Multipure®

MULTIPURE®

Multipure Drinking Water Systems

Aquaperform OWNER'S MANUAL

For Model Nos. MP880SC, MP880SB, MP880SI and MP880EL

Please retain this manual for future reference.

Multipure Drinking Water Systems

Thank you for selecting a Multipure Drinking Water System to meet your need for quality drinking water. You have acquired one of the finest drinking water treatment devices available for the reduction of a wide array of contaminants. We are confident that your Multipure System will make a difference in your life. Thank you for your business.

Table of Contents

About the Aquaperform Drinking Water System

- The Multipure Aquaperform Drinking Water System (Model# MP880) is designed for use on the countertop next to the sink, below the sink, or inline with other devices. It can connect to the existing faucet or to the water source below the sink.
- The Aquaperform includes all the accessories and fittings required for installation (except for the MP880SI Inline unit).
- If installation or operation assistance is required, please contact your Multipure Independent Distributor. If the Independent Distributor is unavailable, please contact Multipure Customer Service at 800.622.9206.

Before You Begin

Multipure Drinking Water Systems (DWS) have been extensively tested and certified by NSF International to provide the highest level of assurance that the device will perform as claimed. Please read this manual before proceeding with the installation and use of your system. Installation, operation, and maintenance requirements are essential to the performance of your system – failure to follow any instructions or operating parameters contained herein may lead to product damage or product failure.

- Replacement filters can be purchased directly from Multipure. For the latest prices, please visit our website at http://www.multipure.com/store/.
- Actual filter life depends on the amount of water used and the level of impurities in the water. *See 4.1: Regarding Filter Capacity* for additional details.
- Multipure Drinking Water Systems are not intended for use with microbiologically unsafe water or non-municipally-treated water. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts. *See 5.5: Frequently Asked Questions* for additional details.
- Do not allow water to freeze in the system. If the system is exposed to freezing temperatures, drain water from the system and remove the filter. Allow the filter to thaw before replacing and reusing.
- Do not allow water to sit in the system for extended periods of time (e.g., 10 days or more) without use. *See 4.5: Flushing / Disinfecting the System* for additional details.
- To dispose of the used filter, remove it from the housing and place in normal refuse. Filters disposed in a normal landfill will not release any chemical contaminants and may continue to adsorb additional contaminants in the landfill.
- Check for compliance with any state or local laws and regulations before use.

Specifications

Specifications	
Model Name	Aquaperform (MP880)
Approximate Filter Capacity	600 gallons
Approximate Filter Capacity with Capacity Monitor	960 gallons
Replacement Filter Type	CB11As
Approximate Flow Rate @60 psi	1.0 gpm
Housing Composition	Stainless Steel
Rubber Items	Nitrile (NBR)
Outlet	1/4" tube x 1/8" pipe
Inlet	1/4" tube x 1/8" pipe
Working Pressure Range	30 psi (2.1 kg/cm^2) to 100 psi (7.0 kg/cm^2)
Operating Temperature Range	32° F (0° C) to 100° F (38° C) – for cold water use only
Particle Retention Size	0.5 micron (sub-micron)
Certified By	NSF International

Below Sink Installation Overview & Part Numbers

Item #	Part #	Part Description
1	MC652	Faucet assembly with blue tubing attached
2	MC780	Wing nut
3	MC720	Outlet adapter - connects to blue tubing attached to faucet
4	MC720	Inlet adapter - connects to clear tubing
5	MCL500	Housing top
6	MC252-BLK	Black Rubber Cushion (inside housing top)
7	CB11As	Carbon Block Filter

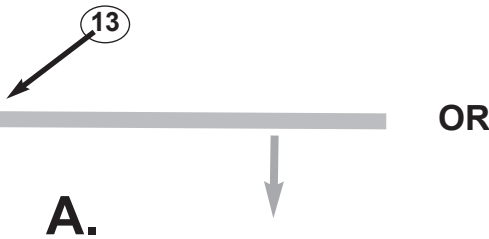| Item #	Part #	Part Description
8	MC253ASBL	V-band with knob
9	MC126	Bracket
10	MC351	O-ring
11	MCB7.5D-18	Housing bottom
12	011-25-4100	Acrylic sleeve*
13	MC232RH	Clear tubing -connects inlet adapter to plumbing
14	MC920LF	Adapta Valve

Connect clear tubing to plumbing -- Option A or B
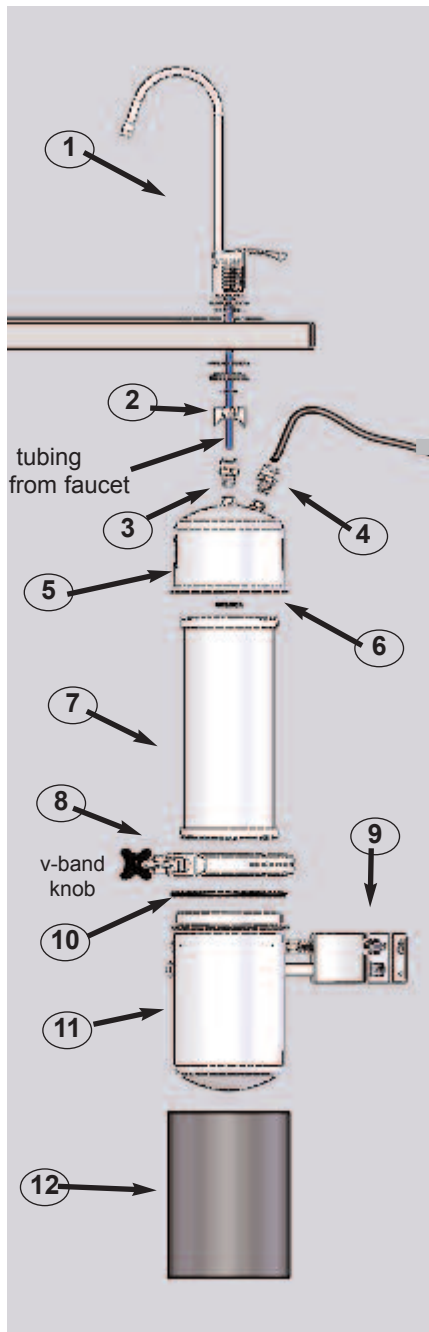
Note: the Aquaperform MP880SI Inline unit does not inlcude the following parts: faucet assembly (#1), wing nut (#2), outlet adapter (#3), inlet adapter (#4), sleeve (#12), clear tubing (#13), adapta valve (#14)

1

2

tubing from faucet

3

4

5

6

7

8

v-band knob

9

10

11

12

13

OR

A.

Water supply line with Adapta Valve in 3/8" configuration

1/2" slip joint nut

riser

14

Adapta Valve 3/8" configuration

3/8" slip joint nut

angle stop valve

B.

Water supply line with Adapta Valve in 1/2" configuration

14

Adapta Valve 1/2" configuration

1/2" slip joint nut

riser

angle stop valve
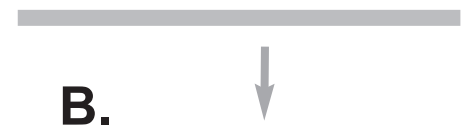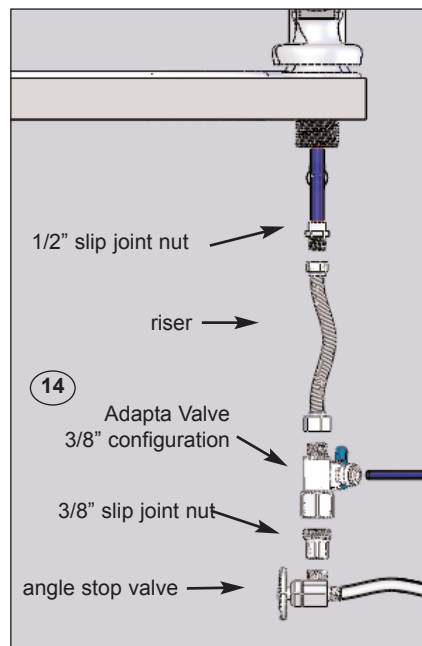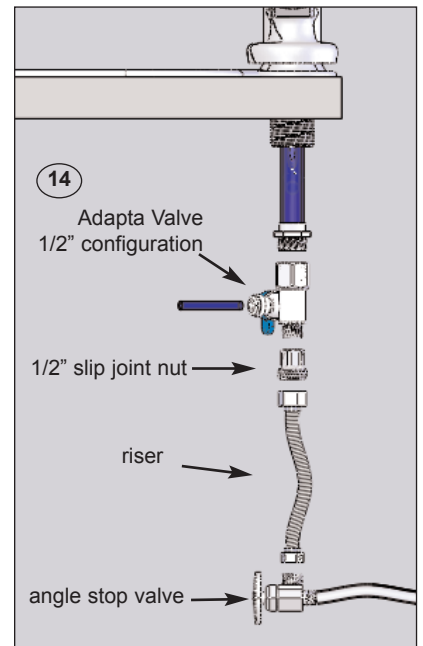
* The acrylic sleeve (Item#12) is an optional part available for purchase.

Part Numbers

1.	MC6400ASBL	Hose and Diverter Valve
2.	MCL500	Housing Top
3.	MC252-BLK	Black Rubber Cushion (inside housing top)
4.	MC253ASBL	Locking V-Band
5.	CB11As	Arsenic Filter
6.	MC351	O-Ring
7.	MCB7.5D-18	MP880 Housing Bottom
8.	011-25-4100	Acrylic base
9.	MC700	Standard Adapters (see page 7*)

Diverter Valve

Diverter Valve

Hose
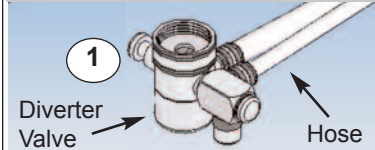
Model MP880SC
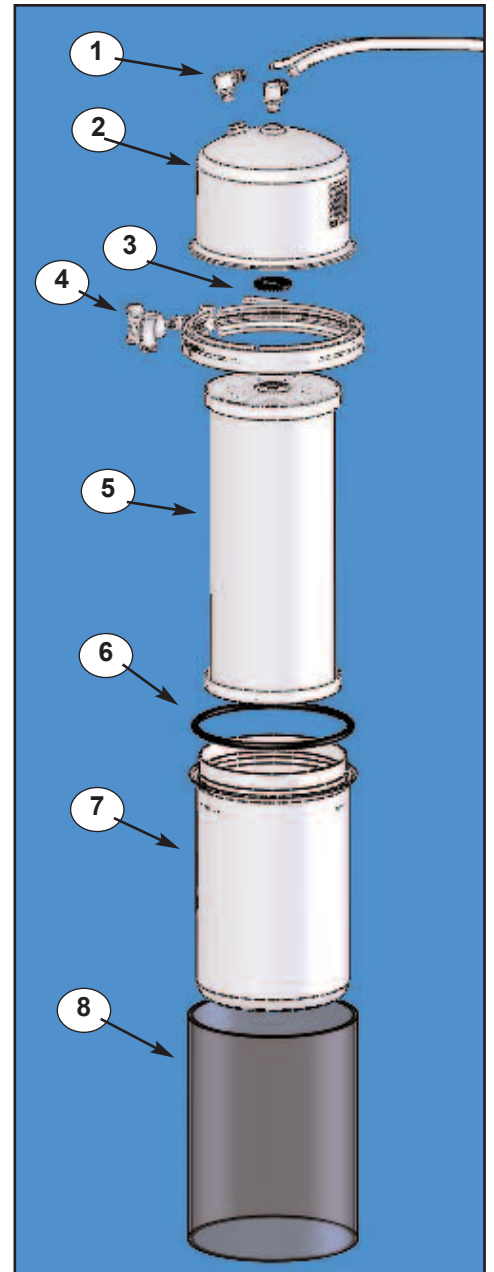
1.   INSTALLATION PREPARATION

Before beginning, inspect your DWS to confirm that it has been
received in good condition and that all parts are included (refer to the
specific installation section for the parts list). Perform the following
instructions prior to system installation.

Should you require assistance, please contact your Independent
Distributor; if she/he is not able to help you, please feel free to con-
tact Multipure's Customer Service Department directly at
800.622.9206.

Model MP880SB

1.1: Installing the Filter Cartridge

1. **If you have not done so already, remove the plastic wrapper and instruction wrap from around the filter.**
2. With the DWS housing in an upright position, unscrew the black knob on the Locking V-Band by turning it counter-clockwise.
3. With the black knob removed, spread the Locking V-Band apart and lift up and off of the DWS. Carefully set it aside.
4. Lift the top half of the DWS off of the bottom half. Make sure that the black O-ring remains in place on the bottom half of the housing.
5. Align the threaded hole of the filter cartridge onto the inside thread of the top half of the DWS. Rotate the cartridge clockwise to tighten; the cartridge typically requires four to five revolutions to tighten adequately. Make sure that the cartridge is threaded properly and straight. DO NOT OVERTIGHTEN.
6. Reconnect the top half of the DWS (with attached filter cartridge) with the bottom half. Replace the Locking V-Band, making sure the screw is in place to connect the band together.
7. Screw the black knob onto the Locking V-Band, turning it clockwise to tighten.
8. Make sure that the Locking V-Band is secured tightly and evenly around the top and bottom halves of the DWS housing.

top

Rubber cushion

V-Band

V-Band Knob

turn to connect
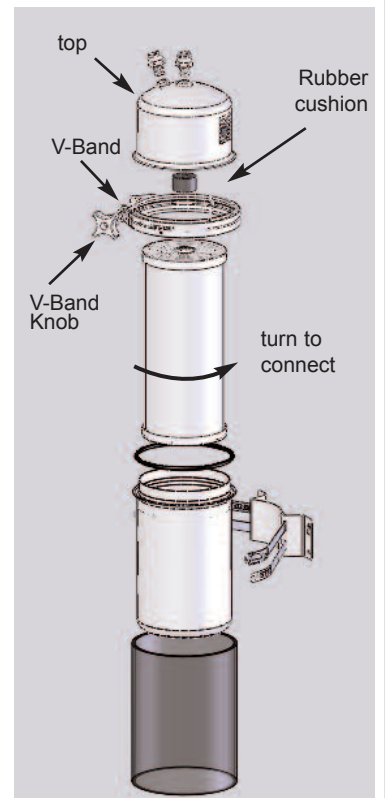
1.2: Locating the Appropriate Installation Instructions

1.   Determine your installation type (e.g., countertop, below sink, inline).
2.   Proceed to the instructions for your installation type:
      a.   For Countertop Installation, proceed to section **2. Countertop Installation.**
      b.   For Below Sink Installation (with or without a capacity monitor), proceed to section **3. Below Sink Installation**.
      c.   For Inline Installation, proceed to section **3.6: Installing the System for Inline Use.**

2.   Countertop Installation

When installing on a countertop, the Aquaperform sits atop its included acrylic base on the counter next to the sink. It connects to the existing faucet via a dual-hose diverter valve. Follow these instructions to connect the Aquaperform for countertop use.

2.1: Connecting the Hose and Diverter Valve to the Faucet

1. Remove the aerator or screen (if present) from the end of the faucet. If facing the open end of the spout, rotate the aerator counter-clockwise to loosen and remove.
2. Thread the diverter valve and hose through the acrylic base. Set the system housing (with the diverter valve and hose facing downward) onto the acrylic base.
3. Attach the diverter valve directly to the faucet spout. If the threads of the diverter valve do not match the threads of the faucet, use one of the included faucet adapters to connect the diverter valve and faucet. If facing the open end of the spout, rotate the diverter valve and/or adapter clockwise to tighten.
   NOTE: When using a faucet adapter, the rubber washer in the adapter always faces up toward the faucet.
   a. If Your Faucet Has an Outside Thread (male connector):
      For many faucets with an outside thread, the diverter valve can attach directly to the faucet. If the diverter valve is too small to attach to the faucet, attach the inside thread (female connector) adapter, part# MC106, to the faucet, and then attach the diverter valve to the adapter.
   b. If Your Faucet Has an Inside Thread (female connector):
      The diverter valve cannot directly connect to a faucet with a female connector. Attach one of the outside thread (male connector) adapters, part# MC107 or part# MC108, to the faucet, and then attach the diverter valve to the adapter. MC107 is designed to fit larger faucets, and MC108 is designed to fit smaller faucets.
   c. If Your Faucet Requires More Room for the Diverter Valve Connection:
      Some faucets, particularly sprayer hose faucets, require additional room for the diverter valve connection. If this applies, attach the long adapter, part# MC257, to the opening of the faucet spout/sprayer, and then attach the diverter valve to the adapter. The DWS may need to be repositioned on the sink to allow enough room for sprayer faucet use.
   d. If the Adapters Do Not Fit Your Faucet:
      Although the adapters included with your DWS allow connections with many standard faucets, they do not cover every type of available faucet connection. If none of the adapters allow the diverter valve to connect to your faucet, please contact Multipure Customer Service at 1.800.622.9206, ext. 175, to request part# MC105, part# MC109, or part# MC719 as possible adapter solutions.
4. When connected properly, the hose from the diverter valve should lead toward the back of the faucet and sink.
5. The diverter valve features a bypass lever with a button on the left and right sides of the diverter valve. Press the left button to bypass the DWS and select the unfiltered water spout (larger opening). Turn on your faucet to let unfiltered water flow out of the diverter valve and to make sure that the diverter valve is properly connected.
6. Turn off the faucet.
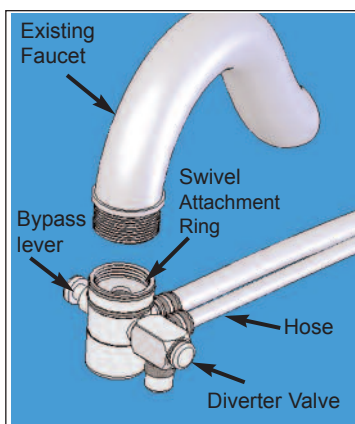
Diverter Valve Attachment
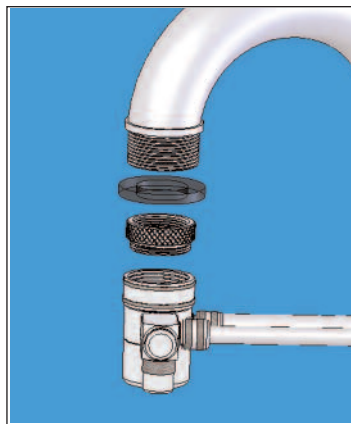
Diverter Valve Attachment
with adapter
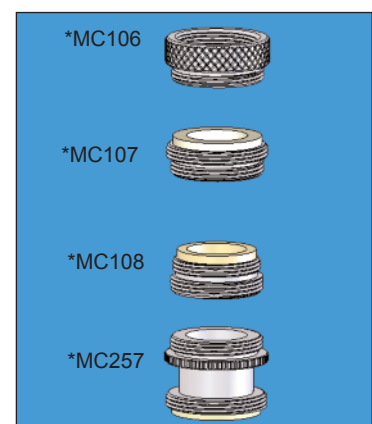
*MC700 - Adapters (choose one)
Many installations do not
require an adapter

2.2: Preparing and Operating Your Drinking Water System

1. Using a paper towel or cloth, dry off all connections and the DWS housing.
2. Make sure that all connections are tightly secured.
3. Purge any air from the unit.
   a. Press the right button on the diverter valve to select the filtered water spout. The water will flow through the DWS and emerge from the smaller opening on the diverter valve.
   b. Allow water to flow through the DWS and filtered water spout for five minutes.
   c. Press the left button to select the unfiltered water spout, and then turn off the faucet.
4. Make sure that all connections are tightly secured and that there are no leaks.
5. Turn on the faucet and press the right button to select the filtered water spout.
6. Allow water to flow through the DWS and filtered water spout for approximately **30 minutes**. This will flush the filter prior to use.
7. Press the left button to select the unfiltered water spout.
8. Turn off the faucet.
9. Check all connections to make sure that there are no leaks.
10. The system is now ready for use.

bypass lever
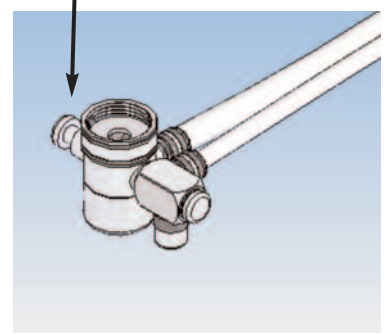
3.   Below Sink Installation

The Aquaperform models MP880SB and MP880EL are designed for use below the sink and can be installed on the incoming cold water line. The MP880SB and MP880EL systems are connected to a specially designed faucet which installs directly on the sink.

3.1: Required Installation Tools

The following tools are required to install your Aquaperform for below-sink use:

1. Installing the faucet on a ceramic/porcelain sink:
   a.   3/8" reversible electric drill
   b.   7/16" (or 1/2") high speed steel drill bit
   c.   1/2" carbide-tipped masonry drill bit
   d.   hammer
   e.   center punch
   f.   8" adjustable wrench
   g.   pliers/locking pliers

2. Installing the faucet on a stainless steel sink:
   a.   everything from list #1, plus 1/8" high speed drill bit

3. Installing the Adapta Valve:
   a.   8" adjustable wrench
   b.   wire cutter or knife

Model MP880SB

3.2: Installing the Faucet

The Aquaperform faucet can be installed through a standard faucet hole or spray hose hole in your sink, if one is available. If no hole is available, refer to section **3.2-a: Drilling the Faucet Hole.** Note that there are separate sections for installing a faucet with or without a capacity monitor.

Proceed to the instructions for your installation type:

1. For a standard faucet, proceed to section **3.2-b: Installing the Standard Faucet**.
2. For a capacity-monitored faucet, proceed to section **3.2-c: Installing the Capacity Monitor Faucet**.

3.2-a: Drilling the Faucet Hole

1. Select and mark the faucet mounting spot on the sink.
    a.   Confirm that there are no reinforcing ribs under the desired faucet location.
    b.   If you have an extra hole in your sink for a spray hose, you may also choose to disconnect the spray hose and use that existing hole for the DWS faucet.

2. Use the hammer to gently tap the center punch on the sink location where the hole is to be drilled. This creates an indentation marking the location to drill.

If You Have a Porcelain, Ceramic, or Cast Acrylic Sink:
CAUTION: Porcelain, ceramic, and cast acrylic surface materials are extremely hard and can crack or chip quite easily. Use extreme caution when drilling. Multipure is not responsible for any damages resulting from faucet installation.

Mark the Spot

NOTE: If you are installing a capacity monitor, you MUST use the 1/2" high-speed steel drill bit for step 2.

1. Use the 1/2" carbide-tipped masonry drill bit to grind away the porcelain down to the metal, clearing away enough porcelain to allow drilling without damaging the porcelain surface.

2. Carefully use the 7/16" (or 1/2") high-speed steel drill bit to completely drill a hole through the metal sink. CAUTION: Do not allow the drill bit to "grab" the porcelain, as this will damage the surface.

Carefully grind away porcelain
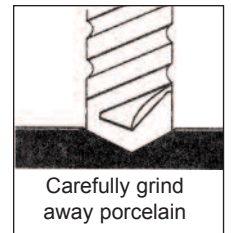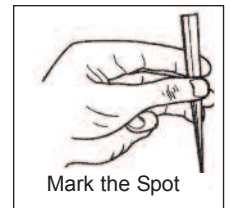
If You Have a Stainless Steel or Metal Sink:
NOTE: If you are installing a capacity monitor, you MUST use the 1/2" high-speed steel drill bit for step 2.

1. Use the 1/8" high-speed drill bit to drill a pilot hole.
2. Use the 7/16" (or 1/2") high-speed steel drill bit to completely drill a hole through the metal sink.

> **Note: For drilling a hole in your countertop,
> please consult with the countertop manufacturer.**
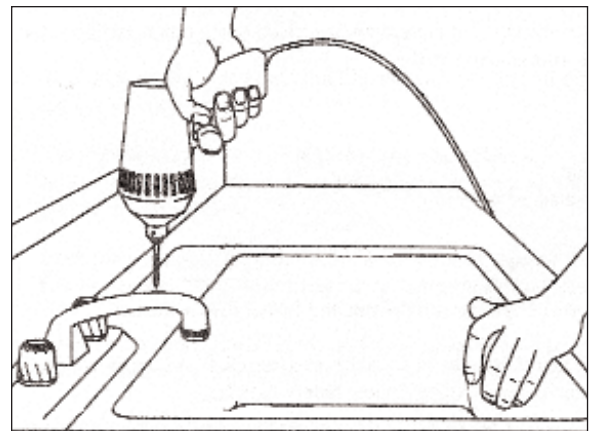
**Complete Faucet Assembly
with Blue Tubing
MC652**

small black washer

Cover Plate

large black washer

COUNTERTOP

Plastic Washer

Lock Washer

Wing Nut

Blue Tubing
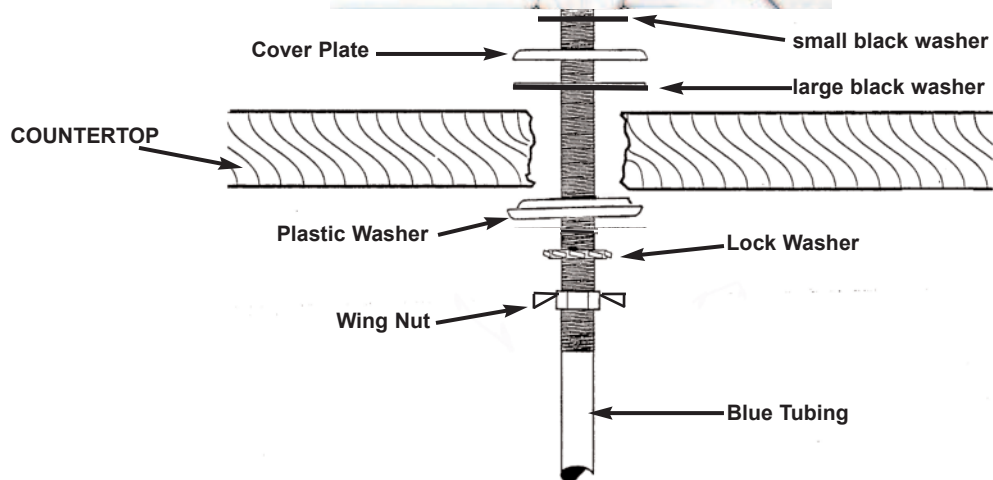
NOTE: The blue plastic tubing is attached to the faucet.

1. From the sink / countertop:
   a.   Place the larger soft black rubber washer over the faucet hole.
   b.   Place the cover plate on top of the large washer.
   c.   Place the smaller soft black rubber washer on top of the cover plate.
   d.   Place the faucet base over the smaller soft black rubber washer and atop the cover plate.

2. From under the sink:
   a.   Slide the hard plastic black washer (with the smaller side up) upward over the blue tubing.
   b.   Slide the lock washer upward, below the hard plastic washer.
   c.   Slide the wing nut upward, below the lock washer.
   d.   Hand-tighten the wing nut to secure the faucet.

3.2-c: Installing the Capacity Monitor Faucet

When the Aquaperform is installed with a capacity monitor, the DigiFlow 5000V Capacity Monitor (MC993) flashes red when the filter should be changed. Two AAA batteries (not included) are required for capacity monitor operation. The Capacity Monitor consists of two main parts, the LED Display Plate that sits below the faucet, and the Filter Monitor Unit (FMU) that connects in-line between the drinking water system housing and the faucet.

Installation Overview

Countertop

black wire from capacity indicator plate

tubing from housing

tubing from faucet

Filter Monitor Unit

Faucets with Capacity Monitor include:

1 spout
2 faucet handle
3 faucet base
4 faucet stud
5 tubing (blue) attached to faucet
6 smaller rubber washer
7 LED display plate
8 black wire (attached to #7)
9 larger rubber washer
10 black track washer
11 hard plastic black washer
12 lock washer
13 wing nut
14 filter monitor unit
15 two adapters (MC744)

NOTE: In addition to the blue plastic tubing attached to the faucet. A separate piece of blue tubing is included for connection between the housing OUTLET port and the Filter Monitor Unit.

1. From the sink / countertop:
   a. Place the LED Display Plate (#7) over the faucet hole.
   b. Feed the attached black wire (#8) down through the faucet hole. Rotate the LED Display Plate so that the indicator light will be easy to see.
   c. Place the faucet base (#3) on top of the LED Display Plate. Feed the blue tubing and faucet stud down through the hole in the sink. The faucet stud should now be accessible below the sink.

2. From under the sink:
   a. Slide the black track washer (#10) (with the flat side down) upward over the threaded faucet stud. Guide the black wire (#8) from the LED Display Plate through the track to protect the wire and prevent it from becoming pinched between the sink and the stud nut.
   b. Slide the hard plastic black washer (#11) upward over the blue tubing (#5), and faucet stud (#4).
   c. Slide the lock washer (#12) upward over the faucet stud, below the black plastic washer.
   d. Screw on the stud wing nut (#13) below the lock washer.
   e. Hand-tighten the wing nut to secure the faucet.

countertop

countertop

Capacity Monitor Assembly

Connect the Tubing to the Filter Monitor Unit

NOTE: Complete this step only after the DWS tubing has been connected in **section 3.4: Connect the Tubing to the Housing.**

1. Connect the two tube fittings (#15) (MC744) to the Filter Monitor Unit (#14) (FMU) by threading them into the threaded ports, one on each side (tighten securely, but do not over-tighten).
2. The FMU can be mounted either horizontally or vertically, but vertical installation is recommended. NOTE: The FMU will function with water flow in either direction.
3. Fully insert the blue plastic tubing (#5) from the DWS OUTLET into one side of the FMU.
4. Fully insert the blue plastic tubing (#5) from the faucet into the other side of the FMU.

NOTE: When pushing the tubing into the fitting, you will encounter some resistance. This does not mean that the tube is fully inserted. Continue to push firmly until the tubing is inserted as far as possible (roughly 5/8" into the fitting).

Insert blue tubing 5/8"

Capacity Monitor Assembly

Pull to check that the tubing is secure.

Insert tubing and push until you feel resistance -- at this point, the tubing is not fully inserted. Push firmly until the tubing is inserted as far as it will go.

Set up the Filter Monitor Unit

1. Connect the black wire (#8) from the LED Display Plate into the Filter Monitor Unit (#14).
2. Open the top of the FMU and insert two (2) AAA batteries (not included) into the battery compartment, making sure to match the + and – signs. Close the battery compartment.
3. There will be a long audio sound, and the LED will blink green for two seconds, and then blink green five times.
4. After installing the batteries, press the check/reset button to confirm the LED is functioning.
5. Press and hold the check/reset button on the Filter Monitor Unit (FMU) for three (3) seconds. You should hear a long audible sound.
6. The LED on the LED Display Plate will blink green for one (1) second with an audible sound, then blink green and red for one (1) second each, and then blink green five (5) times twice. The remaining capacity and time is now reset to the original capacity.
7. Peel off the paper backing from the hook-and-loop connector strip, and attach one piece to the back of the FMU. Peel off the paper backing from the second hook-and-loop connector strip and attach it to the desired wall location. Attach the FMU to the wall using the two hook-and-loop connector strips.
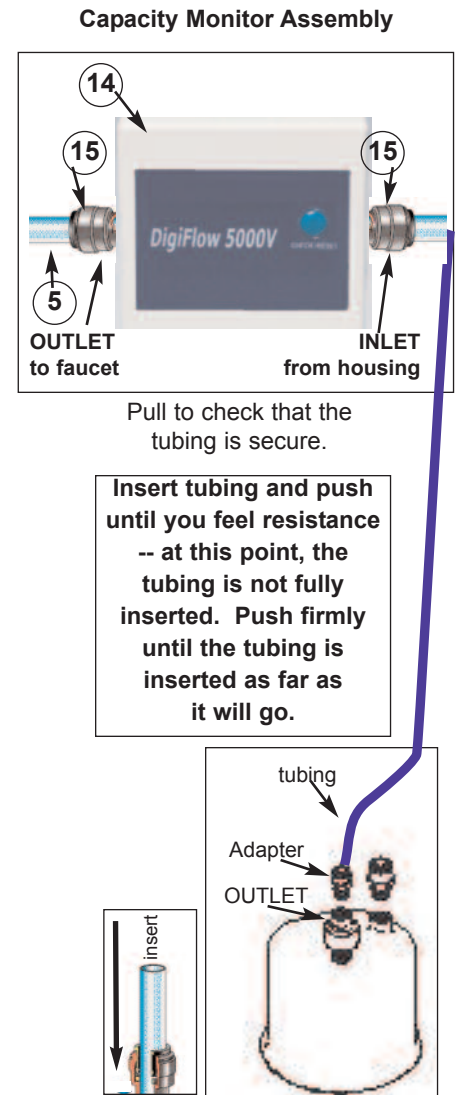
3.2-c: Installing the Capacity Monitor Faucet (continued)

Reading the LED Display Plate

1. When you turn on the faucet, or when the button on the FMU is pressed, the LED on the LED Display Plate blinks five (5) times to indicate the filter capacity status. The color of the LED indicates the filter status:
   a. Green = 30% - 100% filter capacity
   b. Orange = 0% - 30% filter capacity
   c. Red = 0% filter capacity (the FMU will also play a long audible sound to indicate 0% capacity)
2. Multipure recommends ordering a new replacement filter (either online at http://www.multipure.com/store/page6.html or by telephone at 800.622.9206) when the monitor indicates 30% capacity or less.
3. The FMU will memorize the last remaining capacity in the event that the batteries lose power. It will restore the last remaining capacity when new batteries are installed.

