solution.
One ounce (30 ml) of liquid chlorine bleach (regular bleach, unscented 5.25 % - 6 % sodium hypochlorite) or Kay-5 sanitizer solution or equivalent can be used to sanitize the plumbing.
The Kay-5 sanitizer solution is made by dissolving a 1 oz. packet of Kay-5 powder in 2 oz. (60 ml) of clean warm water. This can be done by removing 1 inch from the top of the Kay-5 packet and adding the 2 oz. of warm water to the packet. Mix with a coffee stirrer to dissolve. When added to the system, this will create a 60-100 ppm chlorine solution.

Chemicals
KAY-5® Sanitizer Solution or Bleach

5 **Introduce Sanitizer Solution into Filtration System.**
Pour the sanitizer solution into the inlet water line or inlet sanitation fitting with a measuring cup or funnel.

Reattach the plug on the inlet water line or inlet sanitation fitting.



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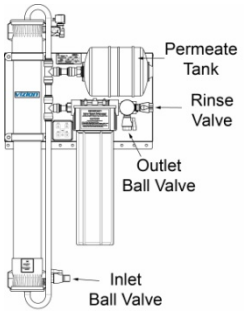
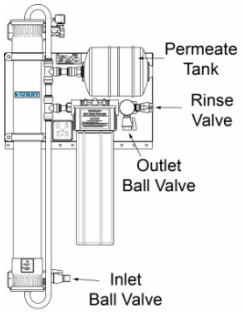
6 **Turn on Water.**
Slowly turn on the water to the system by opening the Inlet Valve.

Allow water to flow until the smell of sanitizer is present from the flush valve.



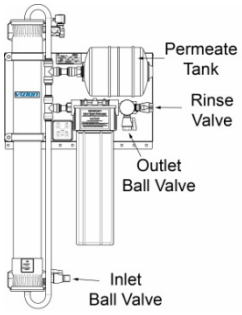
7 **Close the Rinse Valve.**
Close the Rinse Valve. Let the system stand without water flow for 15 minutes.

8 **Open the Rinse Valve.**
Open the Rinse Valve. Let the water flow until the presence of sanitizer is gone.



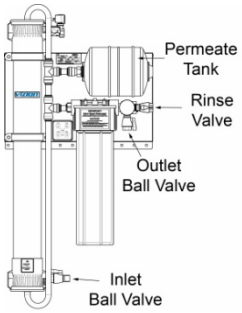
9 **Open Water Valve on Beverage Dispenser.**
Open the water valve on the Beverage Dispenser in line with the system until the presence of sanitizer is gone.

10 **Close Inlet and Outlet.**
Close the Inlet and Outlet Valves. Open the Rinse Valve to relieve pressure.

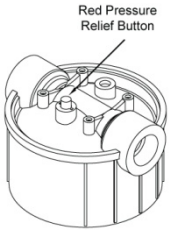


11 **Re-Install Carbon Element.**
Re-install or replace the Carbon Element.

12 **Open Inlet and Outlet.**
Slowly open the Inlet and Outlet Valves.

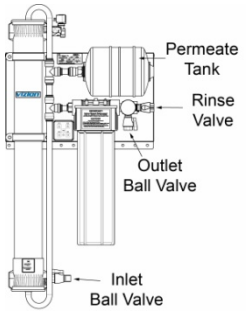


13 **Rinse the System for 5 minutes.**
Direct the Rinse Valve to a drain then open the Rinse Ball Valve and the Inlet ball Valve. Press and hold the Red Pressure Relief Button on the top of the Carbon Head to relieve any trapped air in the system.



Equipment Alert
Do NOT drink or use any of the water produced during the Rinse operation.

14 **Return System to use.**
When rinsing is complete, close the Rinse Ball Valve and open the Inlet and Outlet Ball Valves. Sanitizing is complete.



Replace and Rinse the Carbon Element (VZN-441VE only)

Annual | **BE 46 A1**

Why To ensure the system always has a good working Carbon Element.

Time required 5 minutes to prepare | 10 minutes to complete

Time of day After close | For 24-hour restaurants: during breakfast menu

Hazard icons Electricity

Tools and supplies

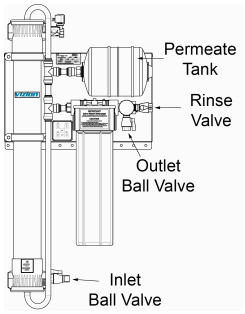
Bucket

Food Grade Lubricant

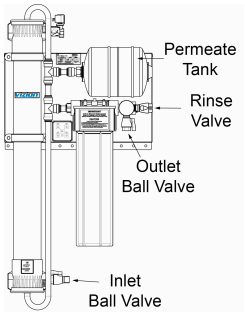
Procedure

1 Turn off water to System.
Turn off water to the system by closing the Inlet Ball Valve and the Outlet Ball Valve.

Electricity
Use caution as the system power cord will be plugged in during these steps.

