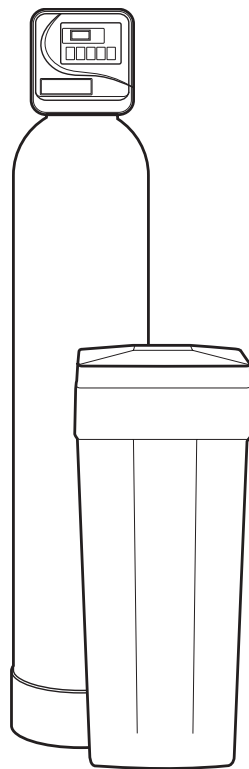




Puretec®
PERFECTING WATER



User Guide

MUL-E1 Series

Multitrol Filtration System

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Puretec Customer Service

Thank you for purchasing a Puretec Multitrol Filtration System. Your system is a proven performer manufactured from only quality materials and components. It will give years of reliability and trouble free operation if maintained properly.

This user guide is designed for Puretec MUL Water Treatment Systems. Be careful to ensure the information and illustration is applicable to your particular unit.

Caution: Do not use with water that is microbiologically unsafe or without adequate disinfection before or after the system.

Puretec systems are designed to run economically for many years and this is dependant on the initial installation and periodic maintenance.

Flush system for 5 minutes or more, after any period of non-use, more than 2 weeks.

Note: For point of entry installations an approved dual check backflow prevention device must be installed.

When line pressure exceeds 500 kPa, a pressure limiting valve is recommended. Pressures above 875 kPa must have PLV must have a pressure limiting valve installed.

Installation Record

For future reference, fill in the following data

Product Information	
Model Number	
Serial / Batch Number	
Purchased from:	
Date of Installation	
Installer / Plumber Details	
Regen Frequency	_____ Days

Water Analysis Information	
Hardness	_____ ppm / mg/L
Iron	_____ ppm / mg/L
Manganese	_____ ppm / mg/L
pH	_____
TDS (Total Dissolved Salts)	_____ ppm / mg/L
Ammonia	_____ ppm
TOC (Tannin)	_____ ppm

Before Installation

Professional Installation Required

- Installation requires shutting water off to home, cutting home water supply pipe and using a welding torch to add piping and fittings. Specialized tools and skills are required. Not a do-it-yourself type of project.

Make Sure Your Water Has Been Thoroughly Tested

- An analysis of your water should be made prior to the selection of your water conditioning equipment. Your dealer will generally perform this service for you, and may send a sample to the factory for analysis and recommendations. Enter your analysis information on page 4 for your permanent record.
- The Multitrol System is designed to reduce tannis, iron, manganese and hardness. Contact Puretec when selecting model and regeneration settings for best results.

Install Water Conditioning Equipment Correctly

- Select the location of your Multitrol system with care. Various conditions which contribute to proper location are as follows:
- Install as close as possible to a drain
- Install in correct relationship to other water treatment equipment. Contact Puretec for assistance.
- Install the Multitrol system in the supply line BEFORE the water heater. Temperatures above 110°F (43.3°C) will damage the system and void the warranty.
- DO NOT install the Multitrol system in a location where freezing temperatures occur. Freezing may cause permanent damage and will also void the warranty.
- DO NOT install where water hammer conditions may occur without installing an arrestor
- Allow sufficient space around the installation for easy servicing. Provide a non-switched 240V power source for the control valve.

Facts to Remember While Planning Your Installation:

- All installation procedures **MUST** conform to local plumbing codes.
- If lawn sprinkling, a swimming pool, or geothermal heating/cooling or water for other devices/activities are to be treated by the Multitrol system, a larger model **MUST** be selected to accommodate the higher flow rate plus the backwashing requirements of the Multitrol system. Contact Puretec for assistance.

**WARNINGS**

- The control valve, fittings and/or bypass are designed to accommodate minor plumbing misalignment but are not designed to support the weight of a system or the plumbing.
- Do not use Vaseline, oils, other hydrocarbon lubricants or spray silicone anywhere. A silicon lubricant may be used on the black o-rings but it is not necessary.
- Do not use pipe dope or other sealants on threads. Teflon tape is the preferred sealant but is not necessary on the nut connection or caps because of o-ring seals.
- All plumbing should be done in accordance with local plumbing codes. The pipe size for the drain line should be a minimum of 5/8".
- Avoid getting primer and solvent cement on filter system.
- Install grounding strap on metal pipes if required.
- Ensure the system is protected against high pressure and extreme temperatures.

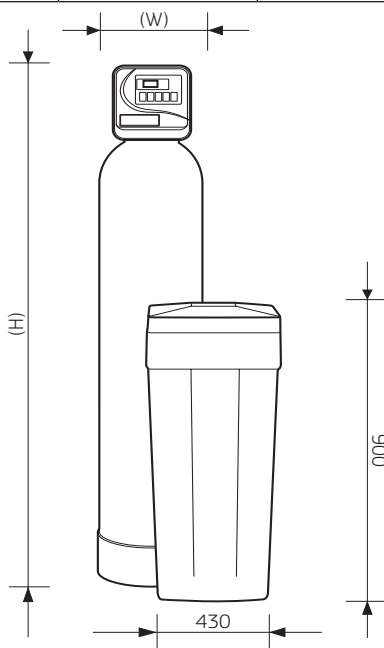
Note: Solder joints must be done prior to connecting to the valve fittings. Leave at least 6" between the fitting and solder joints when soldering pipes. Failure to do this could cause heat damage to the fittings.

This should be carried out by a qualified tradesman.

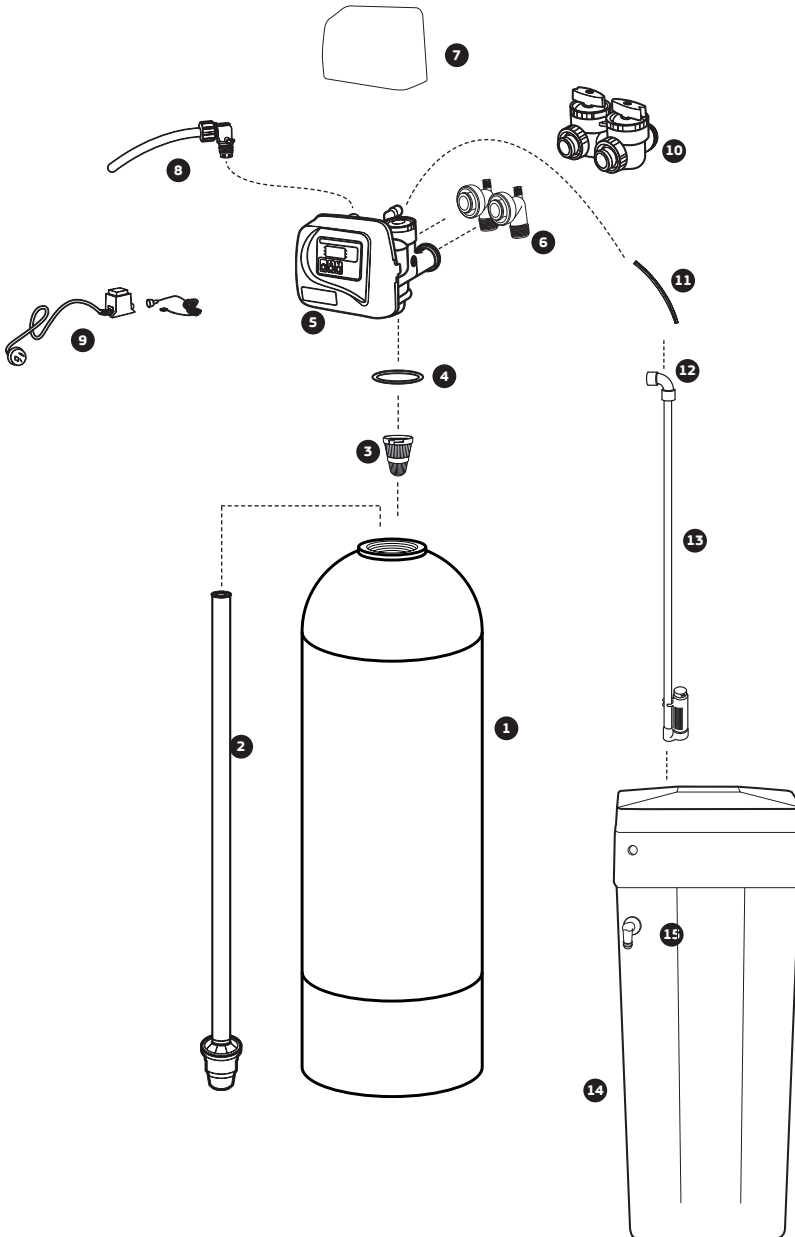
Specifications

Operating pressure min/max	140-875 kPa
Operating temperature min/max (l)	2-48 °C
Electrical connection	240V / 50 Hz
Inlet/outlet connection	25mm
Drain connection	5/8"
Overflow connection	5/8"

	SOL-C30	SOL-C40	SOL-C50
Width (mm) (W)	245 mm	260 mm	300 mm
Height (mm) (H)	1400 mm	1570 mm	1525 mm
Maximum salt storage capacity	125 kg	125 kg	125 kg



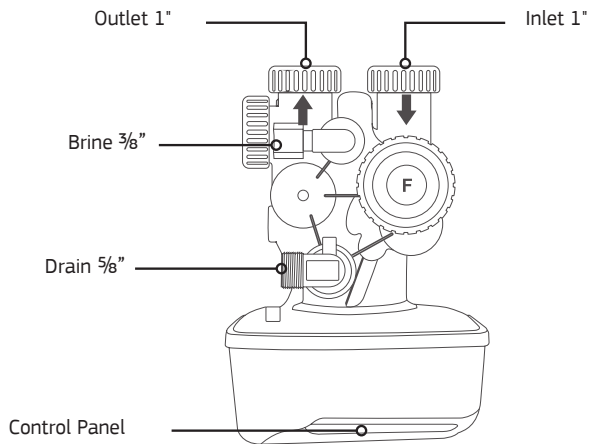
Exploded Diagram



Item	Part no	Description
1	-	Pressure tank
2	WTD2030	Riser pipe
3	WTD1010	Top screen
4	WTD3030	Pressure tank UV shield
5	WTV4000	Automatic valve
6	WTB5070	Plastic fitting kit, elbow
7	WTB2100	Valve Cover
8	-	Drain tube assembly
9	WTV5135	Transformer, suit auto valve

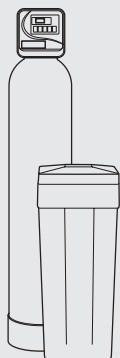
Item	Part no	Description
10	WTV5000	Bypass assembly (purchased Separately)
11	KTV65VC	3/8" Black tubing
12	KEC66	3/8" Elbow connector
13	WTB4190	Brine pickup assembly
14	WTB2200	Brine tank
15	WTB5150	2 Piece overflow

Diagram Identification



Installation Procedure

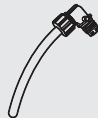
- 1** Unpack the equipment. Locate and identify the parts as shown below:



Water Softener



Bypass assembly
(purchased separately)



Drain Tube assembly
(2m of 3/8" tubing)



User guide



Media

- 2** Extra items required:



Bag of salt (refer to page 16 for the type of salt to be used)



3/8" tubing for drain and overflow (refer to page 13)

- 3** Ensure water has been tested, Input values into Table on page 4 and the analysis has been inspected by Puretec.



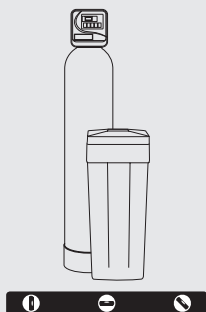
Water Analysis Information	
Hardness	150 ppm / mg/L
Iron	0.5 ppm / mg/L
Manganese	0.1 ppm / mg/L
pH	7
TDS (Total Dissolved Solids)	275 ppm / mg/L
Conductivity	404 EC / uS/cm
Chloride	3.2 ppm / mg/L
Sodium	46 ppm / mg/L



Customer Service Helpline
1300 140 140 (AU) 0800 130 140 (NZ)



4 Position the Multitrol System on a level surface.



Environmental conditions:

Operating temperature: 2-48°C

Water conditions

Temperature: 1-50°C

Pressure: 140-875 kPa

5 Media Installation

The Media has been shipped separately to avoid damage in transit.

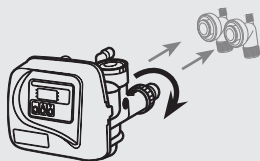
The length of the internal riser pipe is pre-set and does not need adjustment.

1. Position the system on a flat surface close to a drain or a properly trapped outlet, in a position when the system can service all lines requiring treated water. The system should be placed far enough away from any water heaters to avoid any hot water backflow into the system. A weatherproof powerpoint and surge protector is recommended.
2. Plug or cover the top end of the riser pipe in the tank making sure no media can enter the tube.
3. Ensure that the riser pipe is sitting in the cradle at the base of the tank. Then using a wide mouth funnel, place the media in the tank as per the numbering on the buckets. (Buckets are labelled 2, 3 etc. Put No. 2 in first, followed by 3, etc. as required.)

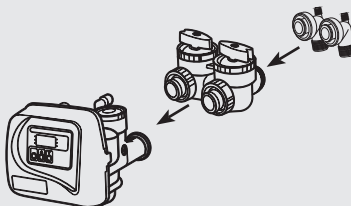
Note: vessel and head are always labelled as No.1.

4. Remove the plug or cover from the riser pipe making sure you do not lift the riser pipe. Top up tank with water. Screw valve onto the tank (hand tight is usually sufficient), making sure the distributor tube is properly inserted into the valve.

6 Installing the Bypass (purchased separately)



Uninstall the plastic fittings by turning the knob counterclockwise



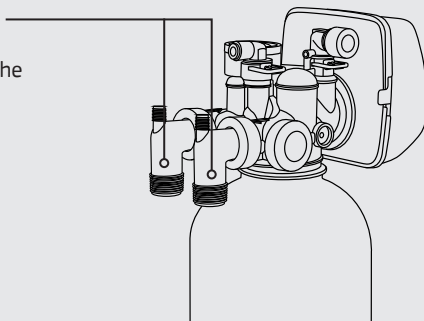
Connect the bypass assembly followed by the plastic fittings. Hand tighten the knobs, do not overtighten.

Refer to page 17 for bypass operation

7 Connecting the Multitrol System. Connect the Multitrol System to main plumbing. Do not solder brass adapters while they are inserted in the control module.

Apply plumbing tape to the nipple as required. Connect the pipe work to the valve, refer to page 9 for identification.

FOLLOW LOCAL
PLUMBING CODES

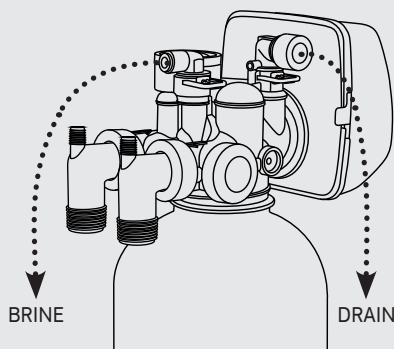


8 Connecting the drain line. Locate the 300mm drain tube and attach to the drain connection, refer to page 9 for identification of the drain port.

Connect extra tube (tubing not supplied) onto the 5/8" drain line from the valve to the drain. Ensure the drain line is not kinked. The line must not travel more than 2.4m up from the valve, otherwise increase the diameter of the drain line.

Connect drain and overflow to sewer or stormwater, whatever is approved by local authority for salty discharge water.

Ensure drain line has an adequate air gap of 2 times the pipe diameter or 25mm, whichever is larger.

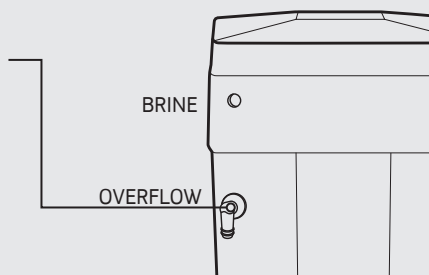


9 Connecting brine line

Locate Elbow Fitting in the Brine Tank, remove black tubing and dispose. Connect 2m length of 3/8 black tubing between Brine Line and Elbow Fitting. (refer to diagrams in step 8 and 10)

10 Connecting the overflow

Connect tubing onto the 5/8" overflow fitting (tubing not supplied) and run the line to the drain. **Do not connect the overflow into the drain line**, as it must be a direct and separate line to the drain. Allow an air gap as per the drain line. Make sure the drain is not higher than the overflow.



11 Programming

6.1 Plug into an uninterrupted electrical outlet.

Note: All electrical connections must be connected accordingly to local codes.

6.2 Proceed to 'Programming' section

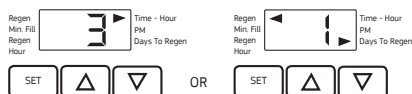
Programming - E1

GENERAL OPERATION

When the system is operating one of two displays will be shown. Pressing ▲ or ▼ button will alternate between the displays. One of the displays is always the current time of day (to the nearest hour).

The second display is the days remaining until the next regeneration. If the days remaining is equal to one, a generation will occur at the next present regeneration time. The user can scroll between displays as desired.

If the system has called for a regeneration that will occur at the present time of regeneration, the arrow will point to Regen.

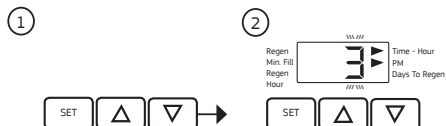


SET TIME OF DAY

Step 1: Press SET for 5 seconds

Step 2: Current time: set HOUR by using the ▲ + ▼ button then press SET. Repeat for MINUTES.

After a power outage, the time of day will need to be reset.



OTHER SETTINGS – these have been factory set (only adjust if required)

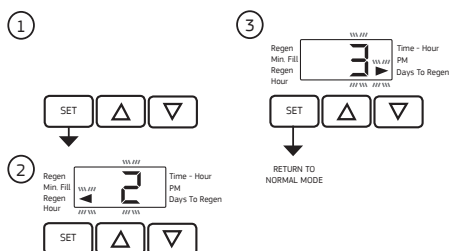
Step 1: From normal mode, press SET + ▲ buttons simultaneously for 5 seconds and release.

Step 2: Regeneration Time: Set the clock to the hour the regeneration should occur by using the ▲ or ▼ buttons. Once the hour is chosen, press SET and repeat for MINUTES. Factory setting is 2 AM. Press SET to go to STEP 3.

Step 3: Days to Regen: This is factory set to 3 (3 days between regenerations). The allowable range is 1 to 99. Refer to 'Regeneration' to set correct regen days.

Press SET to exit Installer Displays and Settings.

The system is factory set to regenerate at 2 AM. If there is a demand for water when the system is regenerating, untreated water will be used.



REGENERATION MODE

When the system begins to regenerate, the display will change to indicate the cycle of the regeneration process that is occurring and an arrow will also point to Regen. The system will run through the steps automatically and will reset itself to provide treated water when the regeneration is completed.

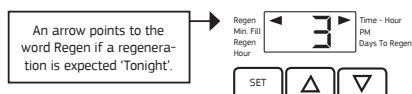


MANUAL REGENERATION

Sometimes there is a need to regenerate the system, sooner than when the system calls for it, usually referred to as a manual regeneration. There may be a period of heavy water usage because of guests or a heavy laundry day.

To initiate a manual regeneration at the preset delayed regeneration time, simultaneously press ▲ + ▼ buttons together and release. The arrow will point to the word Regen if a regeneration is expected 'tonight'. To cancel the regeneration simultaneously press ▲ + ▼ buttons and release.

To initiate a manual regeneration immediately, simultaneously press ▲ + ▼ buttons together for 3 seconds. The system will begin to regenerate immediately. The request cannot be cancelled.



POWER LOSS

If the power goes out current time of day will need to be reset. If the power goes out while the system is regenerating, the cycle picks up where

it was interrupted when the power returns.

Note: The display will flash if a power outage has occurred.

Start-up

Now programming is completed (if required) you are ready to start the system.

1. Fill the brine tank with 'water softener' salt to approximately half full. (salt not included). This will require approximately 60kg (this is only required initially).
2. Add approximately 15 litres of water to the salt in the brine tank. This is only required for the initial setup.

Note: The water level will drop significantly after the first backwash, and may disappear below the salt line. This is normal and no extra water will be required.

3. Open the nearest tap downstream of the filter system (after the filter system).
4. Allow water to flow through the system slowly, and allow all air to escape out of the closest tap. Wait until the water is flowing out of the tap and then increase the flow slowly up to full flow. Allow to run for 5 - 10 minutes.
5. Close the opened tap and check for leaks.
6. Conduct a full manual regeneration.
7. Your system is ready for use.

Regeneration

E1 Valve (Regeneration Time: 90 mins)

This valve is factory set to regenerate every third day. The required frequency of regeneration is dependant on the contaminates level and the amount of water used. Refer to the table below. To change the regeneration setting refer to the 'programming' section.

MODEL	CAPACITY OF SYSTEM (L) WITH DIFFERENT HARDNESS LEVELS				
	100 mg/L	200 mg/L	300 mg/L	400 mg/L	500 mg/L
MUL35-E1	1967	983	655	491	393
MUL50-E1	2753	1376	917	688	550
MUL70-E1	3933	1966	1311	983	786

Replenishment of Salt Supply

The salt storage capacity of the brine tank is approximately 100 kg. During each regeneration a small amount of salt is consumed, thus requiring periodic replenishment for a continuous supply of treated water (the frequency and salt dosage level is dependent on the regeneration schedule).

We recommend to maintain the salt level in the brine tank to 1/2 to 2/3 full. The water level in the brine tank is maintained automatically and does not require manual intervention. NOTE: The water level is usually below the salt level & therefore cannot be seen (this is not a problem).

Always replenish salt before the supply is exhausted.

Note: No extra water is required when topping up the salt level.

Type of Salt to Use

Any type of water softener salt may be used, but for best results, we recommend using coarse solar salt called "water softener salt" or alternatively "pool salt".

Brine Tank Clean-Out (Yearly)

To help prevent service problems the brine tank should be emptied and flushed out with a garden hose, when dirt and other insolubles accumulate on a regular basis. Shut off water inlet supply and depressurize the system before service.

Steps to follow:

1. Disconnect brine line at either end.
2. Turn brine tank upside down and discard old salt.
3. Rinse out with a garden hose.
4. Reconnect brine line.
5. Before loading salt, using a pail or garden hose, add approximately 15 Litres of water to the brine tank.

Media Replacement

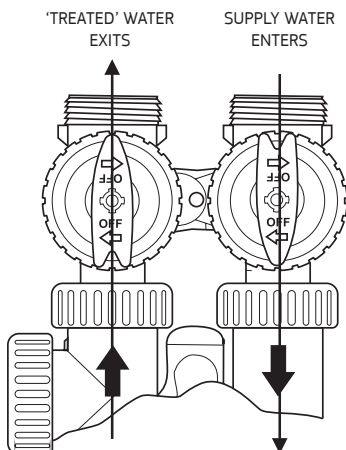
Resin ordering code: **RMK-MUL35** for MUL35-E1, **RMK-MUL50** for MUL50-E1 and **RMK-MUL70** for MUL70-E1.

Customer Service Helpline at **1300 140 140** (AU) and **0800 130 140** (NZ) for more details.

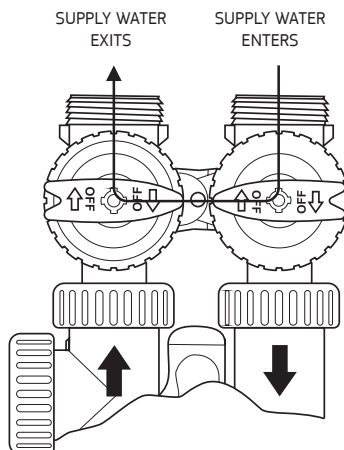
The nuts and caps are designed to be unscrewed or tightened by hand or with the special plastic wrench. If necessary a pliers can be used to unscrew the nut or cap. Do not use a pipe wrench to tighten or loosen nuts or caps. Do not place screwdriver in slots on caps and/or tap with a hammer.

Bypass Valve Operation - optional accessory

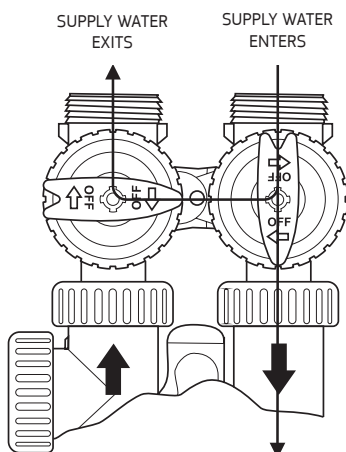
Normal Operation



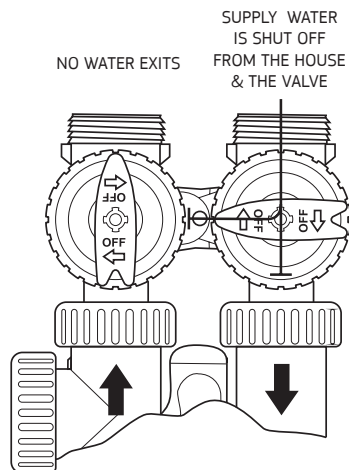
Bypass Operation



Diagnostic Mode



Shut Off Mode



Troubleshooting Guide

<p>'Dry' Reset Procedure</p> <p>From time to time, the valve may display an error code for various reasons. The first troubleshooting step is to perform a 'dry' reset.</p>	<p>Remove the faceplate, opening the tabs on either side of the valve. This will expose the Power Circuit board with a number of wires connected.</p> <p>On the bottom right hand corner is a 4 pin adaptor labelled '12VAC PWR', disconnect the adaptor and reconnect after 5 seconds. The valve will then whirl twice, and should return to the normal screen.</p> <p>If the error message is still present, refer to the troubleshooting guide</p>
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PROBLEM	POSSIBLE CAUSE	SOLUTION
No display/blank screen on valve	A. Transformer not connected	A. Connect transformer
	B. No power at outlet/source	B. Use working outlet/repair outlet
	C. Switched outlet/improper voltage	C. Use uninterrupted outlet/ensure source is delivering proper voltage
	D. Dead battery	D. Replace battery (CR2032)
	E. Defective transformer	E. Replace transformer
	F. Defective PC Board	F. Replace PC Board
Valve does not display correct time of day	A. Power outage(s)	A. Reset time of day, replace battery (CR2032)
	B. Time of day set incorrectly	B. Reset to correct time of day
	C. Switched outlet	C. Use uninterrupted outlet
	D. Tripped breaker switch	D. Reset breaker switch
	E. Defective PC Board	E. Replace PC Board
Valve regenerates at wrong time of day	A. Power outage(s)	A. Reset time of day, replace battery (CR2032)
	B. Time of day set incorrectly	B. Reset to correct time of day
	C. Time of regeneration set incorrectly	C. Reset regeneration time
Time of day flashes on and off	A. Power outage(s)	A. Reset time of day, replace battery (CR2032) and then perform a 'dry' reset
Valve does not regenerate when performing a manual regeneration	A. No power to valve	A. Refer to 'No display/blank screen on valve'
	B. Broken drive gear or drive cap assembly	B. Replace drive gear or drive cap assembly
	C. Broken piston rod	C. Replace piston rod
Valve does not regenerate automatically, but does when performing a manual regeneration	A. Bypass valve in bypass position/faulty	A. Turn bypass to normal operation/replace bypass
	B. Defective PC Board	B. Replace PC Board

Troubleshooting Guide

PROBLEM	POSSIBLE CAUSE	SOLUTION
Hard / Untreated water delivered to service	A. Bypass valve is in bypass operation/faulty	A. Turn bypass to normal operation/replace bypass
	B. Media is exhausted due to high water usage	B. Check program settings or diagnostics for abnormal water usage
	C. Fouled media bed	C. Clean/replace media
	D. Water quality fluctuation	D. Test water and contact Puretec for assistance
	E. No regenerant or low level of regenerant	E. Refill regenerant tank
	F. Valve fails to draw regenerant	F. Refer to 'Valve fails to draw in regenerant'
	G. Insufficient regenerant level in regenerant tank	G. Contact Puretec for assistance
	H. Leak from seal/spacer stack assembly	H. Clean/replace spacer stack assembly
Control valve uses too much regenerant	A. Incorrect refill setting	A. Contact Puretec for assistance
	B. Incorrect program setting	B. Contact Puretec for assistance
	C. Valve regenerating frequently	C. Check for leaking fixtures or system undersized.
Regenerant being delivered to service	A. Low water pressure	A. Check incoming water pressure – water pressure must remain at minimum of 25 psi
	B. Incorrect injector size	B. Replace injector with correct size for application
	C. Restricted/kinked drain line	C. Check drain line for restrictions or debris, or unkink drain line
Excessive water in regenerant tank	A. Incorrect program settings	A. Contact Puretec for assistance
	B. Plugged injector	B. Clean/replace injector
	C. Loose/damaged drive cap assembly	C. Tighten/replace drive cap assembly
	D. Leak from seal/spacer stack assembly	D. Clean/replace spacer stack assembly
	E. Restricted/kinked drain line	E. Check drain line for restrictions or debris, or unkink drain line
	F. Plugged backwash flow controller	F. Clean/replace backwash flow controller
	G. Plugged refill flow controller	G. Clean/replace refill flow controller

PROBLEM	POSSIBLE CAUSE	SOLUTION
Valve fails to draw in regenerant	A. Plugged injector	A. Clean/replace injector
	B. Regenerant piston failure	B. Clean/replace regenerant piston
	C. Leak in regenerant line	C. Inspect regenerant line for air leak
	D. Restricted/kinked drain line	D. Check drain line for restrictions or debris, or unkink drain line
	E. Drain line too long or too high	E. Shorten length and/or height
	F. Low water pressure	F. Check incoming water pressure – water pressure must remain at minimum of 25 psi
Water running to drain	A. Power outage during regeneration	A. Upon power being restored control will finish the remaining regeneration time. Reset time of day, replace battery (CR2032)
	B. Foreign material present in valve	B. Remove drive cap, piston and spacer assemblies. Clean and relubricate components, assemble the valve and run a manual backwash.
	C. Leak from seal/spacer stack assembly	C. Clean/replace spacer stack assembly
	D. Piston assembly failure	D. Clean/replace piston assembly
	E. Loose/damaged drive cap assembly	E. Tighten/replace drive cap assembly
Error Code - 1001 Control unable to sense motor movement	A. Motor not inserted fully into engage position, motor wires broken or disconnected	A. Disconnect power, make sure the motor is fully engaged, check for broken wires, make sure two pin connector is connected to the two pin connection on the PC Board labelled MOTOR. Connect power and perform a 'dry' reset.
	B. PC Board not correctly installed	B. Ensure PC Board is correctly clipped into drive bracket and perform a 'dry' reset
	C. Board unable to read middle reduction gear	C. Check foil on reduction gear; clean any foreign material on the foil
	D. Missing/damaged reduction gears	D. Replace missing gears
	E. Defective PC Board	E. Replace PC Board
Error Code - 1002 Control valve motor ran too short and was unable to find the next cycle position and stalled	A. Foreign material lodged in valve	A. Clean/replace piston/spacer stack assembly. Perform a 'dry' reset
	B. Mechanical binding	B. Check piston, spacer stack assembly, drive bracket and main drive gear interface. Perform a 'dry' reset
	C. Main drive gear too tight	C. Loosen main drive gear. Perform a 'dry' reset
	D. Incorrect voltage being delivered to valve	D. Check voltage of power source. Perform a 'