IRONRIVAL

5800XTR2 SERIES

OWNER'S MANUAL & INSTALLATION GUIDE



PLEASE READ THIS MANUAL CAREFULLY BEFORE
ATTEMPTING INSTALLATION. FAILURE TO FOLLOW THESE
INSTRUCTIONS MAY AFFECT THE PERFORMANCE OF YOUR
SYSTEM, VOID YOUR WARRANTY, AND RESULT IN
PROPERTY DAMAGE

Congratulations on the purchase of your Iron Rival 5800XTR2 Series water treatment system. You have purchased one of the finest iron treatment systems on the market today. The Iron Rival system uses a multi-faceted treatment process consisting of a combination of aeration, oxidation, and filtration. In addition to reducing/removing iron and sediment, depending on the choice of media, certain Iron Rival systems can be used to remove manganese, and hydrogen sulfide as well. This system may also be used for other water treatment purposes as directed by your water treatment technician/ dealer.

This manual is designed to provide owners, installers, and service technicians with detailed information about the installation, start-up, and operation of your new filter system.

The brains of your Iron Rival system is the Fleck 5800 control valve with XTR2 controller. This valve has been specifically modified to be used as an "Air Injection Oxidizer" or AIO system. It is manufactured by one of the world's largest water treatment companies. The control valve is well respected for its reliability, serviceability, simple operation, and value. The integrated touch screen controller offers unsurpassed simplicity of operation and complete control over all important valve operations. You can rest assured that you have made a solid investment in the quality of your water supply!

Several choices of filter media are offered with Iron Rival systems, each with their own unique advantages and capabilities. Regardless of the media selected for your project, your Iron Rival water treatment system is designed to offer many years of low maintenance operation. The control valve will perform regular backwash and regeneration functions automatically. For your convenience, your system has been pre-programmed at the factory. Should you need to change any of the settings, simply following the instructions provided in this manual. We recommend that settings only be adjusted after consultation with your water treatment technician / dealer.

IMPORTANT SAFETY SYMBOLS



Hazards or unsafe practices that may result in personal injury and/or severe property damage.



Hazards or unsafe practices that may cause operational problems with your water treatment system.

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GENERAL WARNINGS



Do not allow children or pets to play on or around the water filter.

Do not install or store this filter system where it will be exposed to the freezing temperatures.

Do not tamper with controls.

Do not repair, replace, or attempt to service any part of the system unless specifically instructed to in this manual <u>and</u> you have the understanding, tools, and skills necessary to carry out the procedure.

Packing materials can be dangerous to children. Keep all packing material (plastic bags, polystyrene, boxes, etc.) well out of children's reach.

Individual components of this water treatment system, and the installed system, are heavy. Precautions should be taken to prevent personal injury or strain. Do not move heavy components without assistance if you are not physically capable of safely carrying out the procedure.

If the water treatment system is to be left unattended for an extended period of time (vacation, etc.), we strongly recommend that you turn off the water supply to the system, or the whole house, while you are away.

If your water pipes are metal (galvanized or copper), they may be used to ground electrical systems, appliances, or your phone line. If this is the case, be sure to install regulation ground clamps to the metal pipe on each side of the control valve and connect a jumper wire between the 2 clamps (#4 gauge solid copper wire recommended). Consult a certified electrician or plumber if you are unsure.

OPERATING CONDITIONS

The following chart provides guidance on the conditions required for successful operation of your Iron Rival system.



USE OF THIS EQUIPMENT OUTSIDE OF THESE OPERATING CONDITIONS MAY ADVERSELY AFFECT THE PERFORMANCE OF YOUR SYSTEM, RESULT IN SYSTEM DAMAGE INCLUDING WATER LEAKS AND CORRESPONDING PROPERTY DAMAGE, AND MAY VOID YOUR WARRANTY.

Minimum Water Pressure	20 PSI		
Maximum Water Pressure		90 PSI*	
Recommended Water Pressure		40-70 PSI	
Water Temperature	36	F to 100F (2 to 38	C)
Minimum Air Temperature		32°F (0°C)**	
pH Range	5.0*** to 9.0		
Media Option	Filox	Katalox Light	Birm
pH Range	6.0*** to 9.0	6.0*** to 9.0	6.8*** to 9.0
Maximum Iron	15 ppm (mg/l)	7 ppm (mg/l)	3 ppm (mg/l)
Maximum Manganese	3 ppm (mg/l) 1 ppm (mg/l) Discuss w/ Deale		Discuss w/ Dealer
Maximum Hydrogen Sulfide	7 ppm (mg/l)	2 ppm (mg/l)	Not Recommended
Maximum Total Organic Carbon (TOC)	3 ppm (mg/l)	3 ppm (mg/l)	3 ppm (mg/l)

^{*} While the Iron Rival system is built to withstand pressures exceeding 90 PSI, if your water pressure is greater than 70 PSI, we recommend that you have a certified plumber install a pressure reduction valve ahead of the Iron Rival system.

^{***} pH correction is strongly recommended where pH levels are less than 7.0 to prevent damage to your plumbing system, and to prevent leaching of metals from copper and brass plumbing components and solder in your home. Contact your dealer for recommendations. A pH level of 7.5 or higher is strongly recommended for manganese removal.



CONFIRM THAT YOUR WATER CONDITIONS, SERVICE FLOW RATE NEEDS, AND AVAILABLE BACKWASH FLOW RATES MEET THE NOTED SPECIFICATIONS FOR THE MODEL YOU ARE INSTALLING BEFORE STARTING THE INSTALLATION PROCESS. IF IN DOUBT, CALL YOUR DEALER FOR ADVICE. INSTALLED UNITS CANNOT BE RETURNED.

^{**} The system cannot be subjected to freezing conditions or severe damage to the system and your property could occur.

Iron Rival w/ Filox Media Service Flow Rates & Backwash Requirements:

	Optimal Service	Maximum	Backwash Flow	Backwash Flow
Model	Flow Rate*	Service Flow	Rate at 40F Water	Rate at 70F Water
	(GPM)	Rate* (GPM)	Temp (GPM)	Temp (GPM)
IR-5800XTR2-8-F	4	5	4.5	6
IR-5800XTR2-9-F	6	7.5	6	7
IR-5800XTR2-10-F	8	10	7	9
IR-5800XTR2-12-F	12	15	10	12
IR-5800XTR2-13-F	16	20	12	15
IR-5800XTR2-14-F	20	25	15	20

Iron Rival w/ Katalox Light® Media Service Flow Rates & Backwash Requirements:

	Optimal Service	Maximum	Backwash Flow	Backwash Flow
Model	Flow Rate*	Service Flow	Rate at 40F Water	Rate at 70F Water
	(GPM)	Rate* (GPM)	Temp (GPM)	Temp (GPM)
IR-5800XTR2-8-KL	2.8	4.2	2.7	3.5
IR-5800XTR2-9-KL	3.5	5.3	3.5	4.5
IR-5800XTR2-10-KL	4.4	6.5	4.5	6
IR-5800XTR2-12-KL	6.3	9.4	7	8
IR-5800XTR2-13-KL	7.4	11.1	8	9
IR-5800XTR2-14-KL	8.6	12.8	9	10

Iron Rival w/ Birm Media Service Flow Rates & Backwash Requirements:

	Optimal Service	Maximum	Backwash Flow	Backwash Flow
Model	Flow Rate*	Service Flow	Rate at 40F Water	Rate at 70F Water
	(GPM)	Rate* (GPM)	Temp (GPM)	Temp (GPM)
IR-5800XTR2-8-B	2.4	3.5	3.5	4
IR-5800XTR2-9-B	3.1	4.4	4.5	5
IR-5800XTR2-10-B	3.8	5.5	6	6
IR-5800XTR2-12-B	5.5	7.9	8	9
IR-5800XTR2-13-B	6.5	9.2	9	12
IR-5800XTR2-14-B	7.5	10.7	10	12

^{*}Service flow rates are based on the iron, manganese, and hydrogen sulfide levels not exceeding 75% of the stated maximum levels above. Reduce service flow rate expectations as contaminant levels rise above this threshold, particularly if they are approaching the stated maximum levels.