NOTE: As with all drinking water treatment devices which reduce certain contaminants by mechanical filtration, the capacity of the filter can vary, and is dependent upon the type and level of contaminants in your water. If the system is used on water with high levels of particulate matter, Multipure recommends the installation and use of an additional pre-filter element.

3.3: Connecting to Your Plumbing

Included with your MP880SB/MP880EL Drinking Water System is one installation kit, which includes all of the fixtures and accessories needed to install your system below the sink. If you determine that your particular plumbing configuration requires fixtures different from those included with your shipment, please contact Multipure's Customer Service office at 800.622.9206, ext. 175.
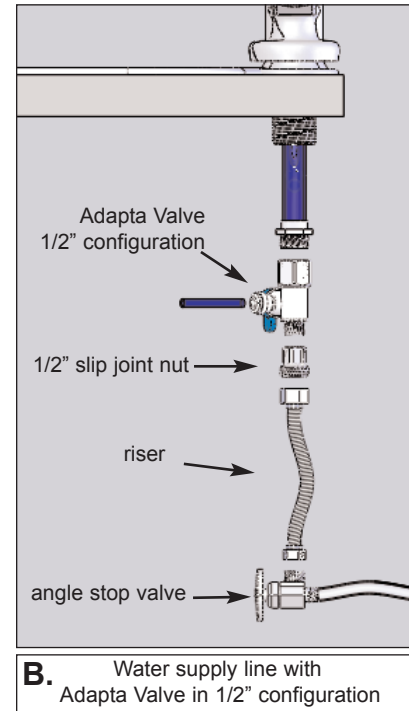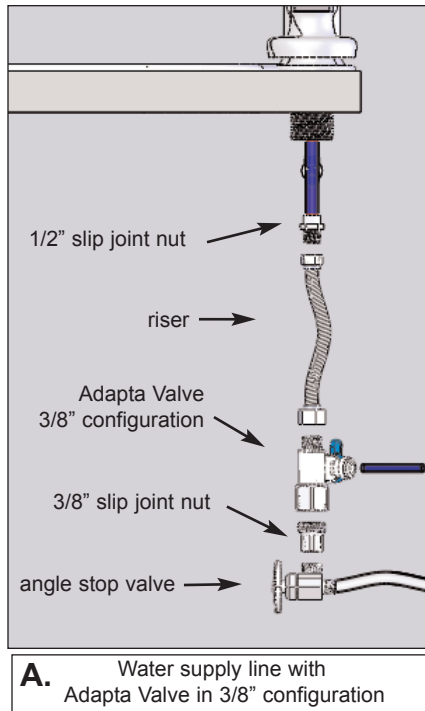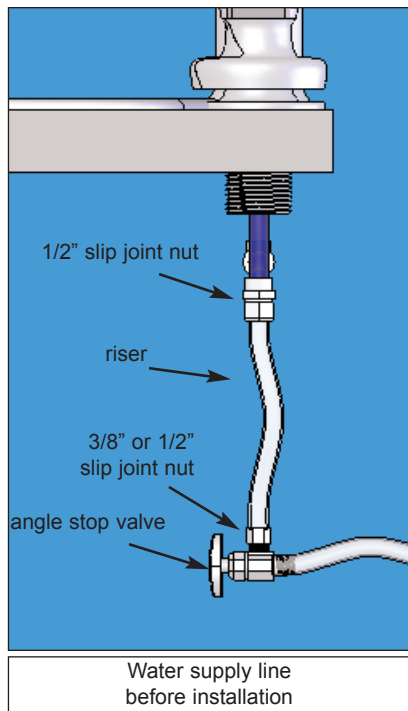
Determine Your Adapta Valve Configuration

If your residence has a cold water supply line with a 3/8" or 1/2" slip joint connection, you may use the Adapta Valve included with your system to connect your DWS to the plumbing. The Adapta Valve assembly (MC922ASBL) includes both the valve and threading adapter.

Adapta Valve

(#14)
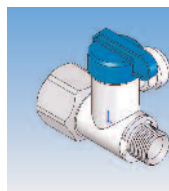
Threading adapter

NOTE: When attaching the Adapta Valve to straight pipe threads, use Teflon tape on the threads. Wrap the tape around the pipe only once.

1/2" slip joint nut

riser

3/8" or 1/2" slip joint nut

angle stop valve

Water supply line before installation

1/2" slip joint nut

riser

Adapta Valve 3/8" configuration

3/8" slip joint nut

angle stop valve

A. Water supply line with Adapta Valve in 3/8" configuration

Adapta Valve 1/2" configuration

1/2" slip joint nut

riser

angle stop valve

B. Water supply line with Adapta Valve in 1/2" configuration

13

Adapta Valve Installation (continued)

1. Using the 3/8" configuration:
   a. The 3/8" configuration is used on a water supply line with a 3/8" slip joint.
   b. The 3/8" configuration is typically installed at the bottom of the riser at the angle stop valve.

2. Using the 1/2" configuration:
   a. The 1/2" configuration can be used at either the top of the riser at the faucet pipe or at the bottom of the riser at the angle stop valve.
   b. Install the 1/2" configuration at the top of the riser on a water supply line that does not have a slip joint nut at the angle stop valve.
   c. Install the 1/2" configuration at the angle stop valve if there is a 1/2" slip joint nut there.

3/8" configuration   **1/2" configuration**

Install the Adapta Valve

NOTE: The Adapta Valve must be installed on the **cold water line only**.

1. Shut off the cold water supply to the faucet by rotating the angle stop valve clockwise until the water flow is off. Place a catch basin or other container below the faucet to catch any residual water in the pipes.
2. Disconnect the cold water riser/supply line at the angle stop valve or cold water faucet pipe. Use an 8" adjustable wrench to rotate the slip joint nut counterclockwise until the riser/supply line and slip joint nut detach from either the angle stop valve or the faucet pipe.
3. Connect the Adapta Valve to the pipe from which you removed the slip joint nut.
   a. Align the Adapta Valve to either the angle stop valve or cold water faucet pipe, making sure that the rubber washer is in place in the Adapta Valve.
   b. Use an 8" adjustable wrench to rotate the connection clockwise until tight. DO NOT OVERTIGHTEN.
4. Connect the cold water riser/supply line with the slip joint nut to the Adapta Valve.
   a. Align the slip joint nut to the Adapta Valve.
   b. Use an 8" adjustable wrench to rotate the slip joint nut clockwise until tight. DO NOT OVERTIGHTEN.
   c. Make sure that the supply line does not block the shutoff valve on the side of the Adapta Valve. If necessary, trim the supply line before reconnecting.
5. Connect the 1/4" clear plastic tubing (included with the system) to the Adapta Valve.
   a. Using wire cutters or a knife, cut (square cut) the tip end off of the clear plastic tubing. Do not use scissors.
   b. Insert the tubing fully into the opening of the shutoff valve on the side of the Adapta Valve; the tubing should typically be inserted 5/8" into the adapter.

Insert clear tubing 5/8"

NOTE: When pushing the tubing into the opening, you will encounter some resistance. This does not mean that the tube is fully inserted. Continue to push firmly until the tubing is inserted as far as possible (roughly 5/8" into the adapter).

Push the tubing into the small hole as far as it will go.   Pull to check secure.
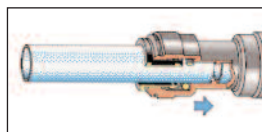
6. Confirm that the Unit Shutoff Valve attached to the Adapta Valve is in the OFF position by rotating the handle clockwise until it stops.
7. Proceed to section **3.4: Connecting the Tubing to the Housing** to connect the clear plastic tubing to the DWS.

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3.4: Connecting the Tubing to the Housing

Attach the Adapters to the Housing

1. Connect the included Inlet adapter (MC720) to the system housing's labeled Inlet port. Rotate the adapter clockwise, first by hand, then using a wrench, to tighten onto the system.
2. Connect the included Outlet adapter (MC720) to the system housing's labeled Outlet port. Rotate the adapter clockwise, first by hand, then using a wrench, to tighten onto the system.
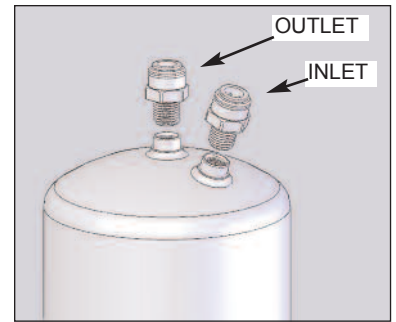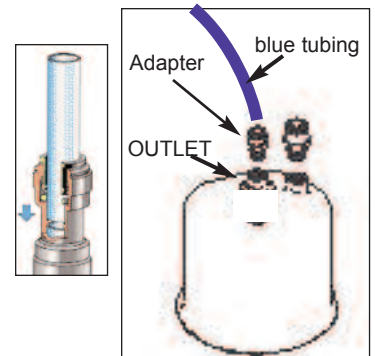
Housing Top

Connect the Tubing to the Outlet Port

1. Using wire cutters or a knife, cut (square cut) the tip end off of the blue plastic tubing (either connected to the faucet or a separate piece included with the Capacity Monitor). Do not use scissors.

2. Fully insert the tubing into the adapter on the OUTLET port of the system housing; the tubing should typically be inserted 5/8" into the adapter.

   NOTE: When pushing the tubing into the adapter, you will encounter some resistance. This does not mean that the tube is fully inserted. Continue to push firmly until the tubing is inserted as far as possible (roughly 5/8" into the adapter).

