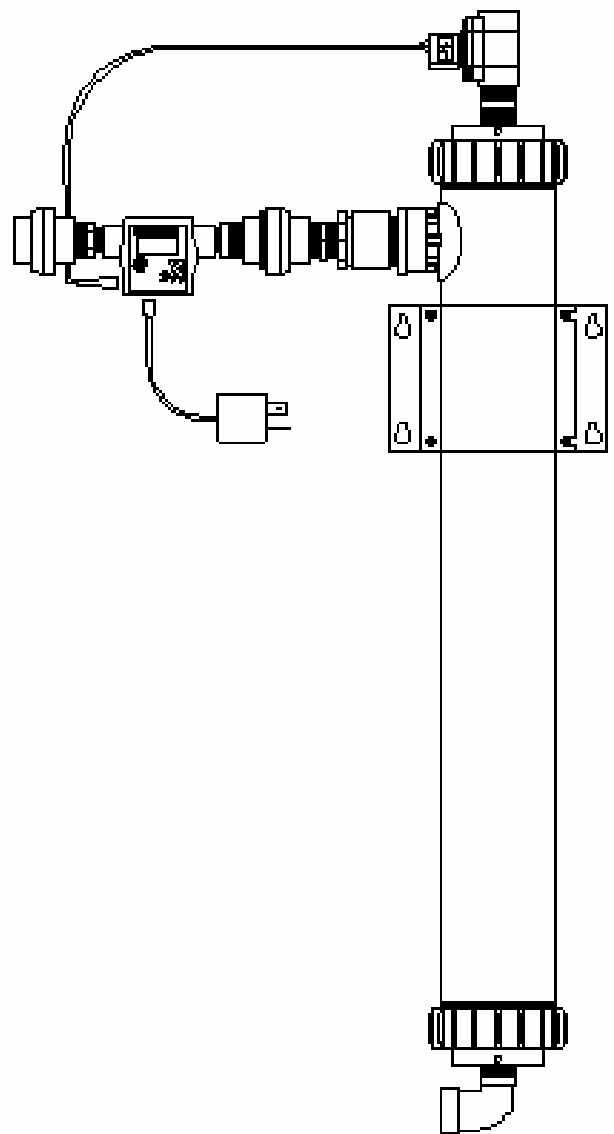
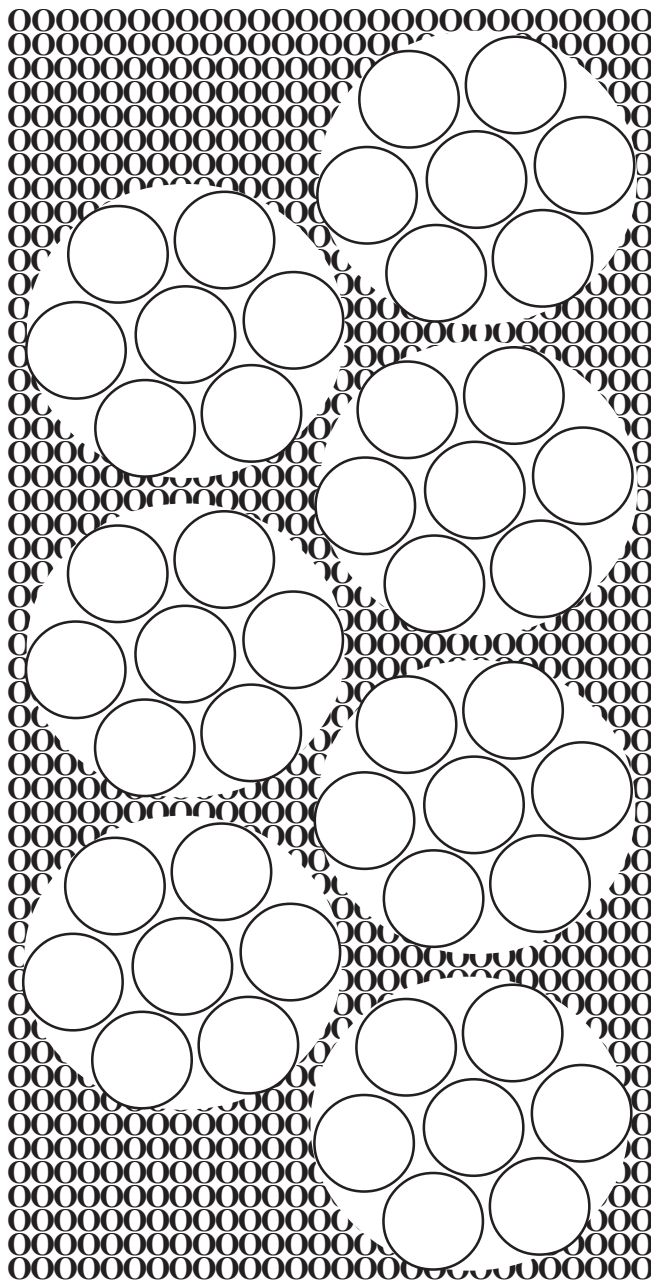


# MODEL AC10 ULTRA FILTER OWNERS MANUAL





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## GENERAL INFORMATION

### GENERAL

This manual provides the safety and operating procedures for the AC10 Whole Home Ultra Filtration Water Treatment System. Aquacore recommends that all information contained in this manual be read prior to operating the system.

Aquacore produces ultra filtration water treatment systems that remove bacteria, cysts, precipitated iron, colloidal clay and algae, and provides a substantial reduction of viruses that may be present in a typical water supply thereby providing maximum water quality for whole house applications.

### WARRANTY INFORMATION

Please read the full text of the Warranty on the last page of this manual.

If the system arrives damaged, contact the carrier immediately and file a damage claim. Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and are not covered under the Warranty.

### SERVICE/TECHNICAL ASSISTANCE

If you experience any problems with the operation of the system, contact your Aquacore Dealer for assistance.



## IMPORTANT SAFETY INFORMATION

Use the following guidelines for safe operation of the system.

- Read all instructions before using the system.
- For your safety, the system is furnished with a low voltage power transformer which is plugged into the household electrical outlet. Do not replace this transformer with another power supply as this may cause damage to the electronics.
- Do not use corrosive chemicals in this system.
- Do not operate this system if it has a damaged cord or plug, if it is not working properly or if it has been damaged or dropped.
- This system should be serviced by qualified personnel only. Contact your Aquacore Dealer for repairs and service.
- Do not immerse the cord or plug in water.
- Keep the cord away from heated surfaces.
- **WARNING-ELECTRICAL SHOCK HAZARD.**  
Failure to follow the following instructions could result in serious injury:
  - Do not modify the power supply cord. If it does not fit the outlet, have a suitable outlet installed by a qualified electrician.
  - Do not use an extension cord with this system.

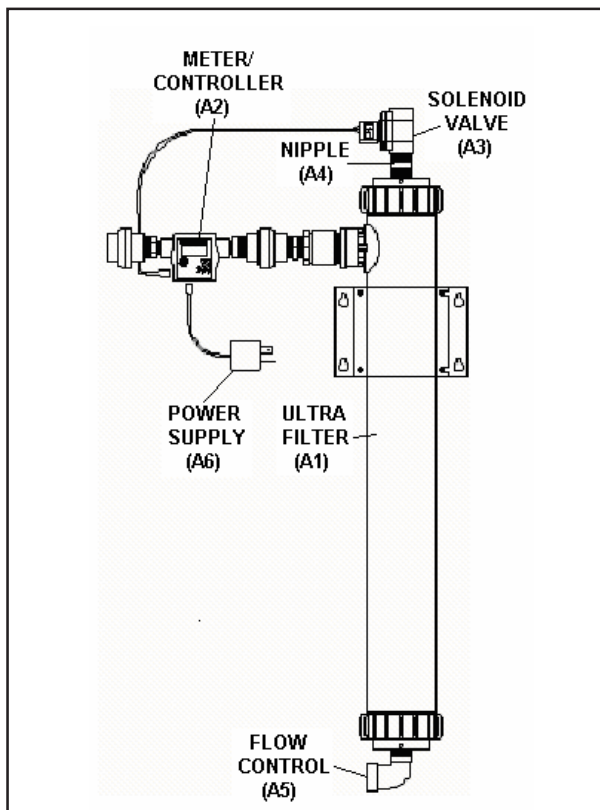
**SPECIFICATIONS**
**POWER TRANSFORMER**

Input	Description	Output
120 VAC 50/60 Hertz	Power Transformer	12 VDC - 1 Amp

**IMPORTANT**

Aquacore reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for a previously purchased system.

**Figure 1. Components**


**SPECIFICATIONS (FILTER CARTRIDGE)**

Recommended Operating Pressure ..... 50 psi (3.45 bar)  
 Maximum Operating Pressure ..... 75 psi (5.0 bar)  
 Maximum Operating Temperature ..... 104°F (40°C)  
 Maximum Operating Differential Pressure .. 45 psi (3.1 bar)  
 pH Range ..... 3-10  
 Molecular Weight Cut-Off (MWCO) .. 100 kD (kilodalton)  
 Maximum Sanitizing Temperature ..... 176°F (80°C)  
 Flow Regulated ..... to 10 gpm (45.5 lpm)

**NOTE**

If pressure exceeds 75 psi (5.0 bar), a pressure regulator should be installed and set for 50 psi (3.45 bar).

**PARTS LIST**

**Replacement Parts for the AC10 Ultra Filtration Water Treatment System (Refer to Figure 1 for the Letter Designation associated with each component).**

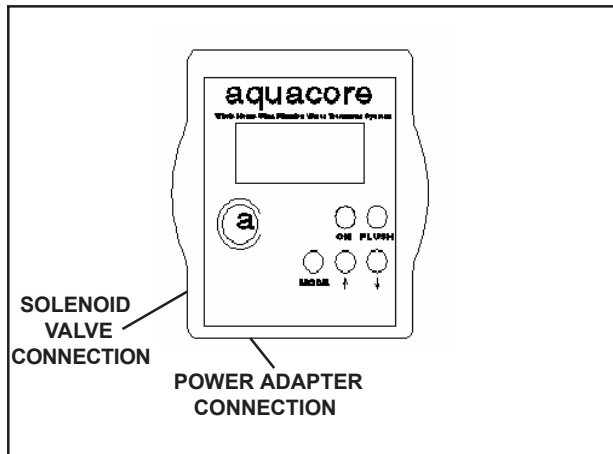
The following components are **supplied** by Aquacore as part of the AC10 Ultra Filtration Water Treatment System:

- A1---AC10 Ultra Filter Cartridge Assembly---Part Number 50-6530
- A2---Meter /Controller with Unions---Part Number 50-6520
- A3---Solenoid Valve with Electrical Lead---Part Number 50-6500
- A4---3/4" NPT Hexagon Nipple---Part Number 64-2621
- A5---1" NPT Street Elbow with Internal Flow Control---Part Number 50-6501
- A6---120 VAC to 12VDC Power Supply---Part Number 69-2156

## OPERATION

### Programming the Meter/Controller

1. Refer to figure 2 for the location of the meter/controller controls and indicators.



**Figure 2. Meter/Controller Controls and Indicators**

2. Press and hold the MODE power button until **PGM MODE** is displayed on the LCD screen; then release. Upon release, **CYCLE GAL:** with a numerical value will appear on the LCD screen.
3. Refer to the “Recommended Meter Settings” chart on page 6 for the suggested meter/controller settings.
4. Press the ↑ (up arrow) button or the ↓ (down arrow) button to change to the correct gallon setting. Press and release the MODE button.
5. **FLUSH SECS** will appear on the screen. Press the ↑ (up arrow) or ↓ (down arrow) until the appropriate time setting is reached.
6. Press and release the MODE button once.
7. The meter is now programmed for your water supply.

#### NOTE

Field tests have shown that flushing more often for shorter periods of time prolongs the life of the membranes better than flushing less often for longer periods of time.

#### NOTE

Regardless of when the last programmed flush occurred, or the volume of water processed (see the “Recommended Meter Settings” Table), if the number of gallons programmed into the meter/controller is not used during any 24 hour period, the system will automatically flush for 10 seconds to maintain fresh water in the system.

### Sanitizing the System and Lines

The system, including all plumbing, must be sanitized to eliminate possible contamination at least once a year. Chlorine bleach can be used to sanitize the complete system. The amount of bleach used depends on the quantity of plumbing installed downstream of the filter system. Generally, one ounce of bleach is sufficient to sanitize the complete system. Use the following sanitizing procedure:

1. Open all the taps/faucets downstream of the filtration system and close the water inlet valve; allow the system to depressurize.

#### NOTE

If a post carbon filter is being used, remove the cartridge before flushing the system with chlorine bleach.

2. When the water flow stops, open the prefilter, drain the sump and pour the liquid bleach (1 ounce) into the prefilter sump. Be careful not to spill bleach onto clothing or skin. Replace the prefilter cartridge and reattach the prefilter sump.
3. Slowly open the water inlet valve. Allow water to flow out of all the taps/faucets until the smell of bleach is present.
4. Close all the taps/faucets and allow the system to stand without water flow for at least 15 minutes permitting the bleach to sanitize the piping.
5. After 15 minutes without water flow, open all taps/faucets and flush until the presence of bleach is gone. Close all taps/faucets to complete the sanitation process.

## RECOMMENDED METER SETTINGS

*RECOMMENDED METER SETTINGS - AQUACORE MODEL AC10 - WHOLE HOUSE ULTRA FILTRATION					
WATER SOURCE	WATER CONDITION	***NTU	START-UP METER CONTROL SETTINGS		
			OPTIONAL EQUIPMENT	WATER USAGE TO FLUSH POINT	FLUSH CYCLE TIME
MUNICIPAL WATER	BACTERIA PARASITES	LESS THAN 1	**CARBON FILTER	300 GALLONS	15 SECONDS
WELL WATER	TURBIDITY SUSPENDED CLAY SUSPENDED SILICA	LESS THAN 1		200 GALLONS	15 SECONDS
		GREATER THAN 1	PERMEATE TANK - ASSIST BACKFLUSH	100 GALLONS	30 SECONDS
SURFACE WATER LAKE POND STREAM	PRECIPITATED IRON AND MANGANESE	LESS THAN 1		300 GALLONS	20 SECONDS
		GREATER THAN 1	PERMEATE TANK	200 GALLONS	30 SECONDS
FACTORY SETTINGS	CYSTS ALGAE	LESS THAN 1		200 GALLONS	20 SECONDS
		GREATER THAN 1	PERMEATE TANK	100 GALLONS	30 SECONDS
PREPROGRAMMED NO FLOW' SETTING				300 GALLONS	100 SECONDS
				24 HOUR	10 SECONDS

\* BASED ON FIELD TESTING EXPERIENCE - SETTINGS MAY VARY WITH SPECIFIC WATER CONDITIONS  
 \*\* RECOMMEND CARBON FILTER FOR TASTE AND ODOR IMPROVEMENT IF THIS IS A PROBLEM WITH INCOMING WATER  
 \*\*\* NTU - MEASUREMENT SCALE OF TURBIDITY (CLARITY)  
 IF FLOW RATE SEEMS TO DROP OVER TIME WITH INITIAL SETTINGS, DECREASE GALLONS TO FLUSH AND/OR INCREASE FLUSH TIME

7/14/2005

## TROUBLESHOOTING

TROUBLE	PROBABLE CAUSE	REMEDY
System does not have power.	Power cord is not correctly plugged in.	Plug power cord in correctly and check house circuit breaker/ fuse or GFI.
Meter/Controller LCD display is blank.	Power cord is not correctly plugged in.	Plug power cord in correctly and check house circuit breaker/ fuse or GFI.
	Meter/Controller control board inoperable.	Contact authorized service agent.
	Power transformer inoperable.	Replace power transformer.
No water discharges from system.	Inlet valve closed.	Open inlet valve.
	Inlet strainer/pre-filter is plugged.	Clean/replace strainer/pre-filter.
	End of capillaries obstructed.	Clean/replace strainer/pre-filter and flush system.
Low pressure/water flow discharges from system.	See “No water discharges from system.”	See “No water discharges from system.”
	System in flush cycle.	Wait for flush cycle to end.
	Flush cycle not set correctly for water conditions.	Decrease gallon usage setting so system flushes more often or add a flush tank to permeate water to aid in flushing process.
	Solenoid valve stuck open.	Repair/replace solenoid valve.
	Inlet water pressure too low.	Increase inlet water pressure to maximum 50 psi (3.45 bar).
Water tastes bad.	Storage/shipping solution not completely flushed out of system.	Flush system for a longer period of time.
	Biological growth in piping.	Sanitize system.
	Water conditions changed.	Consider installing a carbon filter for taste and odor control.
	Broken capillary in filter unit.	Replace filter unit.
Flush runs continuously.	Solenoid valve stuck open.	Repair/replace solenoid valve.
	Meter/Controller sending improper signal to solenoid valve.	Recheck meter/controller settings and reset, or repair/replace if required.
Flush runs too long.	Flush duration set too long.	Reprogram flush cycle for a shorter period of time.

### TROUBLESHOOTING (Continued)

TROUBLE	PROBABLE CAUSE	REMEDY
Water splashes at drain during flush.	Drain line not positioned properly or too small a drain.	Reposition end of drain line or change to a larger drain size.
Water leaks from system fitting.	Fitting broken or loose.	Retighten/replace fitting.
	Not enough pipe thread sealant used.	Redo the connection with proper amount of thread sealant.

### WARRANTY

Equipment manufactured by Aquacore has been constructed of the finest materials available and manufactured to the highest quality standards. This unit is warranted to be free from mechanical and electrical defects for a period of one year from date of purchase or 18 months after shipment from the factory, whichever occurs first, under normal use and service, and when installed in accordance with the manufacturer's recommendations. To ensure continued proper operation of the system, follow the maintenance procedure outlined in this Owners Manual.

1. This warranty does not cover cost of installation, defects caused by improper storage or handling prior to placement of the system into service. The warranty does not include overtime charges or work done by unauthorized service agencies or personnel. This warranty does not cover normal maintenance, calibration or regular adjustments as specified in the operating and maintenance instructions in this manual, and/or labor involved in moving adjacent objects to gain access to the system components. This warranty does not cover consumable items such as filtration membranes. This warranty does not pay travel, mileage, or any other charges for an authorized service agency to reach the system location.
2. Aquacore reserves the right to make changes in design or add improvements on any product. The right is always reserved to modify equipment because of factors beyond its control and government regulations. Changes to update equipment do not constitute a warranty charge.
3. If shipment is damaged in transit, the purchaser should make a claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives and visible damage should be noted upon the carrier's receipt. Damage should be reported to the carrier. This damage is not covered under this warranty.
4. Warranty charges do not include freight or foreign, excise, municipal or other sales or use taxes. All such freight taxes are the responsibility of the purchaser.
5. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EACH OF WHICH IS HEREBY EXPRESSLY DISCLAIMED. THE REMEDIES DESCRIBED ABOVE ARE EXCLUSIVE AND IN NO EVENT SHALL AQUACORE BE LIABLE FOR SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OR DELAY IN PERFORMANCE OF THIS WARRANTY.

**Authorized Acquacore Dealer**