INSTALLATION

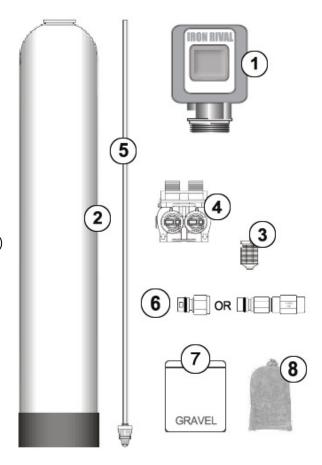


WE RECOMMEND THAT YOU READ THIS ENTIRE MANUAL BEFORE COMMENCING THE ACTUAL INSTALLATION. WHILE WE RECOMMEND THAT A WATER TREATMENT PROFESSIONAL OR LICENSED PLUMBER PERFORM ALL INSTALLATION WORK, A MECHANICALLY-INCLINED HOMEOWNER WITH SUITABLE PLUMBING KNOWLEDGE CAN INSTALL THIS SYSTEM. IN ALL CASES, IT IS CRITICAL THAT THE INSTALLATION BE DONE IN ACCORDANCE WITH THESE INSTRUCTIONS AND ALL APPLICABLE PLUMBING AND ELECTRICAL CODES. BE SURE TO OBTAIN ALL REQUIRED PERMITS. IF THESE INSTRUCTIONS AND THE APPLICABLE CODES ARE IN CONFLICT, THE RELEVANT PLUMBING/ELECTRICAL CODE SHALL BE FOLLOWED. EQUIPMENT FAILURE, PERSONAL INJURY, OR PROPERTY DAMAGE CAN RESULT IF THIS EQUIPMENT IS NOT INSTALLED PROPERLY.

Step 1. - Pre-Installation Inspection

Inspect all of the components that you received with your unit. You should have received the following:

- 1. Fleck 5800XTR2 Control Valve with Plug-In Transformer
- 2. Media Tank
- 3. Upper Screen
- 4. Bypass Assembly w/ 1" NPT Connector Yoke
- 5. Riser Tube and Lower Distributor
- 6. Drain Line Flow Control (may be attached to #1)
- 7. Bag(s) or Box(es) of Filter Media
- 8. Bag or Box of Gravel (may be packaged under the tank)



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Step 2. - Selecting an Installation Location

While exterior installation in warm climate areas is possible, we strongly recommend interior installation only. The system cannot be allowed to freeze or severe system damage could occur. The system should not be exposed to rain and it should not be installed in direct sunlight as long-term exposure to UV light could damage components of the system. Furthermore, direct sunlight could raise the internal water temperature in the treatment tank and reduce backwash effectiveness.

In most cases, the Iron Rival should be located AFTER the pump and pressure tank. Unless otherwise directed by your water treatment technician or dealer, the Iron Rival should be installed AFTER any <u>backwashable</u> turbidity/sediment filters, and BEFORE most other forms of treatment including cartridge filters, water softeners, carbon filters, and/or ultraviolet (UV) sterilizers, and the hot water heater, if applicable. When possible, it is also generally desirable to place the Iron Rival AFTER the plumbing branch off to your outdoor irrigation water unless you want this water treated.



IF YOU HAVE OTHER WATER TREATMENT EQUIPMENT, YOU SHOULD DISCUSS THE ORDER OF YOUR TREATMENT EQUIPMENT WITH YOUR DEALER PRIOR TO INSTALLATION.

Select a location for installation of your Iron Rival that is within close proximity to the main incoming water lines of the home or building. The location should have a firm, level surface with sufficient space for the media tank. Ensure that there will be sufficient space surrounding the unit to facilitate maintenance.



WHILE WATER LEAKS ARE VERY RARE AND UNEXPECTED, YOUR WATER FILTER SYSTEM SHOULD BE LOCATED NEXT TO A FLOOR DRAIN OR PROTECTED BY A WATER LEAK DETECTION SYSTEM WITH AUTOMATIC SHUT-OFF VALVE TO PREVENT WATER DAMAGE TO YOUR PROPERTY IN THE UNLIKELY EVENT OF A WATER LEAK.

RECOMMENDED WATER LEAK DETECTION SYSTEMS ARE AVAILABLE AT WWW.A-LEAK-DETECTOR.COM.

You will also require a suitable drain to discharge waste water from the backwash cycle. A drain standpipe for a washing machine, floor drain, or sump pump is an excellent drain option. We recommend that the drain line be connected to a minimum $1\frac{1}{2}$ " drain standpipe or floor drain located ideally below the top of the head of your Iron Rival. If possible, the drain should be no farther than 20 feet from the system.



NEVER CONNECT THE DRAIN LINE DIRECTLY INTO A DRAIN PIPE. ALLOW AN AIR GAP BETWEEN THE DRAIN TUBING AND WASTE LINE TO PREVENT THE POSSIBILITY OF BACK-SIPHONING. WE DO NOT RECOMMEND USE OF A CHECK VALVE AS IT MAY BECOME CLOGGED WITH CONTAMINANTS EJECTED FROM THE SYSTEM DURING BACKWASH.

You will also need access to a standard, non-switched, grounded 120 volt (60 Hz) electrical outlet. The control valve comes with a 10 foot long electrical cord. An extension cord may be used to reach a suitable electrical outlet. If this option is used, ensure that the extension cord is UL/CSA certified and of an appropriate wire gauge for the application.

Step 3. - Prepare Media Tank

Two types of media are supplied with your Iron Rival system: gravel which forms the base layer (underbedding) in your media tank, and a specialized catalyst media, either Filox, Katalox Light, or Birm. These media are NSF/ANSI 61 validated for material safety.