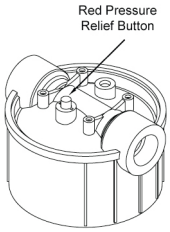


2 Drain Permeate Tank.
Open the Rinse Ball Valve and allow the permeate tank to drain completely.

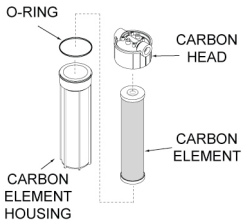


3 Relieve System Pressure.
Press and hold the Red Pressure Relief Button on the top of the Carbon Element Housing to lower the system water pressure.

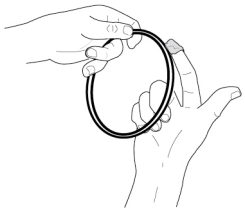
Tip
Use a bucket to collect any water that leaks from the fitting.



4 Discard Old Carbon Element
Unscrew the Carbon Element Housing from the system. Empty any water in the housing and discard the old Carbon Element.

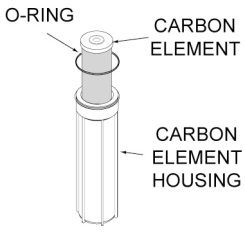


5 Inspect/Replace and Lubricate O-ring.
Inspect the Carbon Element O-ring for nicks or cuts. Replace if needed. Lubricate all new O-rings or O-rings that were removed with a food-grade silicone lubricant and reinstall.



6 Install new Carbon Element.
Place the new Carbon Element inside the Carbon Element Housing. Make sure the gaskets are properly seated on the top and bottom of the Carbon Element.

Tip
Follow the directions included with the carbon cartridge using plastic gloves.



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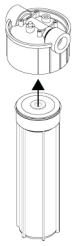
7 Screw Carbon Element Housing into place.

Screw the Carbon Element Housing into the Carbon Element head until you feel it hit the stop.

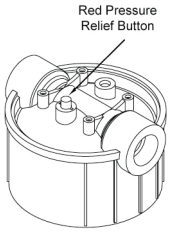


Tip

Use a filter wrench if needed.

8 Rinse the System for 5 minutes.

Direct the Rinse Valve to a drain then slowly open the Rinse Ball Valve and the Inlet ball Valve. Press and hold the Red Pressure Relief Button on the top of the Carbon Element Head to relieve any trapped air in the system

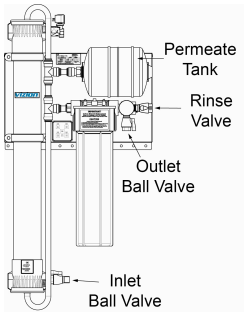


Equipment Alert

Do NOT drink or use any of the water produced during the Rinse operation.

9 Return System to use.

When rinsing is complete, close the Rinse Ball valve and open the Outlet Ball Valve.



Why	To eliminate possible contamination.	
Time required	10 minutes to prepare	20 minutes to complete
Time of day	After close	For 24-hour restaurants: during breakfast menu
Hazard icons	Electricity	

Tools and supplies


KAY-5® Sanitizer

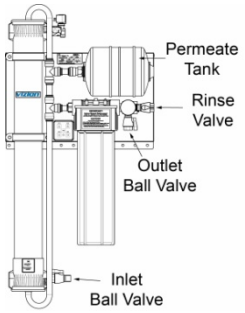

Bucket, plastic


Pliers, Slip-joint


Measuring Cup, Clear

Procedure

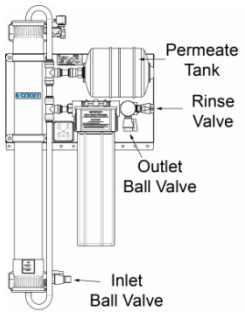
1 Turn off water to System.
Turn off water to the system by closing the Inlet Ball Valve and the Outlet Ball Valve.



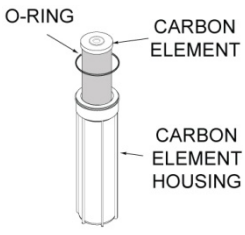
2 Open Rinse Valve.
Open the Rinse Valve.

Allow the system and plumbing to drain.

Tip
If an inlet sanitation fitting is installed, remove or disconnect the water line at the inlet.



