



Culligan® Advanced Platinum Plus Series Automatic Water Conditioner Owners Guide





### Thank You

# And Welcome To Your New World Of Better Living With Culligan Water.

The Culligan Advanced Platinum Plus Series Water Softeners with Soft-Minder<sup>®</sup> Meter and Aqua-Sensor<sup>®</sup> sensing device are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium), barium and radium 226/228 as verified and substantiated by test data.



For installations in Massachusetts, Massachusetts Plumbing Code 248 CMR shall be adhered to. Consult your licensed plumber for installation of this system. This system and its installation must comply with state and local regulations. The use of saddle valves is not permitted.

If this is your first experience having soft, conditioned water in your home, you'll be amazed at the marvelous difference it makes. We promise that you'll never want to be without it again.

Congratulations, too, on selecting one of the "first family" of water conditioners in the prestigious Culligan Advanced Platinum Series. With Culligan's many years of knowledge and experience in water treatment, you can be confident that the model you selected has been designed and engineered to provide years of service with a minimum of care and attention.

Some localities have corrosive water. A water softener cannot correct this problem and so its printed warranty disclaims liability for corrosion of plumbing lines, fixtures or appliances. If you suspect corrosion, your Culligan Dealer has equipment to control the problem.

**Sodium Information:** Water softeners using sodium chloride for regeneration add sodium to the water. Persons who are on sodium restricted diets should consider the added sodium as part of their overall sodium intake.

Warning! This device complies with part 15 of the FCC rules subject to the two following conditions: 1) This device may not cause harmful interference. 2) This device must accept all interference recieved including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



### **Attention Culligan Customer:**

The installation, service and maintenance of this equipment should be rendered by a qualified and trained service technician. Your local independently operated Culligan dealer employs trained service and maintenance personnel who are experienced in the installation, function and repair of Culligan equipment. This publication is written specifically for these individuals and is intended for their use.

We encourage Culligan users to learn about Culligan products, but we believe that product knowledge is best obtained by consulting with your Culligan dealer. Untrained individuals who use this manual assume the risk of any resulting property damage or personal injury.

This equipment complies with Part 15 of the FCC rules. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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Performance
<b>Specifications</b>

Control Valve	10" Model 1 1/4" 5-cycle Reinforced Thermoplastic	12" Model 1 1/4" 5-cycle Reinforced Thermoplastic	14" Model 1 1/4" 5-cycle Reinforced Thermoplastic	16" Model 1 1/4" 5-cycle Reinforced Thermoplastic
Overall Conditioner Height	62 in	60 in	73 in	73 in
Media Tank Design	Quadra-Hull®	Quadra-Hull®	Quadra-Hull®	Quadra-Hull®
Media Tank Dimensions (Dia x Ht)	10 x 54 in	12 x 52 in	14 x 65 in	16 x 65 in
Salt Storage Tank Dimensions (Dia x Ht)	18 x 43 in	18 x 43 in	24 x 40 in	24 x 40 in
Exchange Media, Type and Quantity	Cullex® Media, 1.5 ft³	Cullex <sup>®</sup> Media, 2.0 ft <sup>3</sup>	Cullex® Media, 3.0 ft³	Cullex® Media, 4.0 ft³
Underbedding, Type and Quantity	Cullsan® Underbedding, 15 lb	Cullsan® Underbedding, 20 lb	Cullsan® Underbedding, 25 lb	Cullsan® Underbedding, 30 lb
Exchange Capacity @ Salt Dosage Per Recharge	28,210 gr @ 6.0 lb 38,260 gr @ 12.0 lb 45,338 gr @ 18.0 lb	31,952 gr @ 7.0 lb 53,438 gr @ 16.0 lb 62,941 gr @ 24.0 lb	56,420 gr @ 12.0 lb 76,520 gr @ 24.0 lb 90,676 gr @ 36.0 lb	63,904 gr @ 14.0 lb 106,876 gr @ 32.0 lb 125,885 gr @ 48.0 lb
Efficiency rated dosage <sup>1</sup>	4,702 gr/lb @ 6 lb salt dosage	4,565 gr/lb @ 7 lb salt dosage	4,702 gr/lb @ 12 lb salt dosage	4,565 gr/lb @ 14 lb salt dosage
Freeboard to Media <sup>2</sup>	14.5 in	16 in	25 in	25 in
Freeboard to Underbedding <sup>3</sup>	47.5 in	46 in	59 in	59 in
Salt Storage Capacity	375 lb	375 lb	600 lb	600 lb
Rated Service Flow @ Pressure Drop	14.9 gpm @ 15 psi	19.5 gpm @ 15 psi	20.5 gpm @ 15 psi	22.9 gpm @ 15 psi
Total Hardness, Maximum	99 gpg	99 gpg	99 gpg	99 gpg
Total Iron, Maximum	5 ppm	5 ppm	5 ppm	5 ppm
Hardness to Iron Ratio, Minimum	8 gpg to 1 ppm	8 gpg to 1 ppm	8 gpg to 1 ppm	8 gpg to 1 ppm
Operating Pressure	20-125 psi	20-125 psi	20-125 psi	20-125 psi
Operating Pressure (Canada)	20-90 psi	20-90 psi	20-90 psi	20-90 psi
Operating Temperature	33-120°F	33-120°F	33-120°F	33-120°F
Electrical Requirements	24V/60 Hz	24V/60 Hz	24V/60 Hz	24V/60 Hz
Electrical Power Consumption, Min/Max	3 Watts/35 Watts	3 Watts/35 Watts	3 Watts/35 Watts	3 Watts/35 Watts
Drain Flow, Maximum4	2.0 gpm	3.5 gpm	5.0 gpm	6.0 gpm
Recharge Time, Average <sup>5</sup>	85 min	84 min	82 min	96 min
Recharge Water Consumption, Average <sup>5</sup>	54 gal	80 gal	181 gal	183 gal

1 The efficiency rated dosage is only valid at the stated salt dosage and maximum service flow rate and is efficiency rated according to NSF/ANSI 44.

- 2 Measured from top of media to top surface of tank threads. (backwashed and drained).
- 3 Measured from top of underbedding to top surface of tank threads.
- 4 Backwash at 120 psi (830 kPa).
- 5 10 minute backwash, 6 lb 10" model, 7 lb. 12" model, 12 lb. 14" model or 14 lb. 16" model salt dosage.



# Introduction

### **Read this Manual First**

Before you operate the Culligan Advanced Platinum Plus Series Water Softening System, read this manual to become familiar with the device and its capabilities.

# Watch for Special Paragraphs

Please read the special paragraphs in this manual. Examples are shown below.

# **Safe Practices**

Throughout this manual there are paragraphs set off by special headings.

**Note:** Check and comply with your state and local codes. You must follow these guidelines. For installations in Massachusetts, Massachusetts Plumbing Code 248 CMR shall be adhered to. Consult your licensed plumber for installation of this system. This system and its installation must comply with state and local regulations. The use of saddle valves is not permitted.

**Note:** Note or Notice is used to emphasize installation, operation or maintenance information which is important, but does not present any hazard. Example:

**Note:** The nipple must extend no more than 1 inch above the cover plate.

**Caution!** Caution is used when failure to follow directions could result in damage to equipment or property. Example:



**Caution!** Disassembly while under water pressure can result in flooding.

**WARNING!** Warning is used to indicate a hazard which could cause injury or death if ignored. Example:



Warning! Electrical Shock Hazard! Unplug the unit before removing the cover or accessing any internal control parts.

# **Serial Numbers**

The control valve serial number is located on the back of the timer case.

The media tank serial number is located on the top surface of the tank.

**Note:** Do not remove or destroy the serial number. It must be referenced on request for warranty repair or replacement.

This publication is based on information available when approved for printing. Continuing design refinement could cause changes that may not be included in this publication.

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# It's All So Easy, So Economical, So Efficient, So Enjoyable!

### Kind To Skin And Complexion

Soft water will help prevent red, itchy or dry skin because there are no hardness impurities to cause soreness, no soap curd to coat the skin. Shaving is easier, smoother - either with blade or electric shaver.

### **Bathing And Showering**

You'll use far less soap with conditioned water. Use your soap very sparingly - not as you did before soft water. Just a quick rinse removes all lather, leaving your skin pleasantly smooth and silky - because now it's free of sticky soap curd and film.

### Saves Washing Costs. Helps Control Environmental Pollution

Soft water washes whiter and cleaner with less soap or detergent. Because the hardness impurities are removed, your soap can concentrate solely on washing. People usually find that they can reduce the amount of soap they use substantially. If you normally used a cup per wash load with hard water, try using only 1/3 cup depending on the size of your wash load and the degree of soil. Different amounts are required, but you can use less with softened water. An added bonus is the fact that your washable fabrics will last longer.

### **Super Hair Conditioning**

Soft water is great for scalp and hair care. No insoluble deposits are formed. Hair is shinier, softer, more manageable. Reduce the amount of shampoo you have normally used.

### **Dishes Are A Delight**

Washed by hand or in a dishwasher, glassware, dishes and silver wash cleaner, easier. Follow your dishwasher manufacturer's instructions. Soft water promotes sanitation because no greasy hard water film can form to collect or harbor bacteria.

### Easier Housekeeping, Gleaming Fixtures

You'll be amazed at the marvelous difference. Just a swish of the cloth, and the bathtub or shower and fixtures are clean and sparkling. Imagine, no scouring! No hard water scum to cause rings, streaks, spots and stains. To keep their gleaming luster, simply wipe fixtures with a towel after use. Formica, tile, walls, floors, woodwork surfaces clean easier, stay clean longer. You'll save on cleaning aids and save on time.

# Introduction (cont.)



# Introduction (cont.)

### Saves Water-Heating Energy, Helps Water-Using Appliances

Soft water reduces the formation of rock-like hard water scale which encrusts water heaters, hot water pipes, shower heads, and water-using appliances. This scale can cause premature maintenance and failure.

Elimination of hard water also provides substantial energy savings because scale acts as an insulator, wasting electricity or gas used to heat water.

### **Savings Galore**

A water conditioner is frequently referred to as "the appliance that pays for itself". You'll find that your savings on soaps, detergents, cleaning aids, and personal care products will help your family's household budget. And if you place a price on your time, you'll be most happy with the time saved by your new family servant.

### Water For Lawns And Household Plants

If possible, lawn sprinkling faucets should be supplied with hard water primarily because it is uneconomical to soften so much water.

Household plants are much more sensitive than lawns with respect to the kind of water which is best. First, because they receive no rainfall and, second, there is little or no drainage of the soil. Preferably they should be watered with rainwater or water which is low in mineral content such as distilled or demineralized water. Softened water is not recommended for house plants because a build-up of sodium in the soil may interfere with efficient absorption of water by the plant root system. Additional information may be obtained from your independently operated Culligan dealer.



# Why Water Gets Hard And How It's Softened

All of the fresh water in the world originally falls as rain, snow, or sleet. Surface water is drawn upward by the sun, forming clouds. Then, nearly pure and soft as it starts to fall, it begins to collect impurities as it passes through smog and dust-laden atmosphere. And as it seeps through soil and rocks it gathers hardness, rust, acid, unpleasant tastes and odors.

Water hardness is caused primarily by limestone dissolved from the earth by rainwater. Because of this, in earlier times people who wanted soft water collected rainwater from roofs in rain barrels and cisterns before it picked up hardness from the earth.

Some localities have corrosive water. A softener cannot correct this problem and so its printed warranty disclaims liability for corrosion of plumbing lines, fixtures or appliances. If you suspect corrosion, your Culligan Man has equipment to control the problem.

Iron is a common water problem. The chemical/physical nature of iron found in natural water supplies is exhibited in four general types:

- 1. **Dissolved Iron -** Also called ferrous or "clear water" iron. This type of iron can be removed from the water by the same ion exchange principle that removes the hardness elements, calcium and magnesium. Dissolved iron is soluble in water and is detected by taking a sample of the water to be treated in a clear glass. The water in the glass is initially clear, but on standing exposed to the air, it may gradually turn cloudy or colored as it oxidizes.
- 2. Particulate Iron Also called ferric or colloidal iron. This type of iron is an undissolved particle of iron. A softener will remove larger particles, but they may not be washed out in regeneration effectively and will eventually foul the ion exchange resin. A filtering treatment will be required to remove this type of iron.
- **3.** Organic Bound Iron This type of iron is strongly attached to an organic compound in the water. The ion exchange process alone cannot break this attachment and the softener will not remove this type of iron.
- **4. Bacterial Iron -** This type of iron is protected inside a bacteria cell. Like the organic bound iron, it is not removed by a water softener.

When using a softener to remove both hardness and dissolved iron it is important that it regenerates more frequently than ordinarily would be calculated for hardness removal alone. Although many factors and formulas have been used to determine this frequency, it is recommended that the softener be regenerated when it has reached 50 - 75% of the calculated hardness alone capacity. This will minimize the potential for bed fouling. (Iron removal claims have not been verified by the Water Quality Association or Underwriters Laboratories.)

If you are operating a water softener on clear water iron, regular resin bed cleaning is needed to keep the bed from coating with iron. Even when operating a softener on water with less than the maximum of dissolved iron, regular cleanings should be performed. Clean every six months or more often if iron appears in your conditioned water supply. Use resin bed cleaning compounds carefully following the directions on the container.



**Caution!** Do not use where the water is microbiologically unsafe or with water of unknown guality without adequate disinfection before or after the unit.

# How Your Water Conditioner Works



# The Culligan Process

Your Culligan water conditioner consists of three basic components, (A) the Control Valve, (B) the Mineral Tank, and (C) the Brine System.

- A. The exclusive Culligan control valve automatically performs a variety of tasks that are necessary for the proper operation of your water conditioner. These tasks, commonly referred to as cycles or operating positions, are Service, Regeneration, and Brine Refill.
  - Service: While the control valve is in the "Service cycle", hard water is directed down through the column of Cullex<sup>®</sup> resin where hardness minerals are removed from the water. The softened water is then directed into your household plumbing lines. The ability of the Cullex resin to remove hardness minerals needs to be periodically replenished; this is referred to as . . .
  - 2. **Regeneration**: While the control valve is in the "Regeneration cycle", water is first directed up through the column of Cullex resin to flush accumulated sediment out of the resin and down the drain. Then, the regenerant brine solution is slowly drawn from the bottom of the salt storage tank of the Brine System and is directed down through the column of Cullex resin, restoring the ability of the resin to remove hardness minerals from your water supply. Once completed, the regeneration cycle is followed by . . .
  - 3. **Brine Refill**: While the control valve is in the "Brine Refill cycle", a predetermined amount of water is directed to the salt storage tank of the Brine System so that additional salt can be dissolved to provide the brine solution that will be needed for the next regeneration cycle.
- B. The Mineral Tank contains the Cullex resin column, Cullsan<sup>®</sup> underbedding, and an outlet manifold. The number of gallons of hard water that can be softened by the Cullex resin column before it needs regeneration is called the "capacity" of the resin column, and depends upon the amount of hardness minerals in each gallon of water (expressed as grains per gallon) and upon the amount of regenerant brine solution (expressed as pounds of salt) passed through the resin column during regeneration.

Your Culligan service person, taking into account the hardness of your water and the amount

of softened water your household may reasonably expect to use each day, has carefully established how often the softener will regenerate and how much salt will be used for each regeneration. This will ensure that all of your soft water needs will be fulfilled without using an excessive amount of salt.

C. The Brine System consists of a salt storage container and hydraulic Dubl-Safe<sup>™</sup> valve. The salt storage container holds the salt that is used to make the regenerant brine solution. The hydraulic Dubl-Safe valve limits the amount of water that is returned to the salt storage tank during the brine refill cycle.

Since a predetermined amount of salt is dissolved with each brine refill cycle, the salt must be periodically replenished in order to maintain efficient operation. Your Culligan service person will be able to tell you about how often salt must be added to the salt storage container.





### Water Meter Mode

In water meter mode, the controller keeps track of the quantity of water that has flowed through the resin bed. Based on the influent water hardness and the hardness capacity of the resin bed, a service life expectancy in the quantity of softened water is calculated and programmed into the control. When the set point is reached, regeneration is triggered. In delay regeneration mode, if the predict mode is turned on, the average daily water usage will be compared to the remaining capacity at the regeneration delay time to predict if another day's water usage can occur before requiring regeneration. If enough capacity is not present then the regeneration will occur at that time. If the predict mode is not selected the regeneration will start at time of regeneration. In immediate mode the regeneration starts when the capacity is exhausted. If time clock backup is set and the capacity has not been exhausted but the days since last regen is greater than time clock backup, setting the softener will immediately regenerate.

### **Aqua-Sensor® Mode**

The Aqua-Sensor is a conductivity probe that senses when a hardness front passes through the resin bed. It functions independently of the influent water hardness so therefore, is useful in conditions when the influent water hardness varies throughout the year. It provides for the most efficient mode of operation. In addition to sensing when a resin bed is exhausted, it can also be used to determine when the brine solution is rinsed from the resin bed during the Brine Draw/ Slow Rinse cycle triggering the control to move to fast rinse. This patented feature provides water savings by optimizing the amount of rinse water required to completely rinse out the resin bed.

### **Smart Brine Tank Probe**

The smart brine tank probe monitors conditions inside the brine tank. It predicts when salt needs to be added to the brine tank, detects the presence of salt-bridging, eductor line plugging and brine tank overfilling.

### **Wireless Remote Control**

The wireless remote control displays the current status of the water softener or filters and allows for remote control. It can be located up to 200 feet away from the softener (depending upon building construction materials). The wireless remote displays information about softener performance, problems, days of salt remaining and allows remote control for regeneration.

The wireless remote control is designed to communicate at 915 MHz and to work without interference with other 915 MHz devices such as cordless telephones and baby monitors.

### Modem

The modem allows for the system to be remotely monitored detecting problems before they occur, to schedule salt delivery when it is needed and to keep the system software up to date with the latest advances.

### **Manual Regeneration**

Manual regeneration can be initiated via the softener control valve or wireless remote display. manual regeneration can be initiated to begin regeneration immediately or that night.

### **Predict Mode**

The Predict Mode is used with the flow meter to determine the optimum regeneration point. Before the regeneration starts, the control will compare the remaining capacity value with the average daily water use. If the average daily water usage is less than the reserve capacity, the controller will wait 24 more hours before regeneration. If the reserve capacity is less than the average daily water usage, the control will initiate regeneration. This works in delay mode only.

# Modes of Operation



# **Preparation**

### **Component Description**

The water conditioner is shipped from the factory in a minimum of three cartons. Remove all components from their cartons and inspect them before starting installation.

**Control Valve Assembly -** Includes the 5-cycle regeneration control valve and the Accusoft<sup>®</sup> Plus Microprocessor. Small parts packages will contain additional installation hardware, and the conditioner Owner's Guide.

**Media Tank** - Includes Quadra-Hull<sup>®</sup> media tank complete with Cullex<sup>®</sup> ion exchange resin, underbedding and outlet manifold (12", 14" and 16" tanks are shipped without media).

**Salt Storage Tank Assembly** - Includes salt storage container with support plate and Dubl-Safe<sup>™</sup> brine refill valve and chamber.

**Bypass Valve -** Includes the molded bypass valve, the interconnecting couplings, and the assembly pins.

### **Tools and Materials**

**Note:** Check and comply with your state and local codes. You must follow these guidelines.

For installations in Massachusetts, Massachusetts Plumbing Code 248 CMR shall be adhered to. Consult your licensed plumber for installation of this system. This system and its installation must comply with state and local regulations. The use of saddle valves is not permitted.

The following tools and supplies will be needed, depending on installation method.

#### **All Installations**

- Safety glasses
- Phillips screwdrivers, small and medium tip.
- Gauge assembly (PN 00304450 or equivalent)
- Silicone lubricant (PN 00471507 or equivalent) Do Not Use Petroleum-Based Lubricants
- A bucket, preferably light-colored
- Towels

### **Special Tools**

- Torch, solder and flux for sweat copper connections
- Use only lead-free solder and flux for all sweat-solder connections, as required by state and federal codes.
- Threading tools, pipe wrenches and thread sealer for threaded connections.
- Saw, solvent and cement for plastic pipe connections.

### **Materials**

- Brine line, 3/8" (PN 01009819 or equivalent)
- Drain line, 1/2" (PN 00303082, gray, semi-flexible; or PN 00-3319-46, black, semi-rigid; or equivalent)
- Thread sealing tape
- Pressure reducing valve (if pressure exceeds 125 psi [860 kPa], PN 00490900 or equivalent)
- Pipe and fittings suited to the type of installation
- Water softener salt (rock, solar or pellet salt formulated specifically for water softeners)



# **Application**

Water quality - Verify that raw water hardness and iron are within limits. Note the hardness for setting the salt dosage and recharge frequency.

Iron is a common water problem. The chemical/physical nature of iron found in natural water supplies is exhibited in four general types Dissolved Iron, Particulate Iron, Organic Bound Iron and Bacterial Iron.

Hardness sample kits are available through your local Culligan dealer.

**Pressure** - If pressure exceeds 125 psi (860 kPa), install a pressure reducing valve (see materials checklist). On private water systems, make sure the minimum pressure (the pressure at which the pump starts) is greater than 20 psi (140 kPa). Adjust the pressure switch if necessary.

**Caution!** Do not use where the water is microbiologically unsafe or with water of unknown quality adequate disinfection before or after the unit.

**Caution!** The use of a pressure reducing valve may limit the flow of water in the household.

**Temperature** - Do not install the unit where it might freeze, or next to a water heater or furnace or in direct sunlight. If installing in an outside location, you must take the steps necessary to assure the softener installation plumbing, wiring, etc. areas well protected from the elements (sunlight, rain, wind, heat, cold), contamination, vandalism, etc. as when installed indoors.

### Location

Space requirements - Allow 6-12 inches (15-30 cm) behind the unit for plumbing and drain lines and 4 feet (1.3 meters) above for service access and filling the salt container.

**Floor surface** - Choose an area with solid, level floor free of bumps or irregularities. Bumps, cracks, stones and other irregularities can cause the salt storage tank bottom to crack when filled with salt and water.

**Drain facilities** - Choose a nearby drain that can handle the rated drain flow (floor drain, sink or stand pipe). Refer to the Drain Line Chart, Table 3 (page 15), for maximum drain line length.

**Note:** Most codes require an anti-siphon device or air gap. Observe all local plumbing codes and drain restrictions. The system and installation must comply with all state and local laws and regulations.

**Electrical facilities** - A 10-foot cord and wall mount plug-in transformer are provided. The customer should provide a receptacle, preferably one not controlled by a switch that can be turned off accidentally. Observe local electrical codes.

**Note:** The softener works on 24 volt - 60 Hz electrical power only. Be sure to use the included transformer. Be sure the electrical outlet and transformer are in an inside location to protect from moisture. Properly ground to conform with all governing codes and ordinances.

**Note:** P.N. 01012956 and P.N. 01014897 plug-in transformer are rated for indoor installations only.

P.N. 01015972 plug-in transformer is rated for indoor/outdoor installations. (Non-Aqua-Sensor)

# Preparation (cont.)



# Installation

**Note:** Read this section entirely before starting the installation. Follow all applicable plumbing and electrical codes.

With the exception of media containers, open the remaining containers, remove all the components, and inspect them before starting installation.

# Placement

Refer to figure 1 for system placement.

- Set the media tank on a solid, level surface near water, drain and electrical facilities.
- Set the brine system on a flat, smooth, solid surface as near the media tank as possible.



# **Tank Assembly**

Before the unit can be connected to the plumbing the manifold distributors must be assembled and the underbedding and resin must be loaded into the tank for 12", 14" and 16" tanks.



**Caution!** DO NOT lay the tank down unless a suitable lifting device is available. Personal injury and damage to the unit can result if dropped.

# Position of the Mineral Tank(s)

Determine the location for the mineral tanks(s) prior to loading, since they will be difficult to move after the underbedding and gravel are loaded.



# Loading the Tank (12", 14" and 16" Tanks)

- 1. Position the tank so that the Culligan<sup>®</sup> logo is in the front.
- 2. Remove the inlet strainer.
- 3. Install the outlet manifold into the tank (Figure 2).
- 4. Cover the top of the manifold with a clean rag.
- 5. Using a large-mouth funnel, load the Culligan underbedding through the top of the tank.



**Caution!** DO NOT allow the outlet manifold to move when loading the media. The manifold must remain vertical to ensure a good seal at the gasket. Rap the tank near the bottom with a rubber mallet to level the sand.

- 6. Aqua-Sensor® Installation (optional device)
  - A. Measure the sensor cable length as shown in Figure 2 and Table 1 (the Aqua-Sensor<sup>®</sup> cord is set at the factory for a 9" tank).
  - B. Loosen the small Aqua-Sensor<sup>®</sup> Plug, a needle-nose pliers works best (figure 3).
  - C. Moisten the cable sheath and slide the cable grip up or down to the proper cable length.
  - D. Tighten the small Aqua-Sensor® plug so that the fitting cannot slide along the cable.

**Note:** There must be no kinks or bends in the cable.

- E. Insert the probe and cable through the Aqua-Sensor<sup>®</sup> port.
- 7. Load the tank with the Cullex<sup>®</sup> ion exchange resin. Leveling is not required. Remove the funnel.
- Install the inlet strainer making sure to thread the strainer in until it bottoms out on the thread. Failure to install the strainer correctly can cause the control to leak.

Dimension "X" is the exposed length the Aqua-Sensor® cord (cord length from the Aqua-Sensor® plug to the circuit board connector). You can then verify the Aqua-Sensor® probe is inserted to the proper depth by confirming dimension "X" is at the corrected length.

X	Y
30 1/2″	44″
32 1/2″	42″
22 1/2″	52″
22 1/2″	52″
	32 1/2" 22 1/2"







Figure 3

# Installation (cont.)



Installation (cont.)

# Mount the Control Valve

See Figure 4 for a visual on mounting the control valve to the tank.

- Remove and discard the protective cover in the tank neck.
- Install the inlet strainer making sure to thread the strainer in until it bottoms out on the thread. Failure to install the strainer correctly can cause the control to leak.
- Lubricate the O-ring on the valve body lightly with silicon lubricant.

**Note:** Do not use petroleum based lubricant, for this will cause swelling of rubber parts.

• Align the outlet manifold with the center opening in the control valve.

**Note:** Make sure to push the valve straight down onto the manifold. If the valve is cocked it may cause the O-ring to slip off the manifold.

• Screw the tank adapter into the tank until the adapter bottoms out on the tank flange.

**Note:** The adapter only needs to be tightened hand-tight to the tank flange.

- Assemble the O-rings, located in the parts pack, to the tank adapter.
- The valve adapter O-ring sits on the first step on the adapter. See Figure 5.

**Note:** Do not push the top O-ring down to the flange surface on the adapter.

**Note:** The larger of the two O-rings in the parts pack goes between the adapter and the valve, do not stretch the smaller O-ring onto the top of the tank adapter.

- Lubricate only the top O-ring on the tank adapter, and the outlet manifold O-ring with silicone lubricant.
- Position the unit with the inlet and outlet connections to the rear.
- Align the manifold with the center opening in the valve, and press the valve onto the adapter firmly.

**Note:** Make sure to push the valve straight down onto the manifold. If the valve is cocked, it may cause the O-ring to slip off the manifold.

• Assemble the tank clamp to the control, and tighten the clamp screw.

**Note:** The clamp and valve will be able to rotate on the tank until pressure is applied.







# Flow Control Eductor Nozzle

Listed below is the recommended eductor nozzle to be used at various salt dosages.

Tank	Injector	Draw Rate	DLFC (gpm)	BLFC (gpm)
10 x 54	1 - white	0.38	2	0.45
12 x 52	1 - white	0.38	3.5	0.45
14 x 65	4 - green	0.78	5.0	0.8
16 x 65	4 - green	0.78	6	0.8

Table 2 - Flow Restrictors

Refer to Figure 6 for a visual on changing the eductor nozzle and the backwash flow control.



**Note:** When installing a 12", 14" or 16" tank the Eductor Factor A, Eductor Factor B and Brine Fill Flow needs to be updated in the circuit board, see Advanced System Set-up to update.

# **Eductor Nozzle Replacement:**

- Remove the injector clip on the eductor cap and remove the cap.
- Remove the injector assembly.
- Remove the injector screen from the assembly
- Remove the injector assembly that is shipped inside the control and replace it with the proper assembly as per Table 2.
- Reverse the procedure to reassemble.

# Installation (cont.)



Installation (cont.)

# **Backwash Flow Control Replacement:**

- Remove the drain clip and pull the drain elbow straight off.
- Remove the backwash flow control located behind the elbow.
- Install the correct backwash flow control.
- Reverse the procedure to reassemble.

Note: The number on the flow control should face into the valve body.

# **Plumbing Connections**

Shipped with each softener is a Culligan<sup>®</sup> bypass valve, which is used to connect the softener to the plumbing system. The bypass allows the softener to be isolated from the water service line if service is necessary while still providing water to the home. See the parts list for connectors that are available.



**Caution!** Close the inlet supply line and relieve system pressure before cutting into the plumbing! Flooding could result if not done!

**Caution!** When making sweat connections, use care to keep heat away from the plastic nuts used to connect the plumbing to the bypass. Damage to these components may otherwise result.

# **Bypass Valve Installation**

The bypass valve connects directly to the control valve with a pair of couplings and two assembly pins. Lubricate all O-rings on the couplings with silicone lubricant.

The bypass valve is in the service position when the handle is rotated as far back as possible (See figures 7a and 7b).

**Note:** If the ground from the electrical panel or breaker box to the water meter or underground copper pipe is tied to the copper water lines and these lines are cut during installation of the bypass valve, an approved grounding strap



must be used between the two lines that have been cut in order to maintain continuity. The length of the grounding strap will depend upon the number of units being installed. In all cases where metal pipe was originally used and is later interrupted by the bypass valve to maintain proper metallic pipe bonding, an approved ground clamp c/w not less than #6 copper conductor must be used for continuity. Check your local electrical code for the correct clamp and cable size.



**Caution!** To bypass the valve, turn bypass knob on both sides of the valve to bypass position (see figure 7b). When returning to service, put the inlet into service before the outlet.

# **Drain Line Connection**

Refer to Table 3, for drain line length and height limitations.

- Remove 1/2" pipe clamp from the small parts pack included with the control.
- Route a length of 1/2'' drain line from the drain elbow to the drain.
- Fasten the drain line to the elbow with the clamp.
- Secure the drain line to prevent its movement during regeneration. When discharging into a sink, or open floor drain, a loop in the end of the tube will keep it filled with water and will reduce splashing at the beginning of each regeneration.

**Note:** Waste connections or drain outlets shall be designed and constructed to provide for connection to the sanitary waste system through an air gap of 2 pipe diameters or 1 inch, whichever is larger.

**Note:** Observe all plumbing codes. Most codes require an anti-siphon device or air gap at the discharge point. The system and installation must comply with state and local laws and regulations. For installations in Massachusetts, Massachusetts Plumbing Code 248 CMR shall be adhered to. Consult your licensed plumber for installation of this system. This system and its installation must comply with state and local regulations.

Height of Discharge Above Floor Level Operating						
Operating Pressure	0 ft (0 m)	2 ft (0.6 m)	4 ft (1.2 m)	6 ft (1.8 m)	8 ft (2.4 m)	10 ft (3 m)
30 psi (210 kPa)	60 ft (18 m)	50 ft (15 m)	30 ft (9 m)	15 ft (5 m)	Not allowable	Not allowable
40 psi (279 kPa)	100 ft (30 m)	90 ft (27 m)	70 ft (21 m)	50 ft (15 m)	30 ft (9 m)	12 ft (4 m)
50 psi (349 kPa)	145 ft (41 m)	115 ft (35 m)	80 ft (24 m)	80 ft (24 m)	60 ft (18 m)	40 ft (12 m)
60 psi (419 kPa)			100 ft (30 m)	100 ft (30 m)	85 ft (26 m)	60 ft (18 m)
80 psi (559 kPa)	Normal	installation	should not	require	140 ft (43 m)	120 ft (37 m)
100 psi (699 kPa)	more th	nan 100 ft (	30 m) of dr	ain line		150 ft (46 m)

Table 3 - Maximum Allowable Drainline Length

### Fill the Storage Container

Fill the salt storage container with water until the level reaches about 1 inch above the salt support plate. Pour salt into the container. Fill with salt to within a few inches of the top.

# Installation (cont.)



# Installation (cont.)

# Brine Valve "A" Dimension

The Culligan Advanced Platinum Plus Series<sup>™</sup> unit contains a brine float which can serve as a backup refill shutoff in the event of a failure, such as a power outage when in the refill position. The float level should be set based on the salt dosage setting. Contact your Culligan dealer for setting.

- Remove the nut retaining brine valve to the brine chamber.
- Lift the brine valve from the brine chamber.
- Set the distance from the top of the filter screen to the base of the float accordingly. The slight difference in height when the float is pulled up or down is negligible.
- Re-install the brine chamber and replace the nut.

