

System Set Up Instructions

CW-840-PB Contaminant Reduction System



For the Reduction of:

Lead
PFOA / PFOS
Cysts

CONTAMINANT REDUCTION SYSTEM REQUIREMENTS

In order to qualify as a "certified" contaminant reduction system, a water treatment system must meet the requirements set forth on the proceeding pages. Water-Right has certified the individual components of the system outlined below. To complete the system, the installing dealer must follow some simple guidelines.

- Proper Installation of an accompanying, qualifying certified softener or backwashing filter equipped with a service alarm. In a contaminant reduction system, this unit is referred to as a Performance Indicating Device (PID). A PID must be able to meter the amount of water flowing through the unit as well as alarm once the capacity of the unit has been reached (See the service alarm section for more details). On Water-Right controllers, the term "Service Alarm" has been used in lieu of "Performance Indicating Device". Both terms refer to the same component in a contaminant reduction system and are used interchangeably.
- If a PID (service alarm) is not installed on the accompanying equipment, the CT-05-CB-AMCY-IO cartridge is only certified to 50,000 gallons. It will be required to change out the cartridge more frequently.
- Proper installation of the ONE cartridge tank in which the contaminant reduction cartridge filter (cartridge filter model No. CT-05-CB-AMCYL-IO) is installed into.
- Proper setting of the service alarm (PID).
- Proper labeling of the cartridge tank.

PERFORMANCE INDICATING DEVICE (PID)

To qualify as a certified contaminant reduction system to 100,000 gallons, the ONE cartridge tank must be installed with a contaminant reduction cartridge and a PID. This device is used to notify the user of cartridge life and to signal when a cartridge needs to be replaced.

Water-Right has taken additional steps and certified the meter of its softeners and backwashing filters for this use. Any softener or backwashing filter manufactured by Water-Right using our 1" meter that incorporates the service alarm feature satisfies the PID requirement of certification. This certification is specific to Water-Right manufactured products and our 1" meters. Please consult Water-Right's customer service department for any questions regarding this requirement.

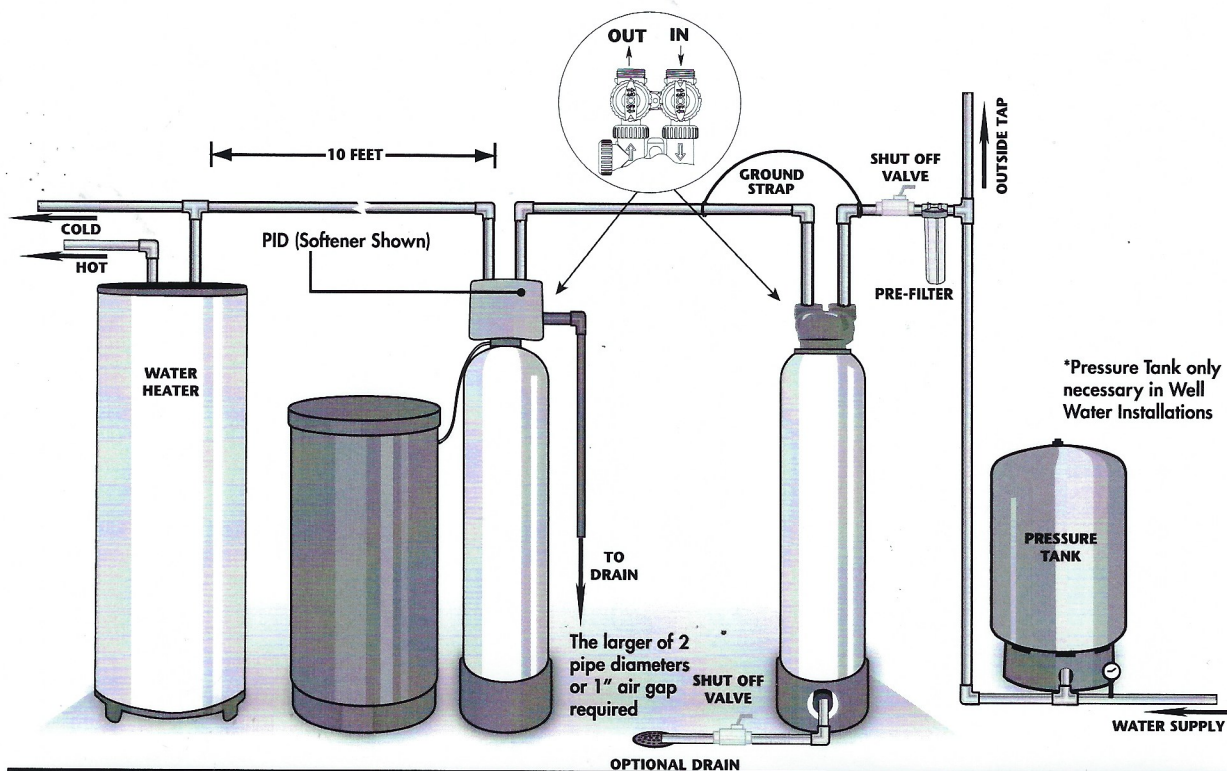
INSTALLATION

Installation of the ONE filter housing must be installed in conjunction with a qualifying softener and/or backwashing filter. Please refer to the installation manual included with the ONE filter housing. Without the qualifying softener or backwashing filter, the system is not certified.

Installation instructions of the qualifying softener or backwashing filter is specific to those models. Refer to the appropriate installation and service manuals included with that unit.

The ONE cartridge tank may be installed pre or post softener or backwashing filter. However, it is necessary to make sure that all treated water through the ONE cartridge is metered through the PID. In municipal applications, it is most likely that the ONE filter housing with a contaminant reduction cartridge will be used prior to a softener. Please reference the installation diagram below.

NOTE: On waters that are turbid or where the quality is in question, it may be necessary to install a pre-filter before the contaminant cartridge system to protect the life of the cartridge (See contaminant reduction installation diagram below). Turbidity may prematurely plug the cartridge before its 100,000 gallon contaminant reduction rating. This may cause a low pressure drop before the rated contaminant capacity is achieved. Installing an additional ONE cartridge filter or a Big Blue dual gradient (25 to 1 micron) sediment filter will enhance the life of the contaminant cartridge. Water-Right is not responsible for decreased performance due to pressure drops.



CONTAMINANT REDUCTION INSTALLATION

In well water applications it may be necessary to deploy the ONE cartridge tank with a contaminant reduction cartridge after a qualifying backwashing filter. This is to protect the lifespan and capacity of the contaminant reduction cartridge.

NOTE: It is necessary that all treated water from the ONE cartridge tank flows though the meter of the associated unit. This is to ensure proper recording of gallons used through the meter.