3 Remove Carbon Element.
Remove the Carbon Element if installed and reattach the housing.

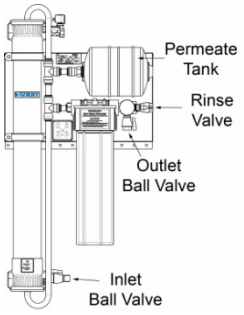


4 Mix Sanitizer Solution.
One ounce (30 ml) of liquid chlorine bleach (regular bleach, unscented 5.25 % - 6 % sodium hypochlorite) or Kay-5 sanitizer solution or equivalent can be used to sanitize the plumbing.
The Kay-5 sanitizer solution is made by dissolving a 1 oz. packet of Kay-5 powder in 2 oz. (60 ml) of clean warm water. This can be done by removing 1 inch from the top of the Kay-5 packet and adding the 2 oz. of warm water to the packet. Mix with a coffee stirrer to dissolve. When added to the system, this will create a 60-100 ppm chlorine solution.

Chemicals
KAY-5® Sanitizer Solution or Bleach

5 **Introduce Sanitizer Solution into Filtration System.**
Pour the sanitizer solution into the inlet water line or inlet sanitation fitting with a measuring cup or funnel.

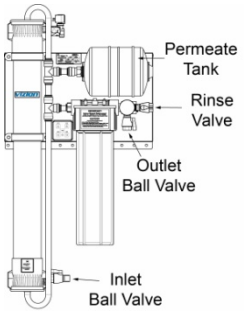
Reattach the plug on the inlet water line or inlet sanitation fitting.



continued ▶

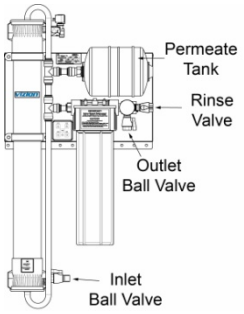
6 **Turn on Water.**
Slowly turn on the water to the system by opening the Inlet Valve.

Allow water to flow until the smell of sanitizer is present from the flush valve.



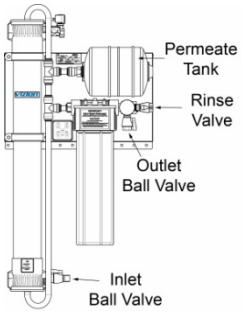
7 **Close the Rinse Valve.**
Close the Rinse Valve. Let the system stand without water flow for 15 minutes.

8 **Open the Rinse Valve.**
Open the Rinse Valve. Let the water flow until the presence of sanitizer is gone.



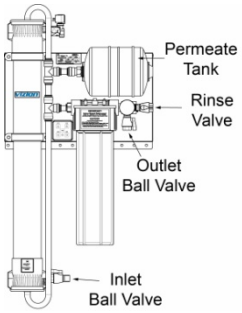
9 **Open Water Valve on Beverage Dispenser.**
Open the water valve on the Beverage Dispenser in line with the system until the presence of sanitizer is gone.

10 **Close Inlet and Outlet.**
Close the Inlet and Outlet Valves. Open the Rinse Valve to relieve pressure.

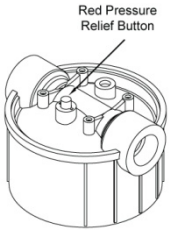


11 **Re-Install Carbon Element.**
Re-install or replace the Carbon Element.

12 **Open Inlet and Outlet.**
Slowly open the Inlet and Outlet Valves.

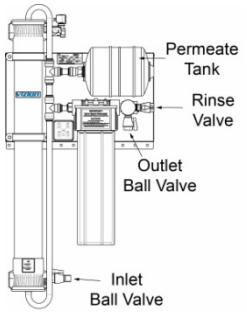


13 **Rinse the System for 5 minutes.**
Direct the Rinse Valve to a drain then open the Rinse Ball Valve and the Inlet ball Valve. Press and hold the Red Pressure Relief Button on the top of the Carbon Head to relieve any trapped air in the system.



Equipment Alert
Do NOT drink or use any of the water produced during the Rinse operation.

14 **Return System to use.**
When rinsing is complete, close the Rinse Ball Valve and open the Inlet and Outlet Ball Valves. Sanitizing is complete.



Why	To ensure the highest quality filtered water.	
Time required	10 minutes to prepare	20 minutes to complete
Time of day	After close	For 24-hour restaurants: during breakfast menu
Hazard icons	Electricity	

Tools and supplies

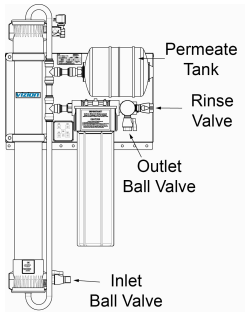
Bucket

Pliers, Slip-joint

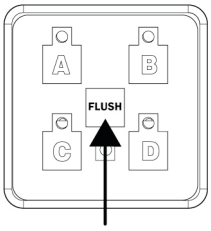
Procedure

1 Turn off water to System.
Turn off water to the system by closing the Inlet Ball Valve and the Outlet Ball Valve.

Electricity
Use caution as the system power cord will be plugged in during these steps.

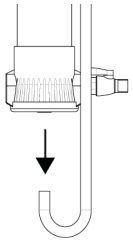


2 Flush the System.
Press the **FLUSH** button to flush the system and relieve pressure. Repeat several times to ensure permeate tank is empty or open Rinse Valve to relieve pressure.

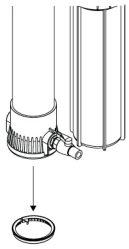


3 Disconnect Bottom Tubing.
Disconnect the long hooked tubing from bottom of the UF Housing by pushing the collet squarely against the face of the fitting and pulling down.

Tip
Use a bucket to collect any water that leaks from the fitting.

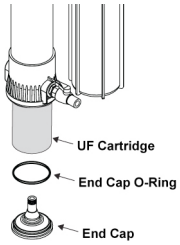


4 Remove the Snap Ring
Using pliers, pull the Snap Ring off of the End Cap.

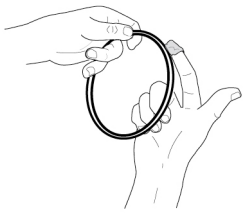


5 Remove the UF Cartridge.
Remove the End Cap and End Cap O-Ring from the UF cartridge and then pull the cartridge from the housing.

Tip
If you have trouble removing the cartridge, remove the opposite End Cap and push the cartridge out from the top.



6 Inspect/Replace and Lubricate O-rings.
Inspect all O-rings for nicks or cuts. Replace if needed. Lubricate all new O-rings or O-rings that were removed with a food-grade silicone lubricant and reinstall.



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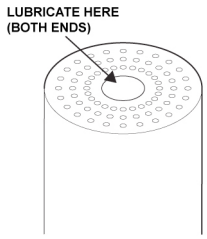
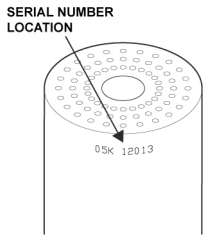
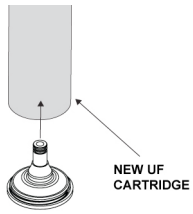
7 **Lubricate new UF Cartridge.**
Apply a light coating of lubricant to the inside center tube at both ends of the new UF Cartridge.



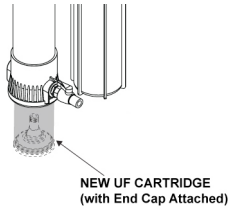
8 **Record Cartridge Serial Number.**
Record the serial number of the new cartridge. The serial number is engraved on one end of the outer tube (such as: 05K 12013).



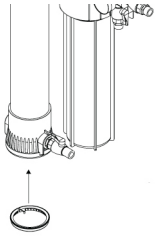
9 **Connect End Cap to new UF Cartridge.**
Attach the End Cap O-Ring to the End Cap. Connect the End Cap to the UF Cartridge.



10 **Insert UF Cartridge into Housing.**
Slide the new UF Cartridge into the Housing and press the End Cap until it is tightly sealed.

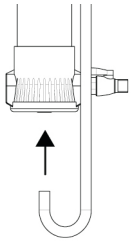


11 **Reconnect Snap Ring.**
Reconnect the Snap Ring into the groove of the End Cap. Listen for the ring to snap into place.

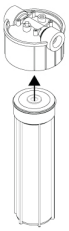


12 **Reattach Bottom Tubing**
Reattach the Bottom Tubing you removed in step 3 to the End Cap. Be sure to push the tubing into the fitting until it stops.

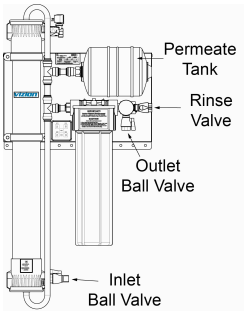
Equipment Alert
Be sure to push the tubing fully into the fitting otherwise the unit will leak. Apply a small amount of silicone lubricant to the end of the tubing.