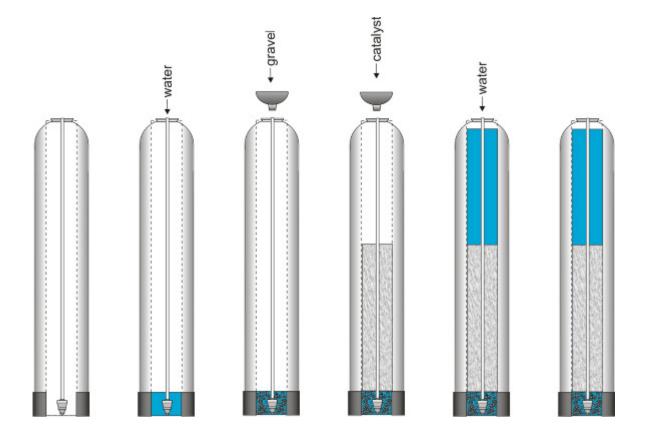
Place the media tank in the location where it will sit when the installation is complete. Note that the black base of your tank is not permanently attached to the rest of the tank. If your tank appears to be crooked, the base has likely been knocked out of alignment during shipping. This can be correct by picking the tank up and tapping it on a hard surface while holding it perpendicular to the floor. A few light taps will generally straighten it out.

Temporarily remove the riser/tube distributor assembly from the media tank. Hand tighten the control valve on the tank and mark where the front of the tank will be. Turn the tank so that the front of the tank is where you want it when it is full – once it is full of media and water, it becomes very heavy and difficult to move!

Remove the control valve and re-insert the distributor and riser tube assembly into the tank. The distributor, which looks like a cone-shaped plastic screen, is pre-connected to the end of

the long plastic riser tube which extends from the bottom of the tank to the top of the tank where the control valve is attached. At the bottom of the tank, there is a recess in the center of the tank to accept the distributor and keep it properly aligned. The riser tube has been pre-cut to the correct height for you. When the distributor is correctly positioned, the top of the riser tube will be approximately 1/8 to 1/4 of an inch below the top of the tank. If the tube is flush or protruding above the top of the tank, the distributor tube is not nested correctly in the recess at the bottom of the tank.

Add enough water to the tank to cover the lower distributor with a minimum of 6 inches of water. This will prevent damage to the lower distributor as gravel is loaded. Place the funnel into the tank so that the riser tube is in the middle. Place tape over the open end of the riser tube. This will prevent gravel or media from accidentally going down the tube during the following steps.



For the following steps, we recommend that you wear a dust mask. Take the bag/box of gravel and, using a small scoop, add the gravel to the tank through the funnel to completely cover the lower distributor. Be sure to provide some pressure on the riser tube while adding the gravel to ensure that the distributor does not shift out of its recess or rise up. Use all of the gravel. Ensure that you create an even layer of gravel across the bottom of the tank. A

rigid piece of thin wall tubing (conduit, copper pipe, etc.), approximately 1" longer than the tank height works well as a leveling tool if you need it. Ensure that the riser tube remains centered in the opening at the top of the tank.

Once this is complete, add the catalyst media in the same manner. Use all of the catalyst media provided. Depending on the capacity of the system, there will only be enough media to fill the tank to about 1/2 to 2/3 full. The media tank should never be filled to the top of the tank as the remaining space, known as the "freeboard," is necessary for the media to have room to expand during the backwash cycle. Once the set-up is complete, the freeboard space will also contain a pressurized pocket of air that provides aeration to enhance the contaminant removal process.

Once you have finished adding the media to the tank, remove the tape from the distributor tube. Be careful not to pull upwards on the riser tube while doing this as it is important that the distributor remain in its recess at the bottom of the tank.

Fill the media tank with water up to within a couple of inches of the top of the tank. This will allow the media to pre-soak, thereby preventing media loss during the initial backwash.



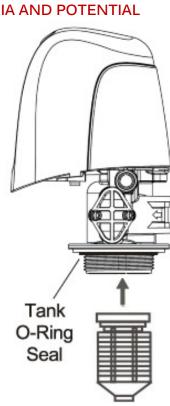
DO NOT INITIATE A REGENERTION OF THIS SYSTEM FOR A MINIMUM OF 12 HOURS AFTER ADDING THE WATER TO ALLOW ADEQUATE PRE-SOAKING. BACKWASHING BEFORE THE MEDIA IS SATURATED MAY CAUSE A LOSS OF MEDIA AND POTENTIAL DAMAGE TO THE CONTROL VALVE.

Attach the upper screen to the underside of the control valve. Be sure to twist clockwise and lock it into place.

Apply a small amount of lubricant to the top inch of the outside of the riser tube, and to the tank o-ring seal.

Note: Only use food-grade silicone lubricant. A small tube is supplied in your small parts bag. Do NOT use petroleum jelly.

The control valve can now be secured to the top of the tank. Before attaching the valve, check to make sure that there is



no debris such as gravel or media in the tank threads. Screw the control valve onto the tank – make sure that the riser tube inserts into the center hole in the upper screen and the control valve as you screw down the valve. The control valve should be hand-tightened (clockwise). Do NOT use the control valve's timer assembly for leverage and do not use tools. A firm grasp with both hands at the base of the valve will work. Do NOT use pipe cement ("pipe dope") or Teflon® tape on the threads.

Step 4. – Turn off the Water & Electric Water Heaters



FAILURE TO FOLLOW THIS PROCEDURE COULD RESULT IN SERIOUS, PERMANENT DAMAGE TO THE HEATING ELEMENTS IN YOUR WATER HEATER.

If you have a conventional electric water heater or an on-demand (tankless) electric water heater, we highly recommend that you turn off the power to the heater while installing any water treatment equipment. Turn off power to your water heater now.

Turn off the household main water shutoff valve. Open several plumbing fixtures inside the home as well as the outside faucets to drain as much water out of the plumbing system as possible.

Following completion of the entire installation, restore the water flow by turning on the household main water valve and allow all air to be purged from the plumbing system before turning the power back on to your water heater.

Step 5. - Prepare and Install Inlet and Outlet Plumbing Connections



TEFLON® TAPE IS THE ONLY SEALANT TO BE USED ON THE 1"NPT CONNECTOR YOKE AND DRAIN FITTINGS.

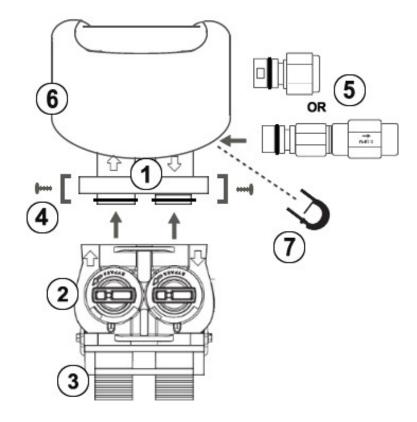


IF YOU WISH TO USE COPPER PIPING FOR YOUR INSTALLATION AND WILL BE SOLDERING THE JOINTS, DO NOT APPLY HEAT NEAR YOUR CONTROL VALVE, BYPASS ASSEMBLY, 1" NPT CONNECTOR YOKE, OR THE DRAIN FITTINGS; OTHERWISE SERIOUS DAMAGE TO THESE PARTS COULD OCCUR. ALWAYS SOLDER JOINTS WITH THESE COMPONENTS DETACHED. IF YOU ARE USING COPPER ADAPTERS TO CONNECT TO THE 1" NPT CONNECTOR, IT IS RECOMMENDED THAT YOU SOLDER A 6" PIECE OF COPPER PIPE INTO EACH OF THE CONNECTION ADAPTERS AWAY FROM THE VALVE, THEN LET THEM COOL OFF BEFORE THREADING THEM ONTO THE 1" NPT CONNECTOR YOKE.