# **Connect the Brine Line**

- Measure a length of brine line sufficient to reach from the brine tank to the brine fitting, with no sharp bends. For easier access to the float it is recommended to add an extra four feet (1.3 meters) of length to the brine line. Cut both ends of the brine line squarely and cleanly.
- Slip the white nut over one end of the tubing and press the plastic insert into the end of the tubing (Figure 9). Connect to the brine valve and tighten nut.
- Remove white nut and plastic insert from the small parts pack.
- Slip the white nut over one end of the tubing and press the plastic insert into the end of the tubing (Figure 9). Connect to the brine connection on the valve and tighten nut.



# Fill The Salt Storage Container

Fill the salt storage container with water until the level reaches about 1 inch above the salt support plate. Pour salt into the container. Fill with salt to within a few inches of the top.



### Aqua-Sensor<sup>®</sup> Probe and Soft-Minder<sup>®</sup> Meter Connection

To connect the probe or meter leads refer to Figure 10 and proceed as follows:

- Remove the timer case from the back plate.
- Snap the circuit board holding plate off the back plate to provide access to the back of the circuit board.
- Remove the plastic plug from the backplate.



• Slip the sensor probe lead or meter cable through the hole and toward the circuit board.

**Note:** The strain relief located on the back of the wire connection for the Aqua-Sensor probe may have to be removed in order to fit it through the backplate. Replace the strain relief if you need to remove it for assembly.

- Connect the lead to the circuit board. The Aqua-Sensor probe terminal is labeled "Aqua-Sensor" while the Soft-Minder meter terminal is labeled "Flow Meter".
- Pull any excess cable wire back out of the enclosure, and route the wiring inside the enclosure to avoid any interference with moving parts.
- Locate the strain relief bushing in the parts pack. Place it on the cable at the point of entry to the rear of the timer plate and push it



**Note:** The wire connectors must be connected to the circuit board properly. The wires must exit the plug-in connector opposite of the raised white base of the circuit board connector. Failure to properly connect any of the connectors will result in a malfunction of the circuit board operation.

Installation (cont.)



Installation (cont.)

# **Electrical Connection**

Note: Observe all state and local electrical codes.

The power cord needs to be connected to the plug-in transformer. Figure 11 shows the cord attachment to the transformer. The Aqua-Sensor® probe requires a 2.5 VAC power source. This source is provided via two of the posts on the 24V/2.5V transformer. Two leads from the transformer must be wired to the 2.5 VAC terminal on the circuit board. The wire connector from the Aqua-Sensor probe is simply plugged in the circuit board (Figure 10).





**Caution!** Failure to connect power to the correct terminals will damage the circuit board!







# First Time Setup Process

# **First Set-up Procedure**

After completing the plumbing connections to the water softener, follow these steps to turn on and program the softener controller. STEP 1: Plug in the wall transformer

STEP 2: Perform the on-display "First Time Setup" process

- ♠ Moves up the menu
- Moves down the menu
- Changes the display, accept desired change
- X Cancel or exit





Remote



When a new controller is first turned on, the display will show the messages shown. The controller is designed to simplify the setup and installation process by making some default recommendations during the Initial Setup. The default settings are designed to be appropriate for most common installations.

# **Default Settings**

- Downflow Brining<sup>2</sup>
- Standard Mesh Resin<sup>1</sup>
- Blue/Beige Eductor<sup>1</sup>
- 0.45 GPM Brine Flow Control<sup>1</sup>
- 0 PPM Iron<sup>1</sup>
- > 40 psi water pressure<sup>1</sup>
- NaCl Salt<sup>1</sup>
- Time of Regen =  $2:00 \text{ AM}^2$

- Regen Time = Delayed<sup>2</sup>
- Dosage (calculated)<sup>2</sup>
- Predict Mode OFF<sup>3</sup>
- 30% Reserve Capacity<sup>2</sup>
- Time Clock Backup = OFF<sup>3</sup>
- Day-of-week Regen = OFF<sup>3</sup>
- Pre-Rinse Mode = OFF<sup>1</sup>
- <sup>1</sup>= these items are changed on the Main Menu / Advanced / System Setup Menu
- $^{2}\text{=}$  these items are changed on the Main Menu / Advanced / Regen Setup Menu
- $^{3}\text{=}$  these items are changed on the Main Menu / Advanced / Regen Trigger Menu





1. Electronic Serial Number, FIrmware version and release date



# First Time Setup Process (Cont.)

S/N: 00000123 FWV 119LT 01 AUG 11 2009

The second screen which shows is very important as it shows the electronic ID number of the controller.

**Note:** If this unit will be installed with a modem, it is required that this electronic ID number is reported back to Culligan on the IQR form.



set топтн **ЈЯП** 

Pressing the **DOWN** arrow button will change the display to read "Set Month".

- 2. Set Month
- If the default selection is correct, pressing the **DOWN** arrow will accept that value and take you to the next question.



• If the value displayed is NOT correct then pressing the **CHECK MARK** button will change the display, as shown to show a ">" symbol next to the displayed value.

SET MONTH	
> FEB	

• The ">" symbol indicates that this value may be changed by pressing the **UP** and **DOWN** arrow buttons. For example, pressing the **DOWN** arrow while the ">" mark is displayed changes the display from "JAN" to "FEB".



• Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.



Pressing the **DOWN** arrow will accept that value and take you to the next question.

Cultique	
First Time Setup Process	<ul> <li>3. Set Day</li> <li>Set Day</li> <li>Set Day</li> <li>If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a "&gt;" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.</li> <li>Pressing the DOWN arrow will accept that value and take you to the next question.</li> <li>4. Set Year</li> <li>Set Year</li> <li></li></ul>



### 6. Set Hour

SET F	IOUR
71	AM

 If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

Pressing the **DOWN** arrow will accept that value and take you to the next question.

7. Set Minute

SET MINUTE
32

 If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

Pressing the **DOWN** arrow will accept that value and take you to the next question.

8. Set Valve Type

VALVE	TYPE
Plat	PLUS

Note: The Platinum Plus Advanced is set-up as a "Plat Plus" valve type.

 If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

Pressing the **DOWN** arrow will accept that value and take you to the next question.

# First Time Setup Process (Cont.)

Cuttique	
First Time Setup Process	<ul> <li>9. Set US or Metric Units UTTS US-INCH </li> <li>If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a "&gt;" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button. Pressing the DOWN arrow will accept that value and take you to the next question. 10. Set Softener or Filter UNIT TYPE SOFTENER If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a "&gt;" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button. Pressing the DOWN arrow will accept that value and take you to the next question. It is the value displayed is NOT correct, pressing the "CHECK MARK" button. Pressing the DOWN arrow will accept that value and take you to the next question. It is the value can be accepted by pressing the "CHECK MARK" button. Pressing the DOWN arrow will accept that value and take you to the next question. It is the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display to show a "&gt;" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button. It is the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display to show a "&gt;" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value. Use the UP or DOWN arrow to change the setting. Once the desired value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button. Pressing the DOWN arrow will acc</li></ul>



### 12. Set Softener Resin Volume

RESIN	in tank?
1.5	CU-FT

 If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

Pressing the **DOWN** arrow will accept that value and take you to the next question.

13. Setup is Complete

Once first time setup is complete the circuit board microprocessor will automatically calculate softener capacity and automatically "**INITIALIZE**" the control. The control will automatically initiate a regeneration that night. The display will alternate between "**SOFTENING**" and "**REGEN TONITE**".

# First Time Setup Process (Cont.)



# Set Date and Time

### Set Date and Time

To update the date or time and be updated at the control valve or remote display. Follow the procedure below to update the date or time.



Pressing the **DOWN** arrow will accept that value and take you to the next question.



### 3. Set Day

SET DAY	
1	

 If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

Pressing the **DOWN** arrow will accept that value and take you to the next question.

4. Set Year

SET YEAR	
2009	

 If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

Pressing the **DOWN arrow** will accept that value and take you to the next question.

5. Set 12 Hour or 24 Hour Clock



 If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

Pressing the **DOWN** arrow will accept that value and take you to the next question.

6. Set Hour

SET	HOUR
7	AM

 If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

# Set Date and Time (Cont.)



# Set Date and Time (Cont.)

Pressing the **DOWN** arrow will accept that value and take you to the next question.

7. Set Minute



• If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

Pressing the **DOWN** arrow will accept that value and take you to the next question.

8. Daylight Savings Tlme

daylight savings **YES** 

Press the "CANCEL" button to return to the "HOME" screen.

 If the value displayed is NOT correct, pressing the "CHECK MARK" button will change the display, to show a ">" symbol next to the displayed value. Use the UP or DOWN arrow to change the setting. Once the desired value is displayed, this value can be accepted by pressing the "CHECK MARK" button.

Pressing the **DOWN** arrow will accept that value and take you to the next question.

Press the "CANCEL" button to return to the "HOME" screen.



The following information can be displayed at the control valve or remote display.

SOFTENING JAN-01-09 12:01 A		T
) 1) Information 2) Manual Mode 3) Set Date/Time 4) Accessories	From the home screen, pres the <b>DOWN</b> arrow to <b>INFORMATION</b> . Press the <b>CHECK MARK</b> button. Press the down arrow to scroll through the <b>INFORMATION</b> menu.	
SALT TANK LEVEL OK	Displays the salt level in the brine tank. This screen will only be displayed if a Smart Brine Tank probe is installed. If " <b>LOW</b> " is displayed, the next screen will view the " <b>APRROX DAYS OF SALT REMAINING</b> ". Press the <b>DOWN</b> arrow to view the next screen.	
REMAINING CAPACITY <b>98%</b>	Displays the percent softening <b>REMAINING CAPACITY</b> of unit. Press the <b>DOWN</b> arrow to view the next screen.	
TOTAL CAPACITY 891 GALLONS	Displays the gallon softening <b>REMAINING CAPACITY</b> of unit. Press the <b>DOWN</b> arrow to view the next screen.	
SALT USED 27.0 LBS	Displays the <b>SALT USED</b> since the unit was first installed. Press the <b>DOWN</b> arrow to view the next screen.	
CURRENT FLOW RATE	Displays the <b>CURRENT FLOW RATE</b> of unit. Press <b>DOWN</b> arrow to view the next screen.	
TODRY'S USAGE	Displays <b>TODAY'S WATER USAGE</b> of unit. Press <b>DOWN</b> arrow to view the next screen.	
AVERAGE DAILY 300 GALLONS	Displays <b>AVERAGE DAILY WATER USAGE</b> of unit. Press <b>DOWN</b> arrow to view the next screen.	
NEXT REGEN ON JAN-03	Displays when the <b>NEXT REGENERATION WILL OCCUR</b> of unit. Press <b>DOWN</b> arrow to view the next screen.	
TOTAL WATER USED	Displays <b>TOTAL WATER USED</b> since the unit was first installed. Press <b>DOWN</b> arrow to view the next screen.	
ext filt cap rem 98000 GALLONS	Displays the <b>EXTERNAL FILTER REMAINING CAPACITY</b> . Press <b>DOWN</b> arrow to view the next screen.	

Set Date and Time (Cont.)



# **Final Start-up**

# **Manual Regeneration**

Follow the procedure below to initiate a manual regeneration at the control valve or the remote display.





# Final Start-up (Cont.)

# Regeneration

There are several conditions that will cause the control to trip a regeneration. The "**REGEN TONITE**" will be displayed when the control has signaled for a regeneration. The "**REGENERATING**" will be displayed while the control is in regeneration. The following are conditions that will call for regeneration:

- 1. When the Soft-Minder<sup>®</sup> meter has recorded the passage of a predetermined number of gallons.
- 2. When the Aqua-Sensor® Probe senses the hardness in the Cullex Media.
- 3. At the preset time, when the number of days without a regeneration is equal to the Timeclock Backup setting.
- 4. At the preset time, when the "**REGEN TONITE**" is pressed. "**REGEN TONITE**" will be displayed.
- 5. Immediately, when the "**REGEN NOW**" button is pressed. "**REGENERATING**" will be displayed.
- 6. Immediately, if power to the unit has been off for more than 3 hours and time of day has been restored.

# **Recommended Meter Start-Up Procedure**

- Close the main water supply valve.
- Set the Cul-Flo-Valv® to the bypass position.
- Ensure that all faucets at the installation site are closed.
- Direct the drain line discharge into a bucket where flow can be observed.
- Plug the transformer into a 120 Volt, 60 Hz, single-phase receptacle.
- Complete the First Time Setup.
- Open the main supply valve.
- Initiate an immediate regeneration to move the control into the backwash position.
- Refer to the section on manual cycling for information on cycling the control through its positions.
- When in the backwash position, slowly shift the bypass to the soft water position until water flows.
- Allow the tank to fill slowly until water flows from the drain line.
- When flow to drain is established, open the bypass fully. Watch the drain line discharge for signs of resin. If signs of resin particles appear, reduce the flow. Increase the flow again when resin no longer appears in the discharge.
- When the unit is filled with water, return the timer to the service position.
- Sanitize the unit as you leave the installation site (See Sanitizing Procedure on page 36).

**Note:** Unplugging the Culligan Advanced Platinum Plus Series<sup>™</sup> water softener will not affect any of the control settings (the control must be plugged in for at least 10 minutes). Once programmed in, the settings will be stored indefinitely.

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Cultigan	Norma Colifer
	(1.7.19)

Final Start-up	Recommended Aqua-Sensor <sup>®</sup> Start-Up Procedure
(Cont.)	Close the main water supply valve.
()	• Install the sensor probe into the tank but do not connect the sensor to the control at this time.
	• Set the Cul-Flo-Valv® to the bypass position.
	• Ensure that all faucets at the installation site are closed.
	• Direct the drain line discharge into a bucket where flow can be observed.
	• Plug the transformer into a 120 Volt, 60 Hz, single-phase receptacle (make sure to connect both 24V and 2.5V properly).
	Complete the First Time Setup.
	Open the main supply valve.
	• Initiate an immediate regeneration to move the control into the backwash position.
	• Refer to the section on manual cycling for information on cycling the control through its positions.
	• When in the backwash position, slowly shift the bypass to the soft water position until water flows.
	• Continue backwash until the drain effluent is clear – at least 10 minutes (use a white foam coffee cup to occasionally collect a sample of backwash water; the stark white of the cup will show the presence of color throw and resin fines).
	• Continue or repeat the backwash cycle if needed (while in the backwash step, you can pull the plug on the control and allow it to run as long as needed).
	• After the backwash water runs clear, step the control to the Fast Rinse/Refill position to fill the brine tank and purge air from the brine line.
	Unplug the control and connect the sensor to the circuit board.
	Reconnect the power and "INSTALL" the Aqua-Sensor Probe (Main Menu/ Accessories/ AquaSensor).
	Check the condition of the Aqua-Sensor (Main Menu/ Advanced Setup/ Diagnostics/ Check sensor).
	Complete installation and cleanup.
	• Sanitize the unit as you leave the installation (see sanitizing procedure on page 36).
	<ul> <li>Initiate a regeneration or set to go at a preset time.</li> </ul>
	The thorough backwashing process should have cleared the fines and color-throw from the tank. The probe should settle into the resin bed during the first couple of minutes of backwashing.


Salt is the mineral used to "recharge" your water conditioner. A brine solution is automatically made up in the bottom of the salt storage container, the Cullex<sup>®</sup> resin beads in the mineral tank are flushed with the brine solution as a step in the recharging process.

Your Culligan Water Conditioner has been carefully designed to get the greatest amount of softening capacity from the salt it uses. Here is some pertinent information about salt usage, types and service.

#### Salt Economizer

This control is set at the time of installation, and determines salt usage according to the water hardness, number of persons in the household, and water usage.

#### What Kind of Salt is Best

All Culligan Water Conditioners are designed to use any water conditioner salt of good quality, including "rock", "pellet", "solar", or "evaporated" types.

All rock salt, regardless of source, contains insoluble material which collects at the bottom of the salt storage tank and requires periodic clean-out.

If purified salt products are used, the salt storage compartment will require less frequent clean-out, but you must check more frequently for "bridging".

Regardless of what type of salt is used, we recommend Culligan Brand Salt as suggested by your Culligan Dealer. He or she is the expert and can provide you with the best product for your Culligan Water Conditioner.

## **Automatic Salt Delivery Service**

Ask your Culligan Dealer for details about salt delivery service. You can have your salt supply replenished on a regular basis. Whether you have automatic delivery service or pick up salt from your Culligan Dealer, you will be getting quality salt packaged according to rigid Culligan specifications. Using Culligan Brand Salt will help assure continued efficiency and trouble-free operation of your water conditioner.

**SODIUM INFORMATION:** "Water softeners using sodium chloride for regeneration add sodium to the water. Persons who are on sodium restricted diets should consider the added sodium as part of their overall sodium intake."

## Salt Supply, Usage and Service



Care and Cleaning of your Water Conditioner

Following these simple precautions will help assure continued trouble-free service and keep your Culligan Water Conditioner looking like new for years.

- 1. Do not place heavy objects on top of the salt storage tank or timer cover.
- 2. Use only mild soap and warm water when cleaning the exterior of the conditioner. Never use harsh, abrasive cleaning compounds or those which contain acid, such as vinegar, bleach and similar products.
- Important! Protect your water conditioner and the entire drainline from freezing temperatures.
  DANGER! If your unit should freeze, do not attempt to disassemble it. Call your Culligan Dealer.
- 4. Important! Culligan water softeners are sold for use on potable water, only. If at any time the water becomes contaminated, such as during a "boil water" situation, the operation of the water softener should be discontinued until it is verified that the water is again potable. To do this, put the unit on bypass as indicated on page 40. Then, call your Culligan dealer to have your system sanitized before it is placed back into service.
- 5. Should service, adjustment or trouble-shooting information be needed which is not covered in the Use and Care Guide, call your Culligan Dealer.

If you have further questions, please call your local independently operated Culligan dealer. He or she will be glad to be of assistance to you. For your nearest Culligan dealer, call (800) 285-5442.

#### **Recommended Preventative Maintenance Inspection Schedule**

The Culligan Advanced Platinum Plus Series household water softener has been designed to provide a good, consistent service life. Routinely inspecting the system may help avoid potentially costly breakdowns related to circumstances outside of the control of the dealer and/or user.

Component	Suggested Inspection Frequency	Reason for Maintenance
Entire System	At Start-up, after infrequent use (idle for one week or more) or every 3 - 6 months.	On private supplies, the appearance of off-tastes and odors, particularly if musty or "rotten egg" (caused by harmless sulfate-reducing bacteria) may indicate a need for the system to be sanitized. See page 36.
Backwash Flow Controller	Every 12 months or every time service is performed on the system.	Build up of sediment, iron and/or other foreign materials (found in some water supplies but not necessarily all) could negatively affect system performance. Monitor item for normal or unexpected wear.
Brine eductor nozzle and throat	Every 12 months or every time service is performed on the system.	Build up of sediment, iron and/or other foreign materials (found in some water supplies but not necessarily all) could negatively affect system performance. Monitor item for normal or unexpected wear.
Softening Media (Cullex)	Every 2 -3 years	Chlorinated water supplies can breakdown and destroy resin material. Resin material may also perform poorly if subjected to other materials (sediment, iron, alum, etc.) found in some water supplies (but not necessarily all).



# To Clean Out the Salt Storage Tank

A periodic clean-out of the Salt Storage Tank is necessary to keep your Culligan Water Conditioner at peak operating efficiency. Do it at least every 2 years when the salt supply is low. Follow these step-by-step procedures:

#### Tools needed:

- Scoop
- Clean, bucket-size container
- Phillips-head screwdriver
- Garden hose
- Household scrub brush or sponge
- 1. Remove the salt storage tank cover and the cap from the brine valve chamber.
- 2. Lift the brine valve out of the brine valve chamber and set aside in an upright position.
- 3. If you'd like to save any clean, dry salt remaining in the tank, remove it and place it in a clean container.
- 4. Using the scoop, dig out and discard as much remaining salt, water and debris as possible.
- 5. Remove the brine valve chamber by removing the screws on either side of the salt tank.
- 6. Remove the salt plate at the bottom of the brine tank.
- 7. Lay the salt tank on its side and direct a brisk stream of water from your garden hose to its inside to rinse out all residue.
- 8. Using a household scrub brush and a mild soapy solution, clean the salt plate. This will complete the tank cleaning.
- 9. Stand salt tank upright. Replace the salt plate. Place brine valve chamber in position and affix with screws.
- 10. Insert the brine valve into the chamber and replace brine valve chamber cap.
- 11. Fill the salt storage tank with 4 to 6 inches of water.
- 12. Fill the tank with salt to within a few inches of the top.
- 13. Replace salt storage tank cover.

Care and Cleaning of your Water Conditioner (cont.)



Care and Cleaning of your Water Conditioner (cont.)

#### **Sanitizing Procedure**

A water softener in daily use on a potable water supply generally requires no special attention other than keeping the salt tank filled. Occasionally, however, a unit may require sanitization under one of the following conditions:

- At start-up time.
- After standing idle for a week or more.
- On private supplies, the appearance of off-tastes and odors, particularly if musty or "rotten egg" (caused by harmless sulfate-reducing bacteria).

**Note:** If the water supply contains iron, regenerate the softener before sanitizing to remove iron from the resin.



**Caution!** Hazard from toxic fumes! Chlorine bleach and common iron control chemicals may generate toxic fumes when mixed.

- If the unit uses Culligan Sofner-gard<sup>®</sup> or other compounds containing sodium hydrosulfite, sodium bisulfite, or any other reducing agent, disconnect the device feeding the chemical(s) and manually regenerate the unit before sanitizing.
  - Do not use this procedure if the softener salt contains iron control additives.
- 1. Remove the brine tank cover.
- 2. Pour directly into the brine chamber 1/3 to 1/2 cup of common household bleach (5.25% sodium hypochlorite) for each cubic foot of resin in the tank.
- 3. Manually start recharge. Allow the unit to complete the recharge cycle automatically.

If tastes and odors return frequently, even after sanitization, a continuous chlorination system may be needed. Send a water sample to a qualified laboratory for bacterial analysis.

If you unexpectedly experience hard water, make these simple checks before calling your Culligan dealer. One of the following conditions may be the reason for your interruption of service.	Things to Check Before Calling
<b>Important</b> If any of the following conditions is found, the water conditioner should be manually recharged according to instructions on page 30 after you have corrected the problem.	for Service
Power Supply	
Check your power supply cord. Is it plugged fully into the electric outlet? Be certain that the outlet is not controlled by a wall switch which has been turned off. Reset conditioner to proper time of day and then plug in.	
<b>Blown Fuse</b> Check the house fuse or circuit breaker panel. Replace a blown-out fuse or reset an open circuit breaker.	
Power Failure	
Any interruption in your power supply or time changes - such as daylight savings - will disrupt your conditioner's recharge schedule by causing the timer to run off-schedule. Reset timer to proper time of day.	
<b>Bypass Valves</b> Check to see if they are in the proper position. Bypass Valve, if used, should be in the "Service" position. If hand valves are used, see that inlet and outlet valve are opened and that the bypass valve is closed.	
valve is closed.	
<b>No Water</b> If you aren't getting any water flow at all, make sure your water supply is working. Open a tap ahead of the conditioner (outside tap) to see if you have any water pressure. If you have water pressure, check the bypass valve. If it is in the Service position, put it into the bypass and call your Culligan dealer for service.	
Increased Usage	
Guests, family additions, new water-using appliances, etc., all will result in more water usage and will require more capacity from your conditioner. Call your Culligan dealer for advice.	
Salt Supply	
Check it. Refill if necessary and wait approximately 4 hours for salt to dissolve before initiating a recharge cycle.	
Salt Bridging	
Salt bridging occurs when a space is formed between the salt and the water underneath, preventing the salt from dissolving to make brine. No brine, no soft conditioned water!	
High humidity and/or use of some brands of purified salt products may cause a salt bridge to form.	
The best way to check and eliminate a salt bridging problem is to take a broom handle or similar instrument and make a mark 34 inches from the end. Then carefully begin to probe down through the salt with the instrument. Should an obstruction be found before the mark on your instrument reaches the rim of the salt storage tank, a salt bridge is likely to have formed. Continue to probe and break the salt bridge completely.	
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## Error & Alert Codes

The following error messages may display on both the Control Valve display as well as the Remote Display (if one is connected:)

If the words "**PROBLEM FOUND**" appear on the main screen, it indicates that there are one or more errors detected. Pushing the "**CHECK MARK**" button will display the first error present. Pressing the DOWN arrow will show any additional errors present. At the bottom of this list the user can "**CLEAR THE ERROR**" or "**EXIT**". Pressing the "**CHECK MARK**" button on the "**CLEAR THE ERROR**" message causes the controller to re-check to see if the error condition still exists, if it still exists, the error will remain displayed on the main screen. If the error no longer exists the main menu will return to displaying "**SOFTENING**".

Error Description	Reason for Error	Comment/ Clearing Error Message
Salt Bridging	Brine tank has low concentration of brine	Use a tool to break up any salt bridge inside the brine tank
No Remote RF Signal	Main board is not receiving a signal from the remote	Remote is off, out of range or on a different channel from the main board. If interference is suspected, try moving the remote closer or switching to a different channel on both the main and remote units
Motor Position Error	Motor did not move when it should. No feedback from switches	Use manual motor control to see if motor is actually working and not jammed. Use Diagnostics/ Sensor menu to verify that the optical or mechanical position switches are working
Brine Blocked	The flow rate of brine or water to or from the brine tank is fully or partially blocked	Check brine line for blockages or air leaks. Check eductor and eductor screen for blockages
Replace Filter Media	Total gallons thru the unit has exceeded the specified capacity of the media	Replace the media. Reset the media filter life at Main Menu/ Advanced Setup/Regen Settings/ Media Life
Replace Aux Filter Media	Total gallons thru the secondary filter (i.e. "Big Blue" filter) has exceeded the specified capacity of the big blue	Replace optional filter cartridge. Reset the aux. Filter media life at Main Menu/ Accessories/ Aux Filter menu
Aqua-Sensor Salt Error	Aqua-Sensor did not detect brine during the regeneration cycle	Check brine tank - add salt if necessary. Check Z ratio of the Aqua-Sensor at Main Menu/ Advanced / Diagnostics/ Sensors
Call Culligan at xxx-xxx-xxxx	This message is displayed if an error has been detected that requires servicing and no modem installed in the system	Call the number shown. If possible, place this call using a phone that will allow you to see and enter changes to the main controller if required by the service technician during the call
Position Sensor Error	The motor is turning, but the position sensor appears to be incorrect	Check the motor using manual motor control and the position sensors using Main Menu/ Advanced/ Diagnostics Sensors
xx days salt remaining	This is a prediction of the number of days until it will be necessary to add salt to the brine tank	Salt can be added to the brine tank at any time. It is recommended that the brine tank be filled to approximately 2/3 full.
Low Salt Level	Salt level is low; less than 15 days of salt remaining.	Contact Culligan dealer for salt delivery or fill brine tank with salt.



Error Description Reason for Error		Comment/ Clearing Error Message	
Low Battery	Battery needs replacement	Replace with Panasonic Model# CR 2032 3V battery.	
Brine Overfill	Too much water in brine tank. Plugged drain line flow control (Unit will not draw brine). Plugged eductor system (Unit will not draw brine). Slow leak to brine line. Faulty eductor piston. Power outage while control was in refill position.	Check eductor; check for brine draw. Clean drain line flow control. Clean eductor screen and nozzle Replace eductor piston	
No Refill	Failure to refill brine tank. Refill restrictor plugged. Air in brine line causes float to slam shut.	Clean or replace refill restrictor. Verify all tubing connections are properly assembled.	
AquaSensor	An Aqua-Sensor was " <b>INSTALLED</b> " but main board detects the Aqua-Sensor is not connected.	Check connection of Aqua-Sensor to the main board.	

Error & Alert Codes (Cont.)



# **Bypass**

## When and How to Bypass Your Water Conditioner

Normally, all water except outside lines passes through the water conditioner. There are times when the water conditioner should be bypassed, using the Bypass Valve. You should bypass:

- 1. If lines to outside faucets do not bypass the water conditioner, and you do not want to waste soft water on lawn sprinkling or other outside uses.
- 2. If you are going away on vacation and want to save salt by not having the unit recharge while you're away.

## **Bypass Valve**

To bypass the valve, turn bypass knob on both sides of the valve to bypass position (see figures 13 and 14). When returning to service, put the inlet into service before the outlet.





Culligan Advanced Platinum Plus Series 10" Water Softener with Soft-Minder<sup>®</sup> Meter

Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

MANUFACTURER:	Culligan International Company 9399 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA
	(847) 430-2800

PRODUCT: Culligan Advanced Platinum Plus Series 10" Water Softener with Soft-Minder® Meter

**pH:** 7.6

#### **TESTING CONDITIONS & RESULTS:**

Flow Rate: 14.9 gpm @ 15 psi Pressure: 30 - 40 psi Acidity: Non-Corrosive Temperature: 68° (20°C) Efficiency Rated Dosaget: 4,702 gr/lb

SOFTENER SPECIFICATIONS:

Max. Flow Rate: 14.9 gpm (56.4 Lpm)

**Operating Temp. Range:** 33-125°F (1-50°C)

Working Pressure Range: 20-120 psi (140-860 kPa)

Capacity: 28,210 grains @ 6.0 lb. salt 38,260 grains @ 12.0 lb. salt 45,338 grains @ 18.0 lb. salt



Pressure Drop at Max. Flow Rate: 15 psi (105 kPa) Max. Drain Flow Rate: 1.6 gpm (6.1 Lpm)

Operating Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa)

Name of Substance	USEPA Max. Contaminant Level	рН	Flow Rate	Pressure
Barium	2.0 mg/L	7.5 + 0.5	23.7 gpm	35 + 5 (psig)
Radium 226/228	5pCi/L	7.5 + 0.5	23.7 gpm	35 + 5 (psig)

This system is certified for barium and radium 226/228 reduction based on hardness reduction. It is recommended you test your water every 6 months to ensure the system is performing properly and that hardness, and therefore barium and radium 226/228, are being reduced. Hardness test strips have been included. Additional strips are available from your local Culligan dealer.

The Culligan Advanced Platinum Plus Series 10" Water Softeners with Soft-Minder® Meter are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) and barium/radium 226/228 as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

Refer to the Specifications, Familiarization and Warranty section of this Owner's Guide for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan Man. For parts and service, please call 1-800-Culligan. Performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

† The efficiency rated dosage is only valid at the 6lb. salt dosage and maximum service rate for 10" models, and is efficiency rated according to NSF/ANSI 44.

Buyer Signature \_\_\_\_

Seller Signature \_

Date \_\_

Date -



Culligan Advanced Platinum Plus Series 10" Water Softener with Aqua-Sensor® Sensing Device

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Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

MANUFACTURER:	Culligan International Company 9399 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA
	(847) 430-2800
PRODUCT:	Culligan Advanced Platinum Plus Series 10" Water Softener with Aqua-Sensor® Sensing Device

#### **TESTING CONDITIONS & RESULTS:**

Flow Rate: 14.9 gpm @ 15 psi Pressure: 30 - 40 psi Acidity: Non-Corrosive Temperature: 68° (20°C) Efficiency Rated Dosage†: 4,702 gr/lb

38,260 grains @ 12.0 lb. salt 45,338 grains @ 18.0 lb. salt **pH:** 7.6

Capacity: 28,210 grains @ 6.0 lb. salt



#### SOFTENER SPECIFICATIONS:

Max. Flow Rate: 14.9 gpm (56.4 Lpm) Operating Temp. Range: 33-125°F (1-50°C)

Working Pressure Range: 20-120 psi (140-860 kPa)

Pressure Drop at Max. Flow Rate: 15 psi (105 kPa) Max. Drain Flow Rate: 1.6 gpm (6.1 Lpm) Operating Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa)

Name of Substance	USEPA Max. Contaminant Level	рН	Flow Rate	Pressure
Barium	2.0 mg/L	7.5 + 0.5	23.7 gpm	35 + 5 (psig)
Radium 226/228	5pCi/L	7.5 + 0.5	23.7 gpm	35 + 5 (psig)

This system is certified for barium and radium 226/228 reduction based on hardness reduction. It is recommended you test your water every 6 months to ensure the system is performing properly and that hardness, and therefore barium and radium 226/228, are being reduced. Hardness test strips have been included. Additional strips are available from your local Culligan dealer.

The Culligan Advanced Platinum Plus Series 10" Water Softeners with Aqua-Sensor® Sensing Device are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) and barium/radium 226/228 as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

Refer to the Specifications, Familiarization and Warranty section of this Owner's Guide for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan Man. For parts and service, please call 1-800-Culligan. Performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

<sup>†</sup> The efficiency rated dosage is only valid at the 6lb. salt dosage and maximum service rate for 10" models, and is efficiency rated according to NSF/ANSI 44.

Buyer Signature \_\_\_\_

Date \_\_\_

Seller Signature \_

Date \_\_\_



Culligan Advanced Platinum Plus Series 12" Water Softener with Soft-Minder<sup>®</sup> Meter

Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

MANUFACTURER: Culligan International Company 9399 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA (847) 430-2800

PRODUCT: Culligan Advanced Platinum Plus Series 12" Water Softener with Soft-Minder® Meter

**pH:** 7.6

Capacity: 31,952 grains @ 7.0 lb. salt

53,438 grains @ 16.0 lb. salt

62,941 grains @ 24.0 lb. salt

#### **TESTING CONDITIONS & RESULTS:**

Flow Rate: 19.5 gpm @15 psi Pressure: 30 - 40 psi Acidity: Non-Corrosive Temperature: 68° (20°C) Efficiency Rated Dosaget: 4,565 gr/lb

SOFTENER SPECIFICATIONS:

Max. Flow Rate: 19.5 gpm (73.8 Lpm)

Operating Temp. Range: 33-125°F (1-50°C)

Working Pressure Range: 20-120 psi (140-860 kPa)

#### Pressure Drop at Max. Flow Rate: 15 psi (105 kPa) Max. Drain Flow Rate: 2.9 gpm (11.0 Lpm) Operating Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa)

Name of Substance	USEPA Max. Contaminant Level	рН	Flow Rate	Pressure
Barium	2.0 mg/L	7.5 + 0.5	30.3 gpm	35 + 5 (psig)
Radium 226/228	5pCi/L	7.5 + 0.5	30.3 gpm	35 + 5 (psig)

This system is certified for barium and radium 226/228 reduction based on hardness reduction. It is recommended you test your water every 6 months to ensure the system is performing properly and that hardness, and therefore barium and radium 226/228, are being reduced. Hardness test strips have been included. Additional strips are available from your local Culligan dealer.

The Culligan Advanced Platinum Plus Series 12" Water Softeners with Soft-Minder<sup>®</sup> Meter are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) and barium/radium 226/228 as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

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Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

† The efficiency rated dosage is only valid at the 7lb. salt dosage and maximum service rate for 12" models, and is efficiency rated according to NSF/ANSI 44.

Buyer Signature \_\_\_\_

Date \_\_\_\_\_

Seller Signature \_

Date \_\_\_\_



Culligan Advanced Platinum Plus Series 12" Water Softener with Aqua-Sensor® Sensing Device Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

MANUFACTURER: Culligan International Company 9399 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA (847) 430-2800

PRODUCT: Culligan Advanced Platinum Plus Series 12" Water Softener with Aqua-Sensor® Sensing Device

**pH:** 7.6

Capacity: 31,952 grains @ 7.0 lb. salt

53,438 grains @ 16.0 lb. salt

62,941 grains @ 24.0 lb. salt

#### **TESTING CONDITIONS & RESULTS:**

Flow Rate: 19.5 gpm @ 15 psi Pressure: 30 - 40 psi Acidity: Non-Corrosive Temperature: 68° (20°C)

Efficiency Rated Dosage 1: 4,565 gr/lb

#### SOFTENER SPECIFICATIONS:

Max. Flow Rate: 19.5 gpm (73.8 Lpm)

Operating Temp. Range: 33-125°F (1-50°C)

Pressure Drop at Max. Flow Rate: 15 psi (105 kPa) Max. Drain Flow Rate: 2.9 gpm (11.0 Lpm)

Working Pressure Range: 20-120 psi (140-860 kPa)

Operating Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa)

Name of Substance	USEPA Max. Contaminant Level	рН	Flow Rate	Pressure
Barium	2.0 mg/L	7.5 + 0.5	30.3 gpm	35 + 5 (psig)
Radium 226/228	5pCi/L	7.5 + 0.5	30.3 gpm	35 + 5 (psig)

This system is certified for barium and radium 226/228 reduction based on hardness reduction. It is recommended you test your water every 6 months to ensure the system is performing properly and that hardness, and therefore barium and radium 226/228, are being reduced. Hardness test strips have been included. Additional strips are available from your local Culligan dealer.

The Culligan Advanced Platinum Plus Series 12" Water Softeners with Aqua-Sensor® Sensing Device are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) and barium/radium 226/228 as verified and substantiated by test data.

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Refer to the Specifications, Familiarization and Warranty section of this Owner's Guide for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan Man. For parts and service, please call 1-800-Culligan. Performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

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<sup>†</sup> The efficiency rated dosage is only valid at the 7lb. salt dosage and maximum service rate for 12" models, and is efficiency rated according to NSF/ANSI 44.

Buyer Signature

Date \_\_\_

Seller Signature

Date \_



Culligan Advanced Platinum Plus Series 14" Water Softener with Soft-Minder<sup>®</sup> Meter

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**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

#### MANUFACTURER: Culligan International Company

9399 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA (847) 430-2800

PRODUCT: Culligan Advanced Platinum Plus Series 14" Water Softener with Soft-Minder® Meter

#### **TESTING CONDITIONS & RESULTS:**

Flow Rate: 20.5 gpm @ 15 psi Pressure: 30 - 40 psi Acidity: Non-Corrosive Temperature: 68° (20°C) Efficiency Rated Dosage†: 4,702 gr/lb

SOFTENER SPECIFICATIONS:

Max. Flow Rate: 20.5 gpm (77.6 Lpm)

Operating Temp. Range: 33-125°F (1-50°C) Working Pressure Range: 20-120 psi (140-860 kPa)

#### Capacity: 56,420 grains @ 12.0 lb. salt 76,520 grains @ 24.0 lb. salt 90,676 grains @ 36.0 lb. salt pH: 7.6



Max. Drain Flow Rate: 5.0 gpm (19.0 Lpm)

Operating Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa)

Name of Substance	USEPA Max. Contaminant Level	рН	Flow Rate	Pressure
Barium	2.0 mg/L	7.5 + 0.5	31.2 gpm	35 + 5 (psig)
Radium 226/228	5pCi/L	7.5 + 0.5	31.2 gpm	35 + 5 (psig)

This system is certified for barium and radium 226/228 reduction based on hardness reduction. It is recommended you test your water every 6 months to ensure the system is performing properly and that hardness, and therefore barium and radium 226/228, are being reduced. Hardness test strips have been included. Additional strips are available from your local Culligan dealer.

The Culligan Advanced Platinum Plus Series 14" Water Softeners with Soft-Minder® Meter are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) and barium/radium 226/228 as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

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Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

† The efficiency rated dosage is only valid at the 12lb. salt dosage and maximum service rate for 14" models, and is efficiency rated according to NSF/ANSI 44.

Buyer Signature \_\_\_\_

Date \_\_\_\_\_

Seller Signature \_

Date \_\_\_\_



Culligan Advanced Platinum Plus Series 14" Water Softener with Aqua-Sensor® Sensing Device Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

MANUFACTURER: Culligan International Company 9399 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA (847) 430-2800

PRODUCT: Culligan Advanced Platinum Plus Series 14" Water Softener with Aqua-Sensor® Sensing Device

**pH:** 7.6

Capacity: 56,420 grains @ 12.0 lb. salt

76,520 grains @ 24.0 lb. salt

90,676 grains @ 36.0 lb. salt

#### **TESTING CONDITIONS & RESULTS:**

Flow Rate: 20.5 gpm @ 15 psi Pressure: 30 - 40 psi Acidity: Non-Corrosive Temperature: 68° (20°C)

Efficiency Rated Dosage 1: 4,702 gr/lb

#### **SOFTENER SPECIFICATIONS:**

Max. Flow Rate: 20.5 gpm (77.6 Lpm)

Operating Temp. Range: 33-125°F (1-50°C) Max. Drain Flov

Working Pressure Range: 20-120 psi (140-860 kPa)

Pressure Drop at Max. Flow Rate: 15 psi (105 kPa) Max. Drain Flow Rate: 5.0 gpm (19.0 Lpm)

Operating Pressure	Range (Canada	ı <b>):</b> 20 - 90 psi (140 -	620 kPa)
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Name of Substance	USEPA Max. Contaminant Level	рН	Flow Rate	Pressure
Barium	2.0 mg/L	7.5 + 0.5	31.2 gpm	35 + 5 (psig)
Radium 226/228	5pCi/L	7.5 + 0.5	31.2 gpm	35 + 5 (psig)

This system is certified for barium and radium 226/228 reduction based on hardness reduction. It is recommended you test your water every 6 months to ensure the system is performing properly and that hardness, and therefore barium and radium 226/228, are being reduced. Hardness test strips have been included. Additional strips are available from your local Culligan dealer.

The Culligan Advanced Platinum Plus Series 14" Water Softeners with Aqua-Sensor® Sensing Device are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) and barium/radium 226/228 as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

Refer to the Specifications, Familiarization and Warranty section of this Owner's Guide for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan Man. For parts and service, please call 1-800-Culligan. Performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

<sup>†</sup> The efficiency rated dosage is only valid at the 12lb. salt dosage and maximum service rate for 14" models, and is efficiency rated according to NSF/ANSI 44.

Buyer Signature \_\_\_\_

Seller Signature



Culligan Advanced Platinum Plus Series 16" Water Softener with Soft-Minder<sup>®</sup> Meter

Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

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MANUFACTURER: Culligan International Company 9399 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA (847) 430-2800

PRODUCT: Culligan Advanced Platinum Plus Series 16" Water Softener with Soft-Minder® Meter

**pH:** 7.6

Capacity: 63,904 grains @ 14.0 lb. salt

106,876 grains @ 32.0 lb. salt 125,882 grains @ 48.0 lb. salt

#### **TESTING CONDITIONS & RESULTS:**

Flow Rate: 22.9 gpm @ 15 psi Pressure: 30 - 40 psi Acidity: Non-Corrosive Temperature: 68° (20°C) Efficiency Rated Dosage†: 4,565 gr/lb

SOFTENER SPECIFICATIONS:

Max. Flow Rate: 22.9 gpm (86.6 Lpm)

Operating Temp. Range: 33-125°F (1-50°C)

Working Pressure Range: 20-120 psi (140-860 kPa)

# Pressure Drop at Max. Flow Rate: 15 psi (104 kPa) Max. Drain Flow Rate: 5.5 gpm (21.0 Lpm)

Operating Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa)

Name of Substance	USEPA Max. Contaminant Level	рН	Flow Rate	Pressure
Barium	2.0 mg/L	7.5 + 0.5	34.6 gpm	35 + 5 (psig)
Radium 226/228	5pCi/L	7.5 + 0.5	34.6 gpm	35 + 5 (psig)

This system is certified for barium and radium 226/228 reduction based on hardness reduction. It is recommended you test your water every 6 months to ensure the system is performing properly and that hardness, and therefore barium and radium 226/228, are being reduced. Hardness test strips have been included. Additional strips are available from your local Culligan dealer.

The Culligan Advanced Platinum Plus Series 16" Water Softeners with Soft-Minder® Meter are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) and barium/radium 226/228 as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

Refer to the Specifications, Familiarization and Warranty section of this Owner's Guide for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan Man. For parts and service, please call 1-800-Culligan. Performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

† The efficiency rated dosage is only valid at the 14lb. salt dosage and maximum service rate for 16" models, and is efficiency rated according to NSF/ANSI 44.

Buyer Signature \_\_\_\_

Date \_\_\_\_\_

Seller Signature \_

Date \_\_\_\_



**Culligan Advanced Platinum Plus Series** 16" Water Softener with Aqua-Sensor® **Sensing Device**  Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

Important Notice: Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

MANUFACTURER: Culligan International Company 9399 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA (847) 430-2800

**PRODUCT:** Culligan Advanced Platinum Plus Series 16" Water Softener with Aqua-Sensor® Sensing Device

#### **TESTING CONDITIONS & RESULTS:**

Flow Rate: 22.9 gpm @ 15 psi Pressure: 30 - 40 psi Acidity: Non-Corrosive Temperature: 68° (20°C)

Efficiency Rated Dosage 1: 4,565 gr/lb

#### SOFTENER SPECIFICATIONS:

Max. Flow Rate: 22.9 gpm (86.6 Lpm)

**Operating Temp. Range:** 33-125°F (1-50°C)

'orking Pressure Range: 20-120 psi (140-860 kPa)

Capacity: 63,904 grains @ 14.0 lb. salt 106,876 grains @ 32.0 lb. salt 125,882 grains @ 48.0 lb. salt **pH:** 7.6



# Pressure Drop at Max. Flow Rate: 15 psi (104 kPa)

Max. Drain Flow Rate: 5.5 gpm (21.0 Lpm)

<b>.</b>	-	_		
Working	Pressure	Ranae:	20-120 nsi (140-860 kPa)	

Operating Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa)

Name of Substance	USEPA Max. Contaminant Level	рН	Flow Rate	Pressure
Barium	2.0 mg/L	7.5 + 0.5	34.6 gpm	35 + 5 (psig)
Radium 226/228	5pCi/L	7.5 + 0.5	34.6 gpm	35 + 5 (psig)

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The Culligan Advanced Platinum Plus Series 16" Water Softeners with Aqua-Sensor® Sensing Device are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) and barium/radium 226/228 as verified and substantiated by test data.

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† The efficiency rated dosage is only valid at the 14lb. salt dosage and maximum service rate for 16" models, and is efficiency rated according to NSF/ANSI 44.

Buyer Signature \_\_\_\_

\_ Date \_\_\_\_

Seller Signature \_











**Parts List** 

Head Assembly





# Power Head Assembly

Item No.	No. Req′d	Part No.	Description
1	1	-	Backplate
2,3,4	1	01019693	Backplate Adapter Kit - Includes Backplate Adapter, 4ea Tabs & 4ea Screws
5	3	-	Screw
6	2	-	Screw
7	1	01019650	Lower Support Plate
8&9	1	01019652	Gear Kit - Includes Shaft & Main Drive Gear
10	1	01019649	Upper Support Plate
11	1	01019656	Cam - 5 Pack
12	1	01019648	Motor
13	1	01019743	Screw - 10 Pack
14	1	01019651	Daughter Circuit Board
15	1	01020745	Circuit Board, Main
16	1	01020748	Circuit Board, AUX
17	1	01021970	Front Cover
18	1	01021093	Decal, Front Cover
19	1	P1020498	Keypad - 10 Pack
20 & 21	1	01019657	Auxilliary Switch w/ 2ea Screws (Optional)
*	1	01018133	Transformer
*	1	01021971	Wire Harness, Power/ Cam/ Motor
*	1	01021972	Wire Harness, Meter



**Parts List** 

Valve Assembly





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Valve Assembly

Item No.	No.Req'd	Part No.	Description
1	1	01021595	Control Valve, Assembled
2	1	01019662	Piston Assembly
3	3	01019744	Clip - 10 Pack
4	1	01019665	Seal & Spacer Kit
5	1	01019667	Brine Valve
6	1	01019670	Turbine Meter Assembly
7	1	01019674	Injector Assembly #1
		01019678	Injector Assembly #4
8	1	01019668	Injector Cap w/ O-ring
9	1	01019679	BLFC Assembly, 3/8", 0.25 gpm - Includes Adapter, O-Rings, Flow Control & Retainer
		01019680	BLFC, 1/2", 0.5 gpm - Includes Adapter, O-Rings, Flow Control & Retainer
10	1	01019681	Drain Fitting w/ O-Ring - 5 Pack
11	1	01019682	DLFC, 2.0 gpm - 10 Pack
		01019683	DLFC, 3.5 gpm - 10 Pack
		01019684	DLFC, 5.0 gpm - 10 Pack
		01019685	DLFC, 6.0 gpm - 10 Pack
12	1	01019687	O-Ring, Drain Fitting - 10 Pack
13	2	01019688	O-Ring, Brine Fitting - 10 Pack
14	1	01019689	Clip, Brine Retaining - 10 Pack
15	1	01019690	Clip, Drain Retaining - 10 Pack
16	1	01019691	Injector Screen - 10 Pack
17	1	01019745	O-Ring - 10 Pack
*	1	01014153	Tank Adapter Assembly
*	1	01019669	Meter Cable Assembly
*	1	P1014848	O-Ring, Between Tank Adapter & Control - 10 Pack
*	1	P0440052	O-Ring, Between Tank Adapter & Tank - 10 Pack



**Parts List** 

#### Bypass Assembly



Item No.	No.Req′d	Part No.	Description
1	1	01019718	Bypass Valve Assembly
2	2	01019697	Connector, 1" NPT w/ O-Ring - 5 Pack
2	2	01019698	Connector, 1 1/4" NPT w/ O-Ring - 5 Pack
3	2	01019699	Connector, 1" & 1 1/4" Brass Sweat w/ O-Ring
4	2	01019744	Plastic Clip - 10 Pack
5	2	01019745	O-ring - 10 Pack
*		01019746	Bypass Valve Service Kit (includes all internal parts for bypass asssembly - bypass body not included



Tank Assembly

			3 3 5 6 7	
I	tem No.	Part No.	Description	Qty.
		01-0166-18	Tank Assembly, 10" w/ Fillport, Complete	
		01-0171-92	Tank Assembly, 12" w/ Fillport, Complete, Less Media	
		01-0171-94	Tank Assembly, 14" w/ Fillport, Complete, Less Media	
		01-0171-96	Tank Assembly, 16" w/ Fillport, Complete, Less Media	
		01-0163-52	Tank Assembly, 10" w/o Fillport, Complete	
		01-0171-95	Tank Assembly, 16" w/o Fillport, Complete, Less Media	
		01-0163-50	Tank Replacement, 10", w/ Fillport, Empty	
		01-0165-20	Tank Replacement, 12", w/ Fillport, Empty	
		01-0165-22	Tank Replacement, 14", w/ Fillport, Empty	
Γ		01-0165-24	Tank Replacement, 16", w/ Fillport, Empty	
Γ		01-0163-48	Tank Replacement, 10", w/o Fillport, Empty	
		01-0165-23	Tank Replacement, 16", w/o Fillport, Empty	
	2	P1009847	Top Strainer - Fine Slot, 10 Pack	
		P1011195	Top Strainer - Wide Slot, 10 Pack	1
	3	P1009099	O-ring, Manifold, 50 Pack	1
	4	01-0161-76	Outlet Manifold - 9″	1
	4	01-0145-39	Outlet Manifold - 10"	1
	4	01-0145-40	Outlet Manifold - 12″	1

Outlet Manifold - 14" & 16"

O-ring, Plug and Sensor

Aqua-Sensor® Probe

Plug

4

5

6

7

01-0164-29

01-0174-34

01-0151-22

01-0188-61

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**Brine Systems** 





Brine Valve



ltem	Part No.	Description
-	01-0187-06	Brine Valve
1	01-0187-10	BLFC Elbow - 0.45 gpm
	01-0187-11	BLFC Elbow - 0.8 gpm



**Parts List** 

24" Brine System





Circuit Board Diagram





# **Important Data on Your Water Conditioner** It is advisable to have the salesperson or installer fill in the information below for your future reference. If this has not been done, please ask for it, as it is necessary if you contact your dealer. Identification Model Name \_\_\_\_\_ Catalog No. \_\_\_\_\_ Control Model No. \_\_\_\_\_ Control Serial No. \_\_\_\_\_ Date of Installation \_\_\_\_\_ Tank Serial No. \_\_\_\_\_ **Settings** Salt Setting \_\_\_\_\_ lbs. Time of Recharge: \_\_\_\_\_ a.m. \_\_\_\_\_ p.m. **Upon Demand** (Aqua-Sensor<sup>®</sup> Models) Gallons to signal \_\_\_\_\_ gallons (Soft-Minder<sup>®</sup> models) Total Capacity \_\_\_\_\_ gallons (Soft-Minder<sup>®</sup> Models) Number of people in household \_\_\_\_\_ Tank Size \_\_\_\_\_ inches

## Water Analysis

Total Hardness (gpg)	Total Iron (ppm)	pH (acidity)
Other		

# Records and Data



## Culligan Limited Warranty

#### Culligan Advanced Platinum Plus Series Automatic Water Conditioners

You have just purchased one of the finest water conditioners made. As an expression of our confidence in Culligan International Company products, your water conditioner is warranted to the original end-user, when installed in accordance with Culligan specifications, against defects in material and workmanship from the date of original installation, as follows:

For a period of ONE YEAR	The entire conditioner
For a period of FIVE YEARS	Soft-Minder <sup>®</sup> meter, Aqua-Sensor <sup>®</sup> probe, Remote Display, Modem, and Smart Brine Tank probe if so equipped.
For a period of TEN YEARS	The GBE circuit board, The control valve body, excluding internal parts.
	The salt storage container, brine valve and all its component parts
For the LIFETIME of the original consumer purchaser	The Quadra-Hull™ conditioner tank and the Cullex® resin

If a part described above is found defective within the specified period, you should notify your independently operated Culligan dealer and arrange a time during normal business hours for the dealer to inspect the water conditioner on your premises. Any part found defective within the terms of this warranty will be repaired or replaced by the dealer. You pay only freight from our factory and local dealer charges.

We are not responsible for damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, oxidizing agents (such as chlorine, ozone, chloramines and other related components), alteration, installation or operation contrary to our printed instructions, or by the use of accessories or components which do not meet Culligan specifications, is not covered by this warranty. Refer to the specifications section in the Installation and Operating manual for application parameters.

Our product performance specifications are furnished with each water conditioning unit. TO THE EXTENT PERMITTED BY LAW, CULLIGAN DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE; TO THE EXTENT REQUIRED BY LAW, ANY SUCH IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE ONE-YEAR PERIOD SPECIFIED ABOVE FOR THE ENTIRE CONDITIONER. As a manufacturer, we do not know the characteristics of your water supply or the purpose for which you are purchasing a water conditioner. The quality of water supplies may vary seasonally or over a period of time, and your water usage rate may vary as well. Water characteristics can also differ considerably if your water conditioner is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligations for us. Further, we assume no liability and extend no warranties, express or implied, for the use of this product with a nonpotable water source. OUR OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT OF THE FAILED PARTS OF THE WATER CONDITIONER, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES.

Some states do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Similarly, some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Consult your telephone directory for your local independently operated Culligan dealer, or write Culligan International Company for warranty and service information.

## **Culligan International Company**

9399 West Higgins Road, Suite 1100 Rosemont, Illinois 60018

www.culligan.com



## You Get Your Water Expert, The Culligan Man

We're here to provide you with fast, dependable service, making sure any problems you have are taken care of. The Culligan Man has been around for seventy years, delivery dependable service all along. That's why people say "Hey, Culligan Man!<sup>®</sup>" Because we're the water experts. And that's who you want taking care of your water.

## **The Culligan Promise**

At Culligan, we understand that a water quality improvement system is an investment in your family's well-being. That's why our 1,350 independently operated dealers worldwide don't just sell products; they sell water quality you can count on. We stand behind our products with written limited warranties and our unequaled Culligan service. No matter where you live, you can depend on Culligan expertise to work for you — today and tomorrow.

With Culligan You Get More Than a Quality Product

Iullígan.

better water. pure and simple.™