   Insert blue tubing 5/8"

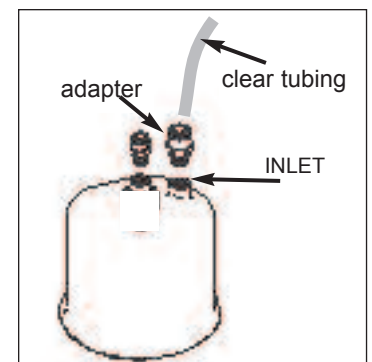3. Pull on the tubing to make sure that it is securely connected.

Insert tubing and push until you feel resistance -- at this point, the tubing is not fully inserted. Push firmly until the tubing is inserted as far as it will go.

Connect the Tubing to the Inlet Port

1. Using wire cutters or a knife, cut (square cut) the tip end off of the clear plastic tubing connected to the Adapta Valve. Do not use scissors. Do not cut more than 1/2" off of the end of the clear plastic tubing.

2. Fully insert the tubing into the adapter on the INLET port of the system housing; the tubing should typically be inserted 5/8" into the adapter.

   NOTE: When pushing the tubing into the adapter, you will encounter some resistance. This does not mean that the tube is fully inserted. Continue to push firmly until the tubing is inserted as far as possible (roughly 5/8" into the adapter).

3. Pull on the tubing to make sure that it is securely connected.

Connecting to Straight Adapter

Insert tubing and push until you feel resistance -- at this point, the tubing is not fully inserted. Push firmly until the tubing is inserted as far as it will go.
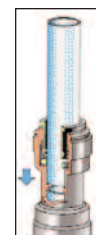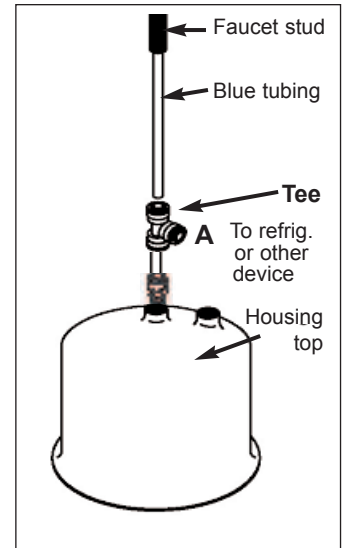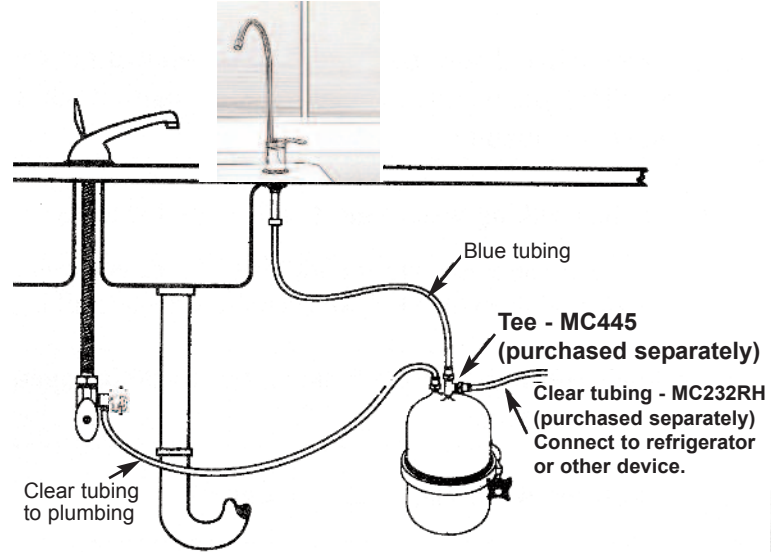
15

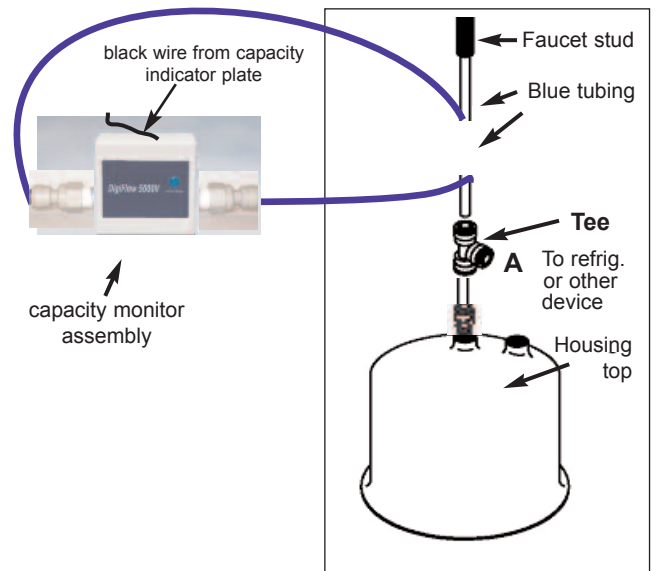## Connecting to an Icemaker, Instant Hot Dispenser, or Other Device

Use the following steps to connect the DWS to an icemaker, instant hot dispenser, or other device in addition to your faucet or capacity monitor faucet. A TEE adapter (MC445) is required.

NOTE: To connect your DWS to the icemaker, instant hot dispenser, other device, you must have access to this other device from your sink.

1. Using wire cutters or a knife, cut (square cut) the blue plastic tubing 6" from where it is connected to the OUTLET port of the DWS housing. Do not use scissors.

2. Fully insert the blue plastic tubing from the DWS OUTLET into the bottom port of the Tee adapter. Push the tubing until you feel resistance, and then continue to push firmly until it is inserted as far as it will go.

3. Fully insert the blue plastic tubing from the faucet (or the tubing from the capacity monitor) into the top port of the Tee. Push the tubing until you feel resistance, and then continue to push firmly until the tubing is inserted as far as it will go.

4. Fully insert a separate 1/4" poly tube (available through Multipure or a plumbing supplier) into the side port of the Tee. Provide sufficient tubing to reach your icemaker, instant hot dispenser, or other device, and connect to that device.

Blue tubing

Tee - MC445
(purchased separately)

Clear tubing - MC232RH
(purchased separately)
Connect to refrigerator
or other device.

Clear tubing
to plumbing

Faucet stud

Blue tubing

Tee

A To refrig.
or other
device

Housing
top

Unit with Stainless Steel Faucet

black wire from capacity
indicator plate

DigiFlow 500IV

capacity monitor
assembly

Faucet stud

Blue tubing

Tee

A To refrig.
or other
device

Housing
top

Unit with Capacity Monitor Faucet

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3.5: Placing the System Under the Sink

The Aquaperform models MP880SB and MP880EL are designed to mount to the cabinet wall beneath the sink. These systems can also sit on the cabinet floor with the use of an optional acrylic base. If you would like to order the Aquaperform acrylic base, please contact Multipure Customer Relations at 800.622.9206, ext. 175.

NOTE: The Aquaperform DWS weighs approximately 7.5 lbs. with a dry filter; the system weighs more when the filter is wet. Before mounting the system on the wall under the sink, please confirm that the wall will support the weight of the system. The mounting bracket (MC129) is included with the system.

Model MP880SB

1. Before installing the below-sink mounting bracket, make sure that enough room exists beneath the sink to remove the DWS from the bracket. You need several inches of space both above and away from the mounting wall
2. Attach the mounting bracket to the wall:
   a. Hold the bracket in place on the wall, making sure that the keyhole side is at the top. Use a pencil or other tool to mark the location for the mounting screws through the keyholes.
   b. Screw in the mounting screws to the wall, making sure that you leave enough space to hang and remove the bracket from the screws. NOTE: DO NOT install screws for the bottom holes of the mounting bracket.
   c. Place the mounting bracket over the screws to make sure that it sits properly – tight enough to hold the DWS stable, but loose enough to remove when necessary.
3. Remove the mounting bracket from the wall screws.
4. Open the two bracket bands:
   a. Use a slotted (flathead) screwdriver to turn the screw on the bracket band's worm clamp counter-clockwise.
   b. Rotate the screw counter-clockwise until the band is fully open.
5. Thread each bracket band through the band slots on the mounting bracket:
   a. Slide the slotted end of one band through both sides of the top pair of band slots.
   b. Slide the slotted end of the other band through both sides of the bottom pair of band slots.
6. Wrap both bracket bands around the DWS housing top, above the locking V-Band.
7. Tighten the bracket bands:
   a. Position the slotted end of the band at the mouth of its worm clamp opening.
   b. Turn the worm clamp screw clockwise to tighten the band around the DWS housing. Tighten until the band is secure.
   c. Repeat steps 7a and 7b for the other bracket band.
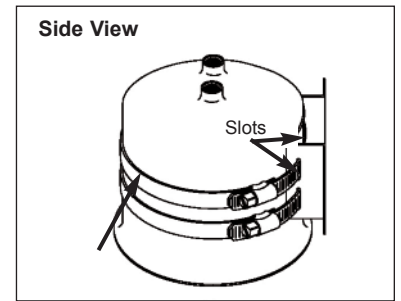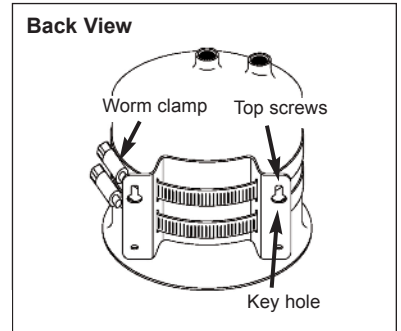
NOTE: Complete step 8 ONLY after all adapters and tubing are connected to the DWS.

8. Attach the DWS and bracket to the wall by hanging the bracket on the two installed wall screws (see Step 2). Position the larger holes of the bracket keyholes over the wall screws, and then slide the bracket down so that the screws rest securely in the smaller holes of the bracket keyholes. Make sure that the DWS and bracket are fastened securely to the wall before releasing your grip.
9. To remove the system for servicing, slide the DWS and bracket up, so that the wall screws are positioned at the larger holes of the bracket keyholes. Pull the DWS and bracket away from the wall.

The MP8800SB, MP880SI and MP8800EL units can also be placed "upside-down" in the acrylic sleeve. A notch has been cut out of the sleeve to accommodate the tubing. In this configuration, it may be necessary to relieve air which builds up in the stainless steel housing every two months.

To relieve the built-up air:
1. Turn on the Multipure filtered water faucet
2. With the faucet in the "on" position, and water flowing through it, pick up the stainless steel housing and turn it "right side-up", so that the ports and tubing are now on top. You'll hear a "whooshing" sound come from the faucet as the trapped air escapes through the open faucet. This should only take a few moments.
3. Once water continues to flow out of the faucet, return the housing back to its "upside down" position and turn off the faucet.

Back View
Worm clamp   Top screws
Key hole

Side View
Slots

3.6: Installing the System for Inline Use

Multipure Inline models are ideal for refrigerators, water coolers, or restaurants where all water to a cold water outlet or faucet is filtered. Model MP880SI includes the housing, filter, bracket, and screws. The inline models are appropriate for an inline installation and can be used with your existing faucet. It is recommended that the inline models be installed by a professional plumber in accordance with established plumbing procedures.

3.7: Preparing and Operating Your Drinking Water System

1. Using a paper towel or cloth, dry off all connections and the DWS housing.
2. Make sure that all connections are tightly secured.
3. Turn the water supply back on; rotate both the Adapta Valve shutoff valve and either the water supply Angle Stop Valve or water shutoff valve counter-clockwise to engage the flow of water through the pipes.
4. Turn the handle on the DWS faucet to start the flow of filtered water.
5. Allow water to flow through the DWS and the faucet for five minutes. This purges any air and loose carbon from the system.
6. Adjust the Angle Stop Valve or water shutoff valve so that the water flow to the drinking water faucet does not exceed the flow rate. NOTE: It takes approximately 20 seconds to fill a quart at 1.0 gallons per minute flow rate.
7. Turn off the DWS faucet and check for leaks.
   a. Check the V-Band to confirm that it is secured evenly around the top and bottom housing halves.
   b. Hand-tighten the black knob on the V-Band until it is as tight as possible.
8. Turn on the DWS faucet and allow water to flow for approximately **30 minutes**. This will flush the filter and charge the carbon.
9. Turn off the DWS faucet.
10. Check all connections to make sure that there are no leaks.
11. Congratulations! Your DWS is now ready for use.

**If you have any questions regarding the installation of your
Multipure Drinking Water System, call:**

**Multipure International
Customer Service Department
7251 Cathedral Rock Drive
Las Vegas, NV 89128
702.360.8880 phone
800.622.9206 toll-free
702.360.8575 fax
email: custsvc@multipure.com
www.multipure.com**

4.   Maintenance

4.1: Regarding Filter Capacity

1. Exact filter capacity varies in proportion to the amount of water used and the level of impurities in the water being processed. For contaminants reduced through physiochemical adsorption, the filter capacity is 600 gallons. For contaminants reduced through mechanical filtration, capacity claims are inapplicable due to broad variations in the quality and quantity of physical matter in the drinking water. Excessive physical matter will cause the DWS to clog, diminishing flow rate but reducing the contaminants from the resultant water stream.

2. For optimum performance and to maintain the lifetime warranty on your system housing, it is essential that the filter be replaced when the first of the following occurs: 1. annually, 2. when the system reaches its rated capacity, 3. when the flow rate diminishes, or 4. when the filter becomes saturated with bad tastes and/or odors.

4.2: Removing the Old Filter

1. Before opening the DWS housing, place a pan or basin beneath the housing.
2. Disengage the water supply to the DWS by turning the Adapta Valve shutoff valve clockwise or by turning the water supply shutoff valve clockwise.
3. Turn on the DWS faucet to relieve the water pressure in the system.
4. If the system is mounted on a bracket, remove the system from the bracket.
    a.   Tilt the top of the system toward the wall.
    b.   Slide the locking V-Band up and into the upper bracket notch.
    c.   Slide the system out of the bracket.
5. With the DWS housing in an upright position, unscrew the black knob on the Locking V-Band by turning it counter-clockwise.
6. With the black knob removed, spread the Locking V-Band apart and let it drop off the bottom of the DWS. Carefully set it aside.
7. Lift the top half of the DWS off of the bottom half. Make sure that the black O-ring remains in place on the bottom half of the housing.
8. Remove the old filter cartridge from the top half of the housing by rotating it counter-clockwise (if facing the inside of the top half of the housing).
9. Dispose of the used filter in your waste container.
10. Rinse out the inside of the system housing, hand washing if necessary.
11. Inspect the black rubber cushion on the inside of the top half of the housing, making sure that it is not cracked or worn; Multipure recommends that the cushion be replaced every two to three years.

keyhole
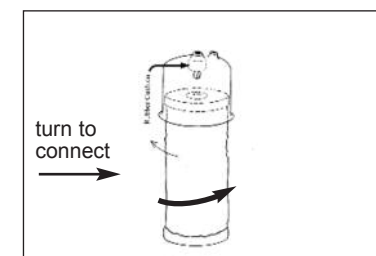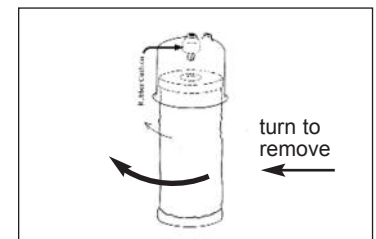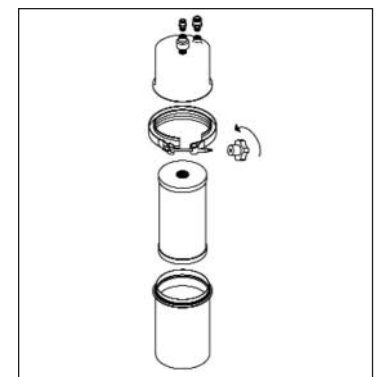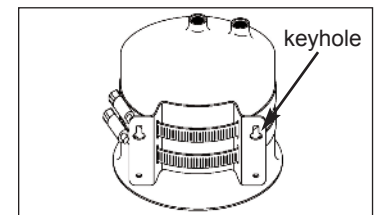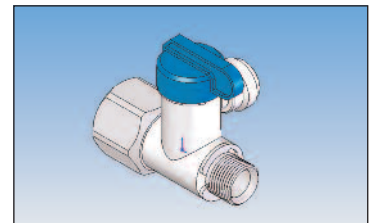
4.3: Installing the New Filter

1. If you have not done so already, remove the plastic wrapper and instruction wrap from around the new filter.
2. Align the threaded hole of the new filter cartridge onto the inside thread of the top half of the DWS. Rotate the cartridge clockwise to tighten (if facing the inside of the top half of the housing). Make sure that the cartridge is threaded properly and straight. DO NOT OVERTIGHTEN.
3. Reconnect the top half of the housing (with attached filter cartridge) with the bottom half. Replace the Locking V-Band, making sure the screw is in place to connect the band together.
4. Screw the black knob onto the Locking V-Band, turning it clockwise to tighten.
5. Make sure that the V-Band is tightly secured evenly around the housing top and bottom.
6. To resume normal use of the DWS, proceed to **3.7: Preparing and Operating Your Drinking Water System**.

turn to remove

turn to connect

4.4: Resetting the Capacity Monitor or Changing the Batteries

Resetting the Capacity Monitor
After changing the drinking water system filter, the capacity monitor must be reset to its original capacity.
1. Press and hold the check/reset button on the Filter Monitor Unit (FMU) for three (3) seconds. You should hear a long audible sound.
2. The LED on the LED Display Plate will blink green for one (1) second with an audible sound, then blink green and red for one (1) second each, and then blink green five (5) times twice. The remaining capacity and time is now reset to the original capacity.

Changing the Batteries
1. Open the top of the Filter Monitor Unit and remove and discard the used batteries.
2. Insert two (2) fresh AAA batteries into the battery compartment, making sure to match the + and – signs. Close the battery compartment.
3. There will be a long audio sound, and the LED will blink green for two seconds, and then blink green five times.
4. After installing the batteries, press the check/reset button to confirm the LED is functioning.

4.5: Flushing / Disinfecting the System

Multipure recommends that you not allow water to sit in the system for extended periods of time without use. If a unit is left unused for more than 10 days, it may need to be flushed / disinfected before resuming normal use.

1. Remove the filter by following the directions in *4.2: Removing the Old Filter.*
2. Add 5 to 7 drops of bleach to the bottom half of the system.
3. Reconnect the top half of the housing without a replacement filter installed.
4. Turn on the water supply and allow the system to fill up with the water/bleach solution.
   a. Countertop Systems:
      i. Turn on the faucet, and press the right button on the diverter valve to select the filtered water spout.
      ii. Once water begins to flow, press the left button to stop the filtered water spout.
      iii. Turn off the faucet, and let the system soak for at least 30 minutes.
   b. Below-sink Systems:
      i. Remove the faucet spout and place it in a container with one quart of water and bleach (5 drops of bleach per one quart of water).
      ii. Allow the system and the faucet to soak for at least 30 minutes.
      iii. Clean the inside of the faucet spout with pipe cleaners. You may also use a mild detergent, such as Soft Scrub®.
5. Flush and rinse the system.
   a. Countertop Systems:
      i. With the faucet off, press the right button on the diverter valve to select the filtered water spout.
      ii. Let the water and bleach flush out of the system until the water flow stops.
      iii. Open, clean, and rinse out the inside of the system housing.
      iv. Follow the directions in **1.1: Installing the Filter Cartridge (Universal)**.
      v. Follow the directions in **2.2: Preparing and Operating Your Drinking Water System**.
   b. Below-sink Systems:
      i. Disassemble the system housing and pour out the water/bleach solution. Clean and rinse out the inside of the system housing.
      ii.   Follow the directions in **4.3: Installing the New Filter**.

5.   Additional Information

5.1: Warranty

Multipure 90-Day Guarantee: Multipure is confident in the performance of its Drinking Water Systems (DWS). If you should find this Drinking Water System unsatisfactory, let us know within 90 days of purchase for a prompt exchange or refund.

Multipure Warranty: Multipure warrants to the original retail customer its DWS and components to be free of defects in material and workmanship for use under normal care, and will repair or replace any system at no charge (excluding transportation to Multipure Corporate Headquarters) to the customer during the warranty period. The DWS housing is warranted for a lifetime (provided the filter has been changed at least once per year); all exterior hoses and attachments to the DWS are also warranted for defects in material and workmanship for one (1) year.

Multipure Solid Carbon Block Filters are warranted for defects in material and workmanship for use under normal care. The capacity of the filter cartridge depends upon the amount of impurities in the water to be processed.

Except as otherwise expressly provided above, Multipure makes no warranties, express or implied, arising by law or otherwise, including without limitation the implied warranties of merchantability and fitness for a particular purpose, to any person. This limited warranted may not be altered, varied, or extended except by a written instrument executed by Multipure. The remedy of repair or replacement as provided under this limited warranty is exclusive. In no event shall Multipure be liable for any consequential or incidental damages to any person whether occasioned by negligence of the manufacturer, including without limitation damages of loss of use, cost of substitution, property damage, or other monetary loss.

Warranty is valid only if the DWS is operated within conditions listed herein. The warranty begins from the date of purchase.

5.2: Performance Certifications

Multipure Drinking Water Systems
Product Performance Tested and Certified

Multipure Drinking Water Systems have been tested and certified by NSF International to comply with NSF/ANSI Standards 42 and 53 for the reduction of specific contaminants being considered as established or potential health hazards.

Standard 42, Aesthetic Effects
System tested and certified by NSF International against NSF/ANSI Standard 42 for the reduction of:
  Chloramine
  Chlorine taste and odor
  Nominal Particulate reduction, class I

Standard 53, Health Effects
System tested and certified by NSF International against NSF/ANSI Standard 53 for the reduction of:
  Arsenic V   Asbestos
  Chlordane   Cyst
  Lead   Mercury
  MTBE   PCB
  Toxaphene   Turbidity
  VOC (listed below)

Volatile Organic Chemicals (VOC) includes:

Disinfection By-Products
chloropicrin
haloacetonitriles (HAN):
  bromochloroacetonitrile
  dibromoacetonitrile
  dichloroacetonitrile
  trichloroacetonitrile
haloketones (HK):
  1,1-dichloro-2-Propanone
  1,1-trichloro-2-Propanone
trihalomethanes (THMs; TTHMs):
  bromodichloromethane
  bromoform
  chloroform
  dibromochloromethane
tribromoacetic acid

Chemicals
benzene
carbon tetrachloride
chlorobenzene
1,2-dichloroethane
1,1-dichloroethylene
cis-1,2-dichloroethylene
1,2-dichloropropane
cis-1,3-dichloropropylene
ethylbenzene
hexachlorobutadiene
hexachlorocyclopentadiene
simazine
styrene
1,1,2,2-tetrachloroethane
tetrachloroethylene
toluene
trans-1,2-dichloroethylene
1,2,4-trichlorobenzene
1,1,1-trichloroethane
1,1,2-trichloroethane
trichloroethylene
xylenes (total)

Herbicides
alachlor
atrazine
2,4-D
dinoseb
pentachlorophenol
2,4,5-TP (silvex)

Pesticides
carbofuran
dibromochloropropane (DBCP)
o-dichlorobenzene
p-dichlorobenzene
endrin
ethylene dibromide (EDB)
heptachlor
heptachlor epoxide
lindane
methoxychlor

Claims of capacity are not applicable to contaminants reduced by mechanical filtration because of broad variations in the quality and quantity of physical matter in your drinking water.

Filter Model CB11As

Performance Data Sheet

Multipure Drinking Water Systems have been tested and certified under NSF/ANSI Standard 53 as shown 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 53, Health Effects.

For Model Nos. MP880SC, MP880SB, MP880SI, MP880EL

Substance	Percent Reduction**	Influent challenge concentration	Maximum permissible product water concentration
ALACHLOR*	>98%	0.05	0.001
ARSENIC (pentavalent As (V); As (+5); arsenate @ 6.5 pH	>99.9%	0.050 +/- 10%	0.010
ARSENIC (pentavalent As (V); As (+5); arsenate @ 8.5 pH	>95.8%	0.050 +/- 10%	0.010
ASBESTOS	>99.9%	10^7 to 10^8 fibers/L; fibers greater than 10 micrometers in length	99% reduction requirement
ATRAZINE*	>97%	0.1	0.003
BENZENE*	>99%	0.081	0.001
BROMODICHLOROMETHANE (TTHM)*	>99.8%	0.3	0.015
BROMOFORM (TTHM)*	>99.8%	0.3	0.015
CARBOFURAN (Furadan)*	>99%	0.19	0.001
CARBON TETRACHLORIDE*	98%	0.078	0.0018
CHLORDANE	>99.5%	0.04 +/-10%	0.002
CHLOROBENZENE (Monochlorobenzene)*	>99%	0.077	0.001
CHLOROPICRIN*	99%	0.015	0.0002
CHLOROFORM (TTHM)* (surrogate chemical)	>99.8%	0.45 +/- 20%	0.080
Cryptosporidium (CYST)	>99.99%	minimum 50,000/L	99.95%
CYST (Giardia; Cryptosporidium; Entamoeba; Toxoplasma)	>99.99%	minimum 50,000/L	99.95%
2, 4-D*	98%	0.11	0.00017
DBCP (see Dibromochloropropane)*	>99%	0.052	0.00002
1,2-DCA (see 1,2-DICHLOROETHANE)*	95%	0.088	0.0048
1,1-DCE (see 1,1-DICHLOROETHYLENE)*	>99%	0.083	0.001
DIBROMOCHLOROMETHANE (TTHM; Chlorodibromomethane)*	>99.8%	0.300	0.015
DIBROMOCHLOROPROPANE (DBCP)*	>99%	0.052	0.00002
o-DICHLOROBENZENE (1,2 Dichlorobenzene)*	>99%	0.08	0.001
p-DICHLOROBENZENE (para-Dichlorobenzene)*	>98%	0.04	0.001
1,2-DICHLOROETHANE (1,2-DCA)*	95%	0.088	0.0048
1,1-DICHLOROETHYLENE (1,1-DCE)*	>99%	0.083	0.001
CIS-1,2-DICHLOROETHYLENE*	>99%	0.17	0.0005
TRANS-1,2- DICHLOROETHYLENE*	>99%	0.086	0.001
1,2-DICHLOROPROPANE (Propylene Dichloride)*	>99%	0.08	0.001
CIS-1,3- DICHLOROPROPYLENE*	>99%	0.079	0.001
DINOSEB*	99%	0.17	0.0002
EDB (see ETHYLENE DIBROMIDE)*	>99%	0.044	0.00002
ENDRIN*	99%	0.053	0.00059
Entamoeba (see CYSTS)	99.99%	minimum 50,000/L	99.95%
ETHYLBENZENE*	>99%	0.088	0.001
ETHYLENE DIBROMIDE (EDB)*	>99%	0.044	0.00002

**Percent reduction reflects actual performance of Multipure product as specifically tested (at 200% of capacity, i.e. 1500 gallons). Percent reduction shown for VOCs* reflects the allowable claims for Volatile Organic Chemicals/Compounds as per Tables. Chloroform was used as a surrogate for VOC reduction claims, the Multipure Systems' actual reduction rate of Chloroform was >99.8% as tested (at 200% of capacity).

Substance	Percent Reduction**	Influent challenge concentration	Maximum permissible product water concentration
Furadan (see CARBOFURAN)*	>99%	0.19	0.001
Giardia Lamblia (see CYST)	>99.99%	minimum 50,000/L	99.95%
HALOACETONITRILES (HAN)*			
BROMOCHLOROACETONITRILE	98%	0.022	0.0005
DIBROMOACETONITRILE	98%	0.024	0.0006
DICHLOROACETONITRILE	98%	0.0096	0.0002
TRICHLOROACETONITRILE	98%	0.015	0.0003
HALOKETONES (HK):*			
1,1-DICHLORO-2-PROPANONE	99%	0.0072	0.0001
1,1,1-TRICHLORO-2-PROPANONE	96%	0.0082	0.0003
HEPTACHLOR*	>99%	0.08	0.0004
HEPTACHLOR EPOXIDE*	98%	0.0107	0.0002
HEXACHLOROBUTADIENE (Perchlorobutadiene)*	>98%	0.044	0.001
HEXACHLOROCYCLOPENTADIENE*	>99%	0.060	0.000002
LEAD (pH 6.5)	>99.99%	0.15 +/- 10%	0.010
LEAD (pH 8.5)	>99.99%	0.15 +/- 10%	0.010
LINDANE*	>99%	0.055	0.00001
MERCURY (pH 6.5)	>99.99%	0.006 +/- 10%	0.002
MERCURY (pH 8.5)	>99.99%	0.006 +/- 10%	0.002
METHOXYCHLOR*	>99%	0.050	0.0001
Methylbenzene (see TOLUENE)*	>99%	0.078	0.001
Monochlorobenzene (see CHLOROBENZENE)*	>99%	0.077	0.001
MTBE (methyl tert-butyl ether)	>96.6%	0.015 +/- 20%	0.005
POLYCHLORINATED BIPHENYLS (PCBs , Aroclor 1260)	>97%	0.01 +/- 10%	0.0005
PCE (see TETRACHLOROETHYLENE)*	>99%	0.081	0.001
PENTACHLOROPHENOL*	>99%	0.096	0.001
Perchlorobutadiene (see HEXACHLOROBUTADIENE)*	>98%	0.044	0.001
Propylene Dichloride (see 1,2 -DICHLOROPROPANE)*	>99%	0.080	0.001
SIMAZINE*	>97%	0.120	0.004
Silvex (see 2,4,5-TP)*	99%	0.270	0.0016
STYRENE (Vinylbenzene)*	>99%	0.15	0.0005
1,1,1-TCA (see 1,1,1 - TRICHLOROETHANE)*	95%	0.084	0.0046
TCE (see TRICHLOROETHYLENE)*	>99%	0.180	0.0010
1,1,2,2- TETRACHLOROETHANE*	>99%	0.081	0.001
TETRACHLOROETHYLENE*	>99%	0.081	0.001
TOLUENE (Methylbenzene)*	>99%	0.078	0.001
TOXAPHENE	>92.9%	0.015 +/- 10%	0.003
Toxoplasma (see CYSTS)	99.99%	minimum 50,000/L	99.95%
2,4,5-TP (Silvex)*	99%	0.270	0.0016
TRIBROMOACETIC ACID*	98%	0.042	0.001
1,2,4 TRICHLOROBENZENE (Unsymtrichlorobenzene)*	>99%	0.160	0.0005
1,1,1-TRICHLOROETHANE (1,1,1-TCA)*	95%	0.084	0.0046
1,1,2-TRICHLOROETHANE*	>99%	0.150	0.0005
TRICHLOROETHYLENE (TCE)*	>99%	0.180	0.0010
TRIHALOMETHANES (TTHM) (Chloroform; Bromoform; Bromodichloromethane; Dibromochloromethane)	>99.8%	0.45 +/- 20%	0.080
TURBIDITY	>99%	11 +/- NTU	0.5 NTU
Unsym-Trichlorobenzene (see 1,2,4-TRICHLOROBENZENE)*	>99%	0.160	0.0005
Vinylbenzene (see STYRENE)*	>99%	0.150	0.0005
XYLENES (TOTAL)*	>99%	0.070	0.001

NSF/ANSI 42 - Aesthetic Effects

The System has been tested according to NSF/ANSI Standard 42 for the reduction of the following substances. 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.

Substance	Percent Reduction**	Influent challenge concentration (mg/L unless specified)	Maximum permissible product water concentration (mg/L unless specified)
CHLORAMINE as Aesthetic Effect (As Monochloramine)	>98.3%	3.0 mg/L +/- 10%	0.5 mg/L
CHLORINE as Aesthetic Effect	99%	2.0 Mg/L +/- 10%	> or = 75%
PARTICULATE, (Nominal Particulate Reduction, Class I, Particles 0.5 TO <1 UM	Class I > 99%	At Least 10,000 particles/mL	> or = 85%

Note: This addresses the U.S. Environmental Protection Agency (EPA) Primary and Secondary Drinking Water Regulations in effect at its time of publication, as they relate to Multipure's performance in conformance to the industry performance criteria. These regulations are continually being updated at the Federal level. Accordingly, this list of MCLs will be reviewed and amended when appropriate. Please visit our website for list of product certifications.

NOTES:

1. Multipure Drinking Water Systems have been certified, as indicated, by NSF International for compliance to NSF/ANSI Standard Nos. 42 & 53.
2. The Multipure Drinking Water Systems have been certified by the State of California Department of Public Health for the reduction of specific contaminants listed herein.
3. Chloroform was used as a surrogate for claims of reduction of VOCs. Multipure Systems tested at >99.8% actual reduction of Chloroform. Percent reduction shown herein reflects the allowable claims for VOCs as per tables in the Standard.
4. **Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.**
5. Filter life will vary in proportion to the amount of water used and the level of impurities in the water being processed. For optimum performance, it is essential that the filter be replaced on a regularly scheduled basis as follows: (a) annually; (b) when the unit's rated capacity has been reached; (c) the flow rate diminishes; or (d) the filter becomes saturated with bad tastes and odors.
6. Multipure Drinking Water System Housings are warranted for a lifetime (provided that filter has been changed at least once per year). All exterior hoses and attachments to the System are warranted for one year. Please see the Owner's Manual for complete product guarantee and warranty information.
7. Please see the Owner's Manual for installation instructions and operating procedures.
8. In compliance with New York law, it is recommended that before purchasing a water treatment system, NY residents have their water supply tested to determine their actual water treatment needs. Please compare the capabilities of the Multipure unit with your actual water treatment needs.
9. While testing was performed under standard laboratory conditions, actual performance may vary.
10. The list of substances which the treatment device reduces does not necessarily mean that these substances are present in your tap water.

Facts About Arsenic (in compliance with NSF Standard 53)

Arsenic (abbreviated As) is a naturally occurring contaminant found in many ground waters. Arsenic in water has no color, taste, or odor, and must be measured by lab testing. Public water utilities must have their water tested for arsenic, and their results can be obtained from your local water utility. If you have your own well, the water can be tested; your local health department or state environmental health agency can provide a list of certified testing labs. Information about arsenic in water can be found on the Internet at the U.S. Environmental Protection Agency website, at http://www.epa.gove/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.

Specially formulated Carbon Block 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 Multipure Aquaperform (MP880) Models are designed to remove only pentavalent arsenic. The Aquaperform will not convert trivalent arsenic to pentavalent arsenic. The system may remove some trivalent arsenic, however, it has not been evaluated for its ability to remove trivalent arsenic. The system was tested in a laboratory to remove pentavalent arsenic. Under lab conditions, as defined in ANSI/NSF Standard 53, the system reduced 0.050 mg/L (ppm) pentavalent arsenic to 0.010 mg/L (ppm) (the U.S. EPA 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 Carbon Block filter component of the Aquaperform system must be replaced as indicated in this Owner's Manual to ensure the system will continue to remove arsenic and other contaminants.

State of California
Department of Health Services

Water Treatment Device
Certificate Number

03 - 1569

Date Issued: May 22, 2003

Trademark/Model Designation	Replacement Elements	Capacity
Multi-Pure MP880SB	CB11As	600 gal
Multi-Pure MP880SC	CB11As	600 gal
Multi-Pure MP880SI	CB11As	600 gal
Multi-Pure MP880EL	CB11As	960 gal

Manufacturer: Multi-Pure Drinking Water Systems

The water treatment device(s) listed on this certificate have met the testing requirements pursuant to Section 116830 of the Health and Safety Code for the following health related contaminants:

Microbiological Contaminants and Turbidity
Cysts
Turbidity

Inorganic/Radiological Contaminants
Arsenic V (50 ppb)
Asbestos
Lead
Mercury

Organic Contaminants
Chlordane
MTBE
PCB
Toxaphene
VOCs

Alachlor	Atrazine	Benzene
Bromodichloromethane[1]	Bromoform[1]	Carbofuran
Carbon Tetrachloride	Chlorobenzene	Chloroform[1]
2,4-D	DBCP	Dibromodichloromethane[1]
o-Dichlorobenzene	p-Dichlorobenzene	1,1-Dichloroethane
1,2-Dichloroethane	trans-1,2-Dichloroethylene	1,1-Dichloroethylene
cis-1,2-Dichloroethylene	1,2-Dichloropropane	cis-1,3-Dichloropropylene
Dinoseb	EDB	Endrin
Ethylbenzene	Heptachlor	Heptachlor Epoxide
Hexachlorocyclopentadiene	Hexachlorobutadiene	Lindane
Methoxychlor	Pentachlorophenol	Simazine
Styrene	2,4,5-TP (Silvex)	Tetrachloroethylene
1,1,2,2-Tetrachloroethane	Toluene	1,2,4-Trichlorobenzene
1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene
m-Xylene	o-Xylene	p-Xylene

[1]Trihalomethanes

Rated Service Flow: 1.0 gpm

Do not use where water is microbiologically unsafe or with water of unknown quality, except that systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

Issue	Solution
Odor – rotten eggs, no discoloration on the filter	A rotten egg odor is a sign that H_2S (hydrogen sulfide) gas is present in your water source. If hydrogen sulfide gas is present in your water source, it is recommended that you rotate DWS usage between 2 filter cartridges. When the DWS emits the rotten egg smell, remove the filter and allow it to dry upside down to allow the gas to dissipate (the filter can be reused once dry). Use the second filter in the unit while the first filter is drying.
Odor – rotten eggs, with discoloration on the filter	A rotten egg odor is a sign that H_2S (hydrogen sulfide) is present in your water source. Filter discoloration can determine the source: • orange/brownish colors – iron • blackish colors – manganese • slimy/blotchy colors – decaying organisms When hydrogen sulfide comes from a source that discolors the filter cartridge and creates a strong rotten egg odor, the only recommended solution is to change the filter cartridge.
Color – milky color in the water	Milky color in the water is typically caused by air bubbles in the water. Higher than normal water pressure through the DWS can create these small air bubbles, but they do not affect system performance. Air in the water may also be the result of conditions in your municipal water supply. For countertop systems, turn on the water and engage the diverter valve while slightly reducing the water flow. Less water pressure through the system can prevent air bubbles from forming.
Color – black color in the water	Black color in the water is typically caused by residual carbon dust from the filter. Allow water to run through the DWS for approximately 30 minutes to flush the filter. Residual carbon dust may initially color the water black.
Flow rate – the water flow rate is slow	The filter is designed to restrict its flow rate when clogged with particulates or other solid contaminants. When the water flow rate slows to the point of inconvenience, it is time to replace the filter cartridge. If other water sources are on while using the DWS, turn them off to check if they are affecting the flow rate.
Taste/Odor – miscellaneous	The carbon block filter may have become saturated with the tastes and odors treated in your drinking water. To resolve this, change the filter.
Bypass lever – sticking (hard to move)	Minerals in the water can build up on the diverter valve, causing the bypass lever to stick and preventing the buttons from being pressed easily. A sticking bypass lever can be solved by lubricating it or by dissolving the mineral deposits. Lubrication – requires vegetable oil; because lubrication does not dissolve the mineral deposits, it may need to be performed periodically. 1. Unscrew the diverter valve and remove from the faucet. 2. Pour a small amount of vegetable oil in the inlet hole. 3. Push the left and right buttons on the diverter valve several times to lubricate it thoroughly. 4. Reconnect the diverter valve to the faucet. Dissolving – requires vinegar; may cause discoloration to the metal. 1. Unscrew the diverter valve and remove from the faucet. 2. Soak the diverter valve in a bowl of vinegar for 10 minutes. 3. Rinse the diverter valve and reconnect to the faucet.
Bypass lever – stuck (cannot be pressed)	The bypass lever can occasionally become stuck due to the presence of air in the tubing. This can prevent the buttons from being pressed. 1. Unscrew the diverter valve and remove from the faucet. 2. Press the left and right buttons to test it. If they press in easily, then removing the diverter valve freed the air in the tubing. 3. Reconnect the diverter valve to the faucet.

5.6: Frequently Asked Questions

Question	Answer
Will low pH or acidic water affect the filter?	No. Mineral components can determine the pH of water, and minerals dissolved in solution in the water pass through the system unfiltered. • pH 7 = neutral • pH > 7 = alkaline • pH < 7 = acidic
Does deionized water or soft water have an effect on Multipure water?	No. Because Multipure filters do not treat the natural minerals dissolved in water, the hardness or softness of water has no effect on the resultant filtered Multipure water.
Can the Multipure system be connected to an icemaker?	The Aquaperform countertop cannot be connected to an icemaker, although Multipure below sink Drinking Water Systems (Aquaversa, Aquaperform) can be connected to the sink, refrigerator, water dispenser, or icemaker.
Can the Multipure system be used during an emergency or when the water is turned off?	Yes. During an emergency or when the source water is off, you can hand pump or siphon water through the Multipure system. CAUTION: The Multipure system is not intended for use where the water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit. To disinfect questionable source water, add 1/4 tsp. of household bleach per gallon of source water; the Multipure system will remove this solution from the water during the filtering process. Hand pump kits and emergency kits are available from Multipure.
What causes white particles to appear in Multipure water when it is frozen or boiled?	Because the Aquaperform does not reduce any natural minerals present in water, these minerals may solidify when the water is frozen and appear as white flakes or specks when the water is melted or boiled. Many natural minerals in water are beneficial to your health, and their existence in drinking water (in normal quantities) is not cause for alarm. Minerals can be removed by Reverse Osmosis technology, which is available through the Multipure AquaRO Drinking Water System.
Why does the Multipure system reduce Volatile Organic Chemicals, but not natural minerals?	Minerals are dissolved in solution and do not have an actual physical size; thus, the minerals pass through the system unfiltered.
Should sediment be removed with a standard filter first?	In areas with excessive sedimentation, pre-filtration can help extend the operational efficiency of the Multipure filter; however, in most areas it is unnecessary. Multipure Drinking Water Systems utilize a double-filter mechanic. The outer material is a pre-filter that protects the solid carbon block from prematurely clogging with large sediment.
Why is the compressed solid carbon block filter more efficient than (loose) granular activated carbon filters?	Multipure's densely compacted solid carbon block filters force water through microscopic pores of carbon – much smaller than those of granular activated carbon – thus more effectively reducing particulate matter and contaminants that affect the taste and odor of the water.
What is the difference between a "water softener" and a Multipure Drinking Water System?	Water softeners are not designed to treat drinking water for contaminants; instead, they are designed to adjust the hardness (mineral content) of the water. Soft water is often desirable for bathing and laundering purposes, and may extend the life of hot water heaters and boilers. However, soft water is not recommended for use on plants or lawns. Multipure recommends that you bypass a water softener when installing your Multipure Drinking Water System.
Can the Multipure Drinking Water System be used with untreated water?	Questionable water sources should be disinfected prior to use. To disinfect questionable source water, add 1/4 tsp of household bleach per gallon of source water; the Multipure system will remove this solution from the water during the filtering process. Multipure systems are designed to be used with municipally treated water; they are not intended to be used where the water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

Be sure to replace your filter at least once a year or sooner, if needed.

Date of Installation:_____

Unit Model Number:_____

Filter Type:_____

Dates of Filter Change
_____
_____
_____
_____
_____
_____
_____

To order a Replacement Filter

Call 800.622.9208

or

www.multipure.com/rf.htm

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