Key control valve Components

- 1. Control Valve Body
- 2. Bypass Assembly
- 3. 1" NPT (Male) Connector Yoke
- 4. Stainless Steel Clip w/ Screw
- 5. Drain Line Flow Control (DLFC)
- 6. Control Valve Cover
- 7. DLFC Retention Clip

The system's control valve is connected to your incoming and outgoing water lines by way of a bypass assembly. This assembly is composed of the bypass valve and the 1"NPT connector yoke. The 2



piece bypass assembly is secured to the control valve using 2 stainless steel clips. Similarly, the 2 pieces of the bypass assembly, the bypass and the 1" NPT connector yoke, are connected to each other in the same manner (they may have been shipped to you pre-connected but you can separate them to make plumbing easier if you want). You will need to purchase the appropriate NPT threaded fittings to connect the bypass assembly to the material and size of your main inlet and outlet water lines.

Locate the inlet and outlet ports on the back of the control valve. Note that the inlet and outlet are marked with arrows indicating the correct direction of water flow. When you are looking at the back of the control valve, the inlet is on the left and the outlet is on the right. A check valve is pre-installed on the inlet side of the control valve. Check the corresponding markings on the bypass to ensure the correct direction of water flow and insert the bypass (do not secure the clips yet). The in and out arrows on the bypass should be pointing the same direction as the in and out arrows on the outside of the control valve.



BE VERY CAREFUL TO MAKE SURE YOU PLUMB THE SYSTEM IN THE RIGHT DIRECTION.

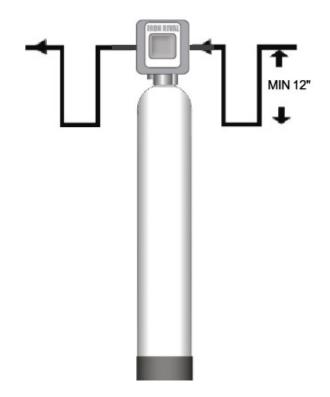
Plumb your main incoming and outgoing water lines using suitable pipe, fittings, elbows, etc. as necessary to create a tidy, secure installation up to the back of the bypass valve (including the correct connection adapters to mate with the threaded fittings on bypass assembly's connection yoke. Be sure to follow all local plumbing codes.



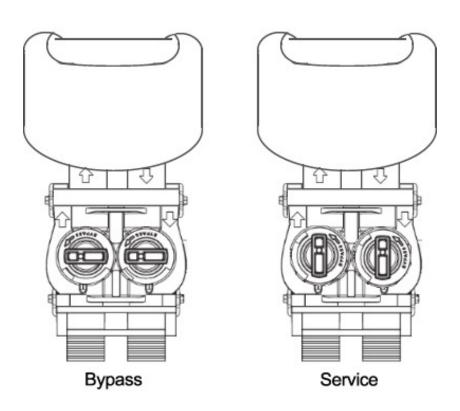
WE HIGHLY RECOMMEND THAT YOU REMOVE THE BYPASS ASSEMBLY FROM THE CONTROL VALVE BEFORE MAKING THESE FINAL CONNECTIONS AS YOU MAY INADVERTENTLY APPLY TOO MUCH PRESSURE ON THE VALVE WHILE SECURING THE ADAPTERS, CAUSING DAMAGE TO THE VALVE BODY.

It is recommended that downward loops (minimum 12") be created in the plumbing pipe immediately before and after the Iron Rival. These loops serve to limit the migration of air in the plumbing system in the event that some escapes the treatment system during regeneration.

Once all plumbing to the bypass has been completed, you can connect the bypass assembly to the control valve. Push the bypass onto the back of the control valve and secure it using the two stainless steel clips with screws located on the back of the control valve. Do not overtighten - it is normal for some "play" to exist when the bypass assembly is properly seated. This allows for minor misalignment of the piping connections and relieves stress on the valve.



Place the bypass in the "bypass" position as pictured:



Step 6. - Drain Line Connection

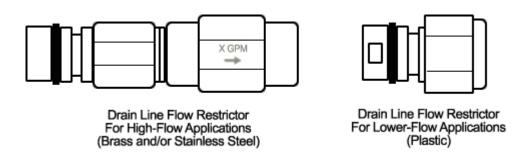
During the backwash and regeneration cycle, your Iron Rival will send captured contaminants and waste water out the drain port. This port needs to be connected to a suitable household drain, ideally within 20 feet of your media tank. A nearby floor drain, sump pump, or a standpipe for a washing machine is an excellent option. We recommend that the drain line be connected to a minimum 1 1/2 inch drain standpipe or floor drain located ideally below the top of the head of your Iron Rival. You will need to purchase suitable pipe or tubing for the drain line, either 1/2 or 3/4 inch diameter. To determine your MINIMUM drain line diameter, look up your model and incoming water temperature using the chart below. If in doubt, use a 3/4 inch (or larger) drain line.

Iron Rival 5800XTR2 Series MINIMUM Drain Line Diameter by Model:

Model	40F Water Temp	70F Water Temp
IR-5800XTR2-8-F	1/2"	1/2"
IR-5800XTR2-9-F	1/2"	1/2"
IR-5800XTR2-10-F	1/2"	3/4"
IR-5800XTR2-12-F	3/4"	3/4"
IR-5800XTR2-13-F	3/4"	3/4"
IR-5800XTR2-14-F	3/4"	3/4"
IR-5800XTR2-8-KL	1/2"	1/2"
IR-5800XTR2-9-KL	1/2"	1/2"
IR-5800XTR2-10-KL	1/2"	1/2"
IR-5800XTR2-12-KL	1/2"	1/2"
IR-5800XTR2-13-KL	3/4"	3/4"
IR-5800XTR2-14-KL	3/4"	3/4"
IR-5800XTR2-8-B	1/2"	1/2"
IR-5800XTR2-9-B	1/2"	1/2"
IR-5800XTR2-10-B	1/2"	1/2"
IR-5800XTR2-12-B	3/4"	3/4"
IR-5800XTR2-13-B	3/4"	3/4"
IR-5800XTR2-14-B	3/4"	3/4"

Polyethylene tubing, PEX, PVC, CPVC, or copper pipe are all acceptable material choices for the drain line. If you are using flexible tubing, be sure that there are no "kinks" or "crimps" in the tubing after installation that may cause a flow restriction. If you use PEX or barbed fittings, increase your drain line diameter by 1/4" to compensate for the additional constriction caused by the internal fittings. If used, overhead drain lines are not to exceed a

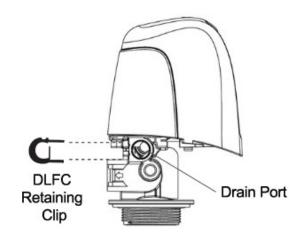
height of 5 feet above the control valve and should be not more than 20 feet in length. Should an overhead drain line be utilized, it is recommended that the drain line be increased in size (diameter), and that it not be fastened flush to the bottom of a floor joist to minimize noise transfer to the upstairs of the building during regeneration.