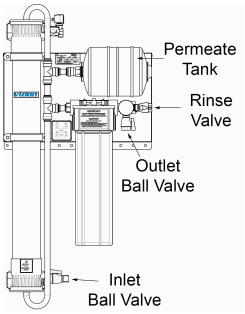
13 **Remove Carbon Element.**
Remove the Carbon Element from the system. Reattach Carbon Element Housing.



14 **Direct Rinse Ball Valve.**
Direct the Rinse Ball Valve to a drain.



15 **Close Outlet Ball Valve.**
Close the Outlet Ball Valve.



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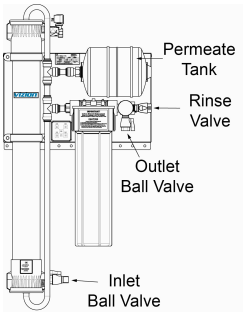
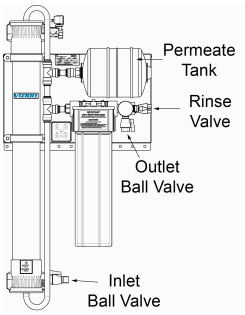
16 **Open the Rinse Ball Valve.**
Open the Rinse Ball Valve.

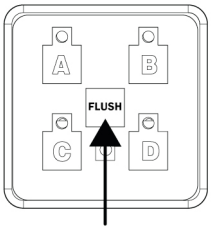


17 **Open Inlet Ball Valve.**
Slowly open the Inlet Ball Valve. Air and water will come out of the Rinse Ball Valve.

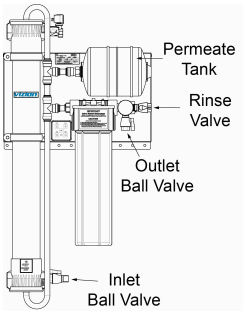


18 **Flush the system.**
Press the FLUSH button to open the drain valve and allow air and water to come out of the drain line.

Repeat six times to ensure all air and storage solution are flushed out of the cartridge.

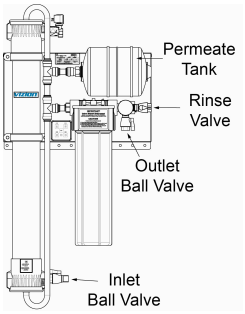


19 **Allow water to flow.**
Allow the water to run at full flow out of the Rinse Ball Valve for at least 15 minutes.

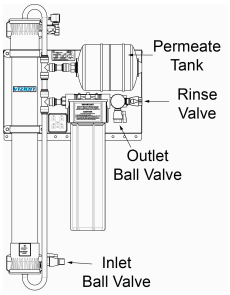


20 **Close Rinse Ball Valve.**
Close the Rinse Ball Valve. Let the system sit for 15 minutes without any water flow to release any trapped air from the cartridge.

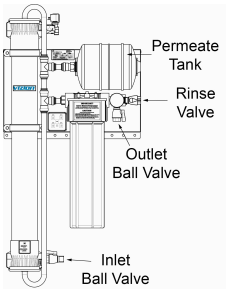
Inspect the unit for leaks and repair as needed.



21 **Open Rinse Ball Valve.**
Open the Rinse Ball Valve. Wait 5 minutes to flush out any remaining air.

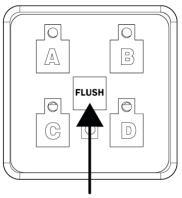


22 **Close Rinse Ball Valve.**
Close the Rinse Ball Valve. Disconnect the garden hose



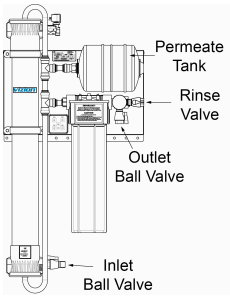
23 **Flush the system.**
Press the FLUSH button to open the drain valve.

Repeat six times to ensure any remaining air is flushed out of the system.



24 **Open Water Valve on Beverage Dispenser.**
Open the water valve on the Beverage Dispenser in line with the system.

25 **Open Outlet Ball Valve.**
Slowly open the Outlet Ball Valve. Allow water to run through the system and out the water valve for 5 minutes.



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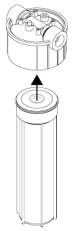
26 **Install Carbon Element.**
Install the Carbon Element into the system. Refer to PM Card BE 46 S2 or A1 for replacing and rinsing the carbon element.



Tip
Make sure to sanitize the system after installing a new UF cartridge. For VZN-441V systems, refer to PM Card BE 46 S3. For VZN-441VE systems, refer to PM Card BE 46 A2.