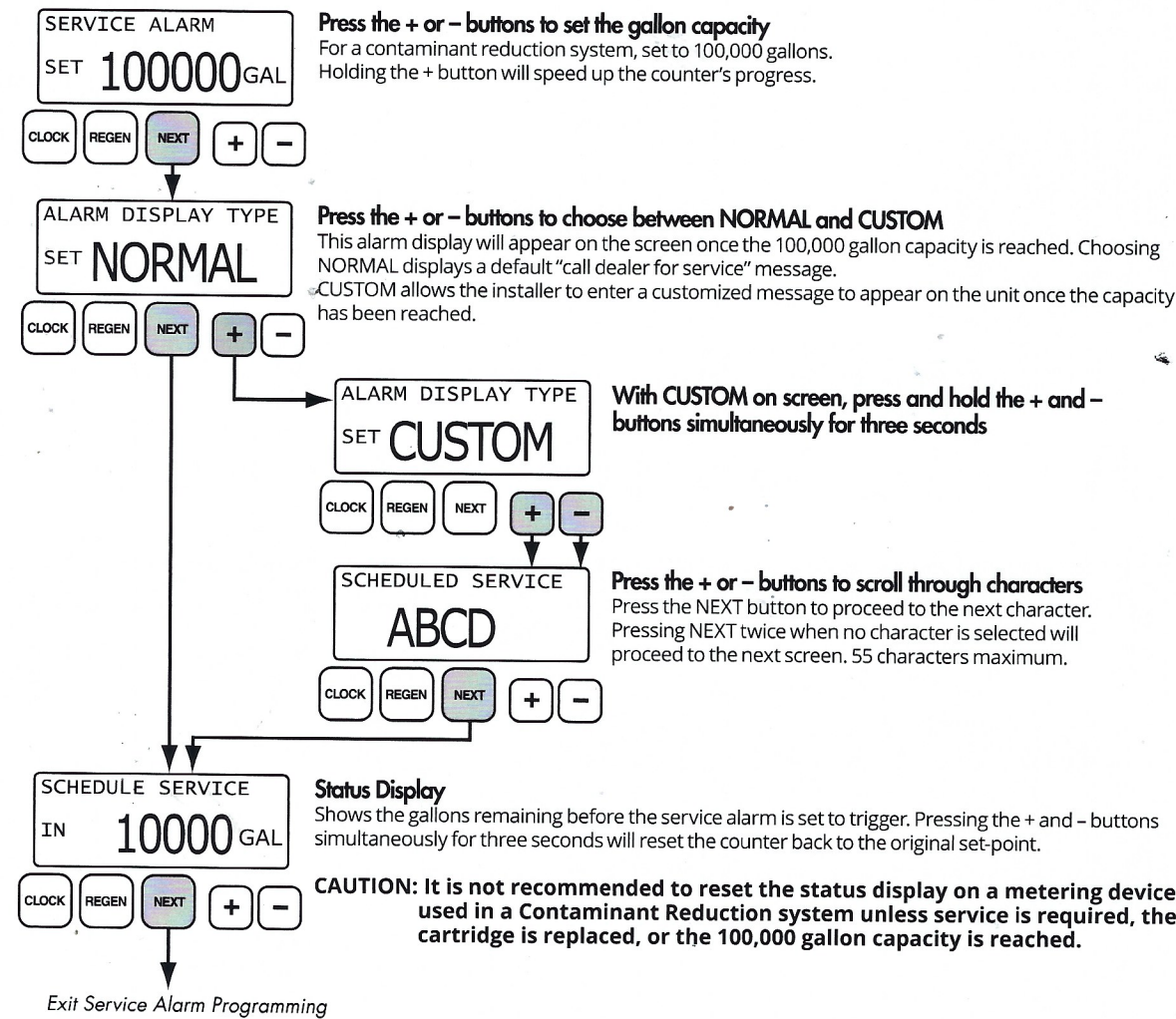
SERVICE ALARM

The service alarm on the qualifying softener or backwashing filter must set to 100,000 gallons. This indicates the life of the cartridge. Once 100,000 gallons has been reached, the controller will display a "Call Dealer For Service" message on the display of the controller along with an audible alarm on some models. After triggering, the audible alarm may be turned off by pushing any button on the front of the controller. This will only disable the audible portion of the alarm. The display will continue to display "service is required".

Call servicing dealer for cartridge replacement and to reset the service alarm.

SETTING SERVICE ALARM FOR CONTAMINANT REDUCTION SYSTEM

Setting the service alarm is mandatory in order to fulfill the certification requirements. This may be accomplished by consulting the installation manual or master programming guide for units equipped with service alarms. The service alarm should be set and reset once replacement has been performed.

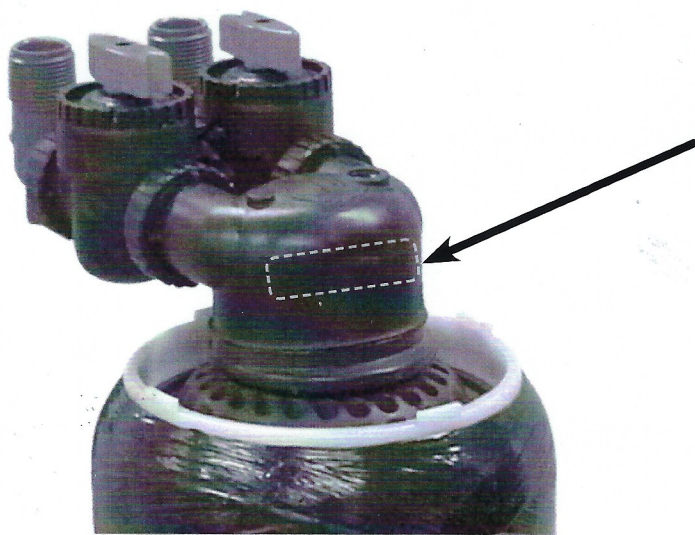


LABELING

A certified contaminant reduction system is comprised of a ONE cartridge tank, a contaminant reduction cartridge (CT-05-CB-AMCYL-IO), and a qualifying softener or filter with a PID.

This certification is recognized by a certification label placed on the front of the IN/OUT head as shown below. This label part number (CW-840-PB) may only be used with a certified system that meets all of the listed requirements.

The labeling consists of the model number of the system, a certification statement, the replacement cartridge model number, and information that is specific to the system.



**CW-840-PB**

A.O. Smith Water Treatment (North America), Inc.
1900 Prospect Ct. • Appleton, WI 54914

This product has been certified by IAPMO R&T according to NSF/ANSI 53 for lead and cyst reduction and NSF P473 for PFOA/PFOS reduction.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts. Please refer to the owner's manual for proper maintenance and operation. If this device is not maintained and operated as specified in the owner's manual, there is a risk of exposure to contaminants. For more information, visit the manufacturer's website at www.water-right.com or California State Water Resource Control Board's website at www.waterboards.ca.gov

TEMPERATURE: Max: 120F Min: 34F
PRESSURE: Max: 120psi Min: 20psi
REPLACEMENT FILTER: CT-05-CB-AMCYL-IO

The system is deemed certified once all of the preceding requirements have been met. On initial setup, upon verifying all requirements have been met, the included label must be placed on the IN/OUT head in the position shown above. It is not required to re-label the system when performing service.

This system has been tested according to NSF/ANSI 53 or NSF P473 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in the standards. Minimum substance reductions per NSF/ANSI 53 and P473 are as follows

SPECIFICATIONS

CW-840-PB

Contaminant	Rated Flow	Pressure Drop (PSI)	Capacity (Gallons)	Influent Challenge Water	Max Allowed in Effluent Water	Average Percent Reduction (%)	Peak Flow/ Capacity
Lead	4.51 GPM	9.0	100,000	0.15 +/- 10% mg/L	0.01 mg/L	99.62	8 GPM/ 88,000 GAL
PFOA/PFOS	4.51 GPM	9.0	100,000	1.5 +/- 10% ug/L	0.07 ug/L	98.18	
Cyst	4.51 GPM	9.0	100,000	Min 50,000 / L	-	99.95	
Minimum Operating Temperature		Maximum Operating Temperature		Minimum Operating Pressure		Maximum Operating Pressure	
34F / 1C		120F / 50C		20psig / 1.38 bar		125psig / 8.6 bar	
Filter Replacement Operating Instructions: New cartridges must be flushed for a minimum of 10 minutes prior to use. System and installation to comply with state and local laws and regulations. Manufactured from NSF/ANSI standard 61 and California Prop 65 Compliant certified coconut shell carbon and raw materials.							

PERFORMANCE

This system conforms to NSF/ANSI 53 and NSF P473 for the specific performance claims verified and substantiated by test data. Performance claims are based on independent lab results. Actual performance is dependent on influent water quality, flow rates, system design, and applications. Your results may vary. Performance claims are based on a complete system including a filter, housing, and connection to a pressurized water source. This filter must be operated according to the system's specifications in order to deliver the claimed performance. It is essential to follow operational, maintenance, and filter replacement requirements as directed. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users' water.