Locate the drain port on the back of your control valve. The drain line flow control assembly (DLFC) may pre-attached to the control valve or it may have been shipped separately in your box. For backwash flow rates of 7 GPM or less, the DLFC will be a black plastic fitting with 1/2 inch female NPT threads. This fitting contains a flow control washer that limits the backwash flow rate. For backwash flow rates exceeding

7 GPM, the DLFC will be a brass assembly with a pre-attached external flow restrictor with 3/4 inch female NPT threads.

Using an appropriate fitting, connect the drain line flow control to your drain line tubing/pipe.
The DLFC can be removed from the control valve to facilitate easier plumbing if desired.
To remove the drain line flow control, pull out on the retaining clip to remove it and then grasp the drain line flow control and pull outward.





NEVER CONNECT THE DRAIN LINE DIRECTLY INTO A DRAIN. ALLOW AN AIR-GAP OF A MINIMUM OF 1 INCH (CHECK LOCAL CODES) BETWEEN THE DRAIN LINE AND WASTE LINE TO PREVENT THE POSSIBILITY OF BACK-SIPHONING. ALWAYS FOLLOW LOCAL CODES. THE DRAIN LINE SHOULD NOT BE EXPOSED TO FREEZING TEMPERATURES.

Re-insert the DLFC into the control valve and securely lock into place with the retaining clip when done.

Ensure that the drain line is thoroughly secured along its route to the drain. The drain line will be under pressure when the regeneration / backwash cycle is working. If not adequately secured, the drain line could vibrate during backwash, particularly during the initial purge of air from the top of the tank, causing excessive noise. If this is experienced, use additional fixtures to better secure the drain line.

Step 7 - Control Valve Set-up

During cold weather, the installer should warm the control valve to room temperature before operating.

Note: All electrical connections must be done according to local codes.

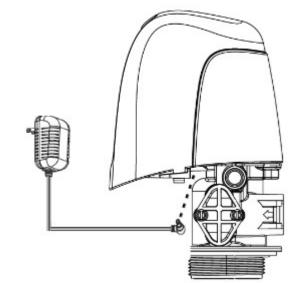
Plug the control valve into a standard, grounded 120 volt (60 Hz) electrical outlet using the plug-in transformer provided. Be certain that the outlet is uninterrupted and not controlled by a switch. An extension cord may be used to reach a suitable electrical outlet. Ensure that the extension cord is UL/CSA certified and of an appropriate wire gauge for the application. Plug the other end of the power cord into the electrical port on the control valve.

Note: The electrical port on the control valve is located on the right side of the valve (when you are facing the control panel), just behind the tab used to remove the valve cover. It is a bit tricky to find.

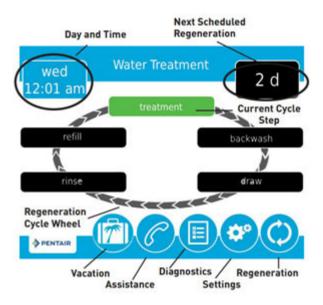
Once plugged in, the touch screen on the control valve will illuminate. The control valve may need to reset to the home position when it is powered up. If it does, the motor will run for a few seconds.

Optional: The touch screen is shipped with a

protective plastic film that can be peeled off.



The following is the primary "Home Screen" or Main Menu:



Items displayed in blue or grey can be touched to edit or obtain more information. Items displayed in black are for information purposes only and cannot be selected.

In the top left corner of the screen, you will find the current day of the week and time.

In the top right corner, there is an indicator that will tell you when the next "regeneration" or backwash cycle is scheduled to occur.

In the middle of the screen is the regeneration cycle wheel which indicates the current valve cycle (indicated in green), and other applicable cycles (in black).

The bottom menu bar provides the following options:

Vacation: Select this icon to set your water filter system to vacation mode. This mode can be used if you will be away for an extended period of time and will not be using water. When vacation mode is selected, the system will temporarily cease flush cycles. Upon returning from vacation, it is important to remember to end the vacation mode by pressing the same icon. When in vacation mode, "Vacation Mode" will be displayed in the top right corner of the screen.

Assistance: Select this icon to display the name and phone number of your dealer.

Diagnostics: Select this icon to enter the Diagnostics Mode - see Diagnostics Mode below for more details.

Settings: Select this icon to edit the time of day that the flush cycle will occur. Other programming functions can be accessed using this icon, however, it is strongly recommended that you do not change any settings without first discussing with your dealer.

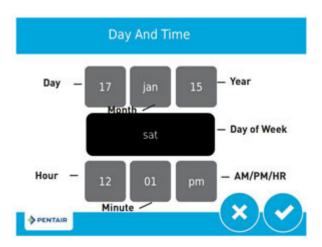
Regeneration: Select this icon to schedule a flush cycle to occur immediately or the next time that time of day equals the regeneration (flush) time.

The touch screen has an energy-saving feature that will turn the display off (sleep mode) if no user input has been made for 5 minutes. To turn the screen back on, just touch it.

We will first set the time of day to the correct time. The current day of the week and time is displayed in the top left corner of the home screen. It is important that the day and time be accurate so that the backwash cycle will occur at the correct time of the day and so that the diagnostic and data gathering functions of the control valve will be accurate.

If the day and time are flashing, it means that there has been a power failure and the day and time need to be checked.

To change the time of day, touch the day and time display in the top left corner of the home screen and the following screen will appear:



Touch the grey box associated with the year. 2 blue arrows will appear. Touch the blue arrow on the left to decrease the year. Touch the blue arrow on the right to increase in the year. Adjust the year by touching the arrows until it is correct.

Similarly, touch the grey boxes associated with the month and day and use the arrows to adjust the month and day settings until they are correct

Set the hour, minutes, and pm/am in the same manner.

When you are satisfied that all of the settings are correct, press the checkmark icon on the bottom right corner of the screen. To cancel your changes and return to the home screen, press the "X" icon at any time.

Your system has been pre-programmed to backwash every 2 to 3 days at 12:00am in the morning when it is very unlikely that water will be required in the building. If water is required during the backwash process, untreated water will be permitted to flow to meet your service needs. You may edit the frequency and duration of the backwash based on your water conditions. You may also alter the time of day that the backwash process occurs if 12:00am is not ideal for you. If you have a water softener or other automatic backwashing water treatment systems, make sure that they are not set to regenerate at the same time. We recommend that they backwash/regenerate at least 2 hours apart. Follow the instructions under "Changing Basic Settings" to change the frequency or backwash time if desired. If you want to change the duration of the backwash or final rinse cycles, these settings must be edited in the "Master Settings Mode" – see below for details.

Step 8 - Initial Start-up and Leak Testing

Ensure that the bypass valve is in the bypass position (see above). Turn on the main water supply. Open a cold water tap nearby and let the water run for a few minutes until the system is free of foreign material and air that may have resulted from the installation. Once clean and free of air, close the water tap.



INSPECT YOUR PLUMBING CONNECTIONS AND CONTROL VALVE FOR LEAKS AND REPAIR ANY LEAKS FOUND BEFORE PROCEEDING.



DO NOT INITIATE A REGENERTION OF THIS SYSTEM FOR A MINIMUM OF 12 HOURS AFTER ADDING WATER TO THE MEDIA TANK TO ALLOW ADEQUATE PRE-SOAKING.
BACKWASHING BEFORE THE MEDIA IS SATURATED COULD CAUSE A LOSS OF MEDIA AND POTENTIAL DAMAGE TO THE CONTROL VALVE.

Once the catalyst media has been adequately pre-soaked for 12 hours:

WITH THE BYPASS STILL IN THE BYPASS POSITION, touch the REGENERATION ICON. You will be given a choice to regenerate "now" or "at regen time" - select "now." You will hear the valve motor change the position of the valve piston, "backwash" will be indicated on the regeneration wheel on the touch screen display, and the backwash time will begin counting down in the top right corner of the display. Once the motor has stopped moving (no more noise), press the >> icon in the bottom right to advance to the air draw cycle. Once the motor has stopped moving, press the >> icon again to advance to the rapid rinse stage of the regeneration cycle.

<u>Without delay</u>, immediately begin to slowly open the bypass valve to the service position, allowing water to flow into the system. Water and air will begin to flow to the drain line and will continue for 1 minute. At the end of this time, the control valve will re-position and the system will return to normal service mode.



INSPECT YOUR DRAIN LINE PLUMBING CONNECTIONS AND REPAIR ANY LEAKS
IMMEDIATELY BEFORE PROCEEDING. IF THE DRAIN PIPE RATTLED OR VIBRATED
DURING THIS PROCESS CAUSING EXCESSIVE NOISE, USE ADDITIONAL FASTENERS TO
BETTER SECURE THE DRAIN LINE.

Touch the REGENERATION ICON. You will be given a choice to regenerate "now" or "at regen time" - select "now" to engage a full backwash and rinse cycle. This time, allow the backwash and rinse to run their full cycles.

When the system returns to service mode, slowly open a nearby cold water tap (after the filter system) and let the water run for 5 to 10 minutes until the system is purged of all air that may have resulted from the installation, and the water is running clear. Repeat for other faucets in the building starting at the highest elevation and working down to the lowest point until all air is purged. The initial flow of water may be discolored. This is normal and will generally go away quickly.

If the discoloration lingers, press the REGENERATION ICON and initiate another complete regeneration cycle. Again, allow all of the cycles to run their full length. When the system returns to service mode, open a nearby cold water tap (after the filter system) and let the water run for 5 to 10 minutes until the water runs clear. Repeat again if necessary.

It is now safe to turn the electricity back on to your water heater.

Congratulations! Your system is now ready to provide treated water to your home!

If you have a tank-style water heater, it will still contain untreated water for a few days, but your cold water lines will begin dispensing treated water right away.

REGENERATION

The regeneration process is automatically engaged and controlled by your control valve. Your system was pre-programmed at the factory. In most cases, your system will be programmed at the factory to regenerate every 2 or 3 days at 12:00 midnight, however, this can be adjusted to suit your specific preferences and needs.

There are 3 steps to the regeneration process:

Step 1: Backwash: factory pre-set for 14 minutes (parameter display code BW)

Step 2: Air Draw: factory pre-set for 20 to 50 minutes depending on your system size (parameter display code BD)

Step 3: Rapid Rinse: factory pre-set for 1 minute (parameter display code RR)

Unless directed by a water treatment professional familiar with this system and your water conditions, we do not recommend that you alter the duration of any of the regeneration cycles. If necessary, these parameters can be adjusted through the Master Programming Mode (see below).

During each step of regeneration, the digital display on the control valve will indicate the cycle currently underway and the amount of time remaining in that cycle.

There may be instances where more frequent regeneration is required. For instance, if your water consumption increases considerably due to additional guests at your home, or if your feed water conditions temporarily worsen, you may want to perform a manual regeneration. You can choose to initiate a manual regeneration immediately or the next time the regeneration time of day is reached:

To initiate a manual backwash:

Touch the REGENERATION ICON. You will be given a choice to either do a regeneration immediately or to queue a backwash to occur the next time the system reaches the normal backwash time of day.

To skip through backwash steps:

There may be times that it may be desirable to skip through backwash steps without allowing them to fully complete. This would be most typical during servicing. When a cycle engages, always wait until the motor has stopped before skipping to the next cycle. You can hear the valve motor while it is repositioning the valve at the beginning of each cycle. Once the motor has stopped moving (no more noise), press the >> ICON (bottom right) to advance to the next stage of the regeneration cycle.

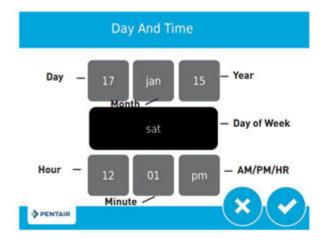
The control valve will continue to keep time and the passage of days for a minimum of 48 hours in the event of a power failure.

CHANGING TIME OF DAY

The current day of the week and time is displayed in the top left corner of the home screen. It is important that the day and time be accurate so that the flush cycle(s) will occur at the correct time of the day and so that the diagnostic and data gathering functions of the control valve will be accurate.

If the day and time are flashing, it means that there has been a power failure and the day and time need to be checked.

To change the time of day, touch the day and time display in the top left corner of the home screen and the following screen will appear:



Touch the grey box associated with the year. 2 blue arrows will appear. Touch the blue arrow on the left to decrease the year. Touch the blue arrow on the right to increase in the year. Adjust the year by touching the arrows until it is correct.

Similarly, touch the grey boxes associated with the month and day and use the arrows to adjust the month and day settings until they are correct.

Set the hour, minutes, and PM/AM in the same manner.

When you are satisfied that all of the settings are correct, press the CHECKMARK ICON in the bottom right corner of the screen. To cancel your changes and return to the home screen, press the "X" ICON at any time.

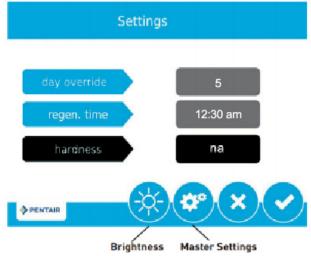
CHANGING BASIC SETTINGS

The Settings Mode allows you to set the frequency of the back flush and the time of day that the flush cycles will take place. You can also adjust the brightness of the touch screen display.

To enter the Settings Mode, touch the SETTINGS ICON in the main menu at the bottom of the home screen. The following screen will appear:

Day Override

The default setting is 2 or 3 days. There may be



instances where more frequent backwash is required. For instance, if your water consumption increases considerably, or if your feed water conditions temporarily worsen. We do not recommend that this setting be greater than 3 or performance of your system may be compromised.

Backwash Time

The "regen. time" is the time of day that the automatic backwash cycle is scheduled to occur. We recommend that the backwash be carried out in the middle of the night or other time where it is unlikely that water will be used for other purposes.

To adjust the time of day that the flush cycles will occur, touch "regen. time" and two blue arrows will appear. Touch the arrow on the left to adjust to an earlier time, and the arrow on the right to adjust to a later time.

When you are satisfied that all of the settings are correct, press the CHECKMARK ICON in the bottom right corner of the screen. To cancel your changes and return to the home screen, press the "X" ICON at any time.

Touch Screen Display Brightness

You can adjust the brightness of your touch screen by touching the BRIGHTNESS ICON. The brightness can be set on a scale from 0 to 10 with 10 being the brightest. The default setting is 10. To change the setting, touch "power," then use the 2 blue arrows to increase or decrease the brightness to suit your preferences. Each time you press one of the blue arrows, the screen brightness will change accordingly.

When you are satisfied with the brightness level, press the CHECKMARK ICON in the bottom right corner of the screen. To cancel your changes and return to the home screen, press the "X" ICON at any time.

Master Settings

The Master Settings Mode allows service technicians to set-up the valve for optimal performance. A password is required to enter this mode. We do not recommend that you alter any of these settings. See Master Settings Mode below.

DIAGNOSTICS

<u>Diagnostics features are only available if your system is equipped with an optional flow</u> meter that is not included as standard equipment with most models.

The Diagnostics Mode allows you to view a wide range of information about the performance of your system and your water usage. You can enter the Diagnostics Mode by selecting the DIAGNOSTICS ICON in the main menu on the home screen.

Once in the Diagnostic Mode, you can navigate to the next screen by pressing the right arrow on the top right corner of the screen or go back to the previous screen by pressing the left arrow on the top left of the screen. You can return to the home screen at any time by pressing the HOME ICON on the bottom right corner of the screen.

The first screen displays the following diagnostic information:

Flow Rate: This is the current flow rate of water through the system in gallons per minute. If water is not running, it will display 0.0 GPM.

Peak Flow: This is the highest flow rate in gallons per minute recorded through the system since measurement was last reset. To obtain more details, touch "peak flow" and it will display the date and time at which this peak flow rate occurred. To reset the peak flow meter, select the icon in the bottom right corner of this screen. The peak flow rate meter will be reset to zero. To return to the main diagnostics screen without resetting the meter, press the diagnostics icon instead.

Totalizer: This is the total volume of water in gallons (U.S.) that have been treated by the system since the totalizer meter was last reset. To reset the totalizer meter, touch "totalizer" and then select the icon in the bottom right corner of the next screen. The totalizer meter will be reset to zero.

The second screen displays when the last regeneration (flush cycle) occurred as well as the software version that is used by your control valve.

The third screen indicates the number of flush cycles that the valve has done as well as the average interval between regenerations (flushes) based on the last 4 cycles.

Daily Usage: In this area, you can access daily water usage information for the past month. The first screen allows you to see the average water usage by day of the week (use the > and < icons to view other days of the week). Select a day of the week to see detailed water consumption data on this day of the week for the last month.

The final Diagnostic Mode screen provides details as to how much water has been processed since the last flush cycle and when the programming settings were last changed.

To exit the Diagnostics Mode, press the home icon in the bottom right corner of the screen.

MASTER PROGRAMMING MODE



THE MASTER PROGRAMMING MODE IS DESIGNED FOR PROFESSIONAL USE ONLY. UNLESS DIRECTED BY A WATER TREATMENT PROFESSIONAL FAMILIAR WITH THE SYSTEM, IT IS STRONGLY RECOMMENDED THAT YOU DO NOT ALTER ANY OF THE MASTER PROGRAMMING MODE SETTINGS.

To enter the Master Settings Mode, select the SETTINGS ICON from the home screen, then select the SETTINGS ICON again. The password is: 1201

The following settings are the factory default settings:

FORMAT

Parameter	Setting
language	english
units	us
hardness units	gpG

VALVE

Parameter	Setting
system	4
valve	5800
regen. type	time clock
day override / time driven	2 or 3*

regen. time	12:00 am
<u> </u>	

REGEN.

Parameter	Setting
regen flow	aio
step # 1	backwash
time 1	14 m
step # 2	air draw
time 2	**
step # 3	rapid rinse
time 3	1 m

RELAY

Parameter	Setting
auxiliary 1	off
auxiliary 2	off

^{* 2} days for systems with Filox media, 3 days for Katalox Light and Birm

^{**} This value will range from 20 to 50 minutes depending on your system size. Typical settings are:

System models where X in the	
model number equals:	Minutes
(IR-5800XTR2- <mark>X</mark> -Y)	
8	20
9	25
10	30
12	40
13	45
14	50

OPERATION DURING A POWER FAILURE

The 5800XTR2 valve/controller includes integral power backup. In the event of power failure, the control shifts into a power-saving mode. The display and motor shut down, but it continues to keep track of the time and day for a minimum of 48 hours.

The system configuration settings are stored in a non-volatile memory and are stored indefinitely with or without line power. The Time of Day flashes when there has been a power failure. Press any button to stop the Time of Day from flashing.

If power fails while the unit is in backwash, the control will save the current valve position before it shuts down. When power is restored, the control will resume the backwash cycle from the point where power failed. Note that if power fails during a backwash cycle, the valve will remain in its current position until power is restored.

The control will not start a new backwash cycle without power. If the valve misses a scheduled backwash due to a power failure, it will queue a backwash. Once power is restored, the control will initiate a backwash cycle the next time that the Time of Day equals the programmed backwash time. Typically, this means that the valve will backwash one day after it was originally scheduled.



THE DRAIN LINE PLUMBING CONFIGURATION SHOULD INCLUDE ALL REQUIRED SAFETY COMPONENTS TO PREVENT OVERFLOWS RESULTING FROM A POWER FAILURE DURING REGENERATION.

MAINTENANCE & TROUBLESHOOTING



THE CONTROLLER MUST BE DEPRESSURIZED BEFORE REMOVING ANY QUICK CONNECTION CLIPS FOR SERVICING. THE CONNECTOR SHOULD BE PUSHED TOWARD THE CONTROL VALVE WHILE REMOVING CLIPS.

Service Recommendations

Your Iron Rival is built for long term operation with limited maintenance. It is recommended that the injectors and inlet screen be cleaned annually.

The piston and seal kit assembly may require periodic servicing or replacement, generally about every 2 to 3 years. In harsh conditions, particular where water highly contaminated, or where excessive levels of hydrogen sulfide are present, more frequent replacement of these parts may be required.

Replacement Part: Part #61837 Fleck 5800 Piston and Seal Kit Assembly, Downflow

Filox media will generally last in excess of 10 years as long as it is adequately backwashed to remove trapped contaminants. In ideal conditions, it can last indefinitely. Katalox Light and Birm are coated media and generally have a shorter life, 5 to 10 years for Katalox Light and 3 to 7 years for Birm. Inadequate backwash duration or flow rates could cause media clogging which could require the replacement of the media to restore flow and pressure performance.

Troubleshooting

PROBLEM	CAUSE	CORRECTION	
1. Iron Rival valve does not	A. Electrical service to unit has	A. Assure permanent electrical	
attempt to regenerate when	been interrupted.	service (check fuse, plug, pull	
scheduled	B. Timer is defective.	chain or switch).	
		B. Replace timer.	
2. Loss of water pressure.	A. Iron buildup in line to water	A. Clean line to water	
	filter.	conditioner.	
	B. Iron buildup in water filter.	B. Clean control valve and add	
	C. Inlet of control plugged due	mineral cleaner to mineral bed.	
	to foreign material broken loose	Increase frequency of	
	from pipe by recent work done	regeneration and/or backwash	
	on plumbing system.	time.	
		C. Remove pistons and clean	
		control.	
3. Loss of catalyst media	A. Drain line flow control too	A. Check to ensure drain line	
through drain line.	large.	flow control is sized properly for	
		your tank.	
4. Iron in treated water.	A. Bypass valve is open.	A. Close bypass valve.	
	B. Unit does not draw air during	B. Check the air inlet check	
	regeneration.	valve. Clean or replace as	
	C. Injector screen plugged.	needed.	
	D. Inadequate air draw.	C. Clean injector screen.	
	E. Water usage depletes	D. Verify the draw time setting	
	oxidizer capacity before	and adjust as needed.	

	regeneration.	E. Adjust regeneration
	F. Leak at distributor tube.	frequency to meet demand.
	G. Internal valve leak	F. Make sure distributor tube is
		not cracked. Check O-ring and
		tube pilot.
		G. Replace seals and spacers
		and/or piston.
5. Water running to drain during	A. Internal valve leak due to	A. Replace seal and spacer
service mode.	worn seal & spacer stack.	assembly and/or piston.
	B. Jammed or broken piston.	B. Remove obstruction/debris
		and inspect seals and spacers
		and/or piston for damage.

ERROR CODES

Code	Error	Cause	Reset & recovery
0	Cam Sense	The valve drive took	Unplug the unit and examine the control valve.
	Error	longer than 6 minutes to	Verify that all cam switches are connected to
		advance to the next	the circuit board and functioning properly.
		regeneration position.	Verify that the motor and drive train
			components are in good condition and
			assembled properly. Check the valve and verify
			that the piston travels freely. Replace/
			reassemble the various components as
			necessary. Plug the unit back in and observe
			its behavior. The unit should cycle to the next
			valve position and stop. If the error re-occurs,
			unplug the unit and contact technical support.
1	Cycle Step	The control experienced	Unplug the unit and examine the control valve.
	Error	an unexpected cycle	Verify that all cam switches are connected to
		input.	the circuit board and functioning properly.
			Enter Master Programming mode and verify
			that the valve type and system type are set
			correctly with regard to the unit itself. Step the
			unit through a manual regeneration and verify
			that it functions correctly. If the error re-occurs
			unplug the unit and contact technical support.
2	Regen Failure	The system has not	Perform a Manual Regeneration to reset the
		regenerated for more	error code. Enter Master Programming mode
		than 99 days.	and verify that the unit is configured properly.
			As appropriate for the valve configuration,
			check that the correct system capacity has

			been selected, and that the day override is set
			properly. Correct the settings as necessary.
3	Memory Error	Control board memory	Perform a Master Reset and reconfigure the
		failure.	system via Master Programming mode. After
			reconfiguring the system, set the valve through
			a manual regeneration. If the error re-occurs,
			unplug the unit and contact technical support.

WARRANTY INFORMATION

Iron Rival systems are backed by a comprehensive warranty program.

The Fleck 5800XTR2 control valve and related bypass assembly and media tank are manufactured by Pentair LLC and are subject to Pentair LLC's Limited Warranty. See Pentair's Limited Warranty for details.

Fleck 5800XTR2 control valve: 5 Years* Media tanks up to 13" in Diameter: 10 Years

Media tanks 14" and Greater in Diameter: 5 Years

*Note: Pistons, piston seals and spacers, injectors, injector screens, and check valves are considered wear and tear items and require regularly scheduled maintenance and replacement.

HomePlus Products Inc. will assist you in obtaining warranty coverage from Pentair LLC. To report a warranty problem with your system or request warranty assistance, please call HomePlus Products Inc. Toll free: 1-866-376-2690

Subject to the limitations noted below, all other components of the Iron Rival system are warranted by HomePlus Products Inc. to be free of defects in material and workmanship for a period of 1 year except as noted**.

**Note: Due to the wide variety of potential feed water conditions, there is no warranty on the catalyst media or underbed gravel.

The term of these warranties begins on the date of delivery of the product to the customer and continues until the earlier of:

- the end of the warranty term noted above; or
- the date in which the product(s) is/are removed from the original location of installation; or
- the date in which the original purchaser sells or otherwise transfers ownership of the home in which the product(s) was/were originally installed.

Only products purchased from an Authorized Dealer or HomePlus Products Inc. directly are eligible for this warranty. The products must have been installed and operated in accordance with the instructions and operating conditions stated in the Owner's Manual.

Customer must register his or her warranty with HomePlus products Inc. within 90 days of original purchase for the warranty to remain valid.

This warranty applies only in Canada and the United States of America.

In the event that a part is deemed defective, the user must immediately inform HomePlus Products Inc. who will furnish a replacement part at no cost to the user. HomePlus' obligation to the customer shall be limited to the replacement of the defective part by prepaid standard freight to the original point of installation. Expedited shipping is available at the discretion and cost of the customer. When required, the return of defective parts to HomePlus is the responsibility of the customer.

This warranty does not cover any labour costs including labour costs related to troubleshooting, repair, installation, replacement, or maintenance.

This warranty does not apply to the following situations: misuse; normal wear and tear; neglect; unauthorized repair or damage caused through installation, adaptation, or modification; use in an improper manner or manner inconsistent with the manufacturer's installation, operating, and maintenance instructions; misapplication; wear or deterioration due to environmental conditions; damage occurring during transit; mishandling; improper storage; incorrect supply of water; tampering or alteration; fire, freezing; act of God; or any cause beyond the control of HomePlus Products Inc.

The original warranty period does not change in the event of part replacement by HomePlus Products Inc.

This warranty is issued exclusively to the original consumer purchaser of record so long as the product remains installed in the original location of installation, and is not transferable.

The provisions of the foregoing warranties are in lieu of any other warranty, whether expressed or implied, written or oral (including any warranty of merchantability or fitness for a particular purpose). HomePlus Product Inc.'s liability arising out of the manufacture, sale, or supplying of the products or their use or disposition, whether based upon warranty, contract, tort, or otherwise, shall not exceed the actual purchase price paid by the authorized dealer or consumer for the product. In no event shall HomePlus Products Inc. be liable to the distributor or any other person or entity for special, incidental, consequential or punitive damages (including, but not limited to, property damage or loss, loss of incomes, or loss of use damages) arising out of the manufacture, sale, or supplying of the products, even if HomePlus Products Inc. has been advised of the possibility of such damages or losses. These warranties are governed by the laws of the Province of British Columbia, Canada, and may change without notice.

To report a warranty problem with your system or request warranty assistance, please call HomePlus Products Inc. Toll free: 1-866-376-2690

MANUFACTURED BY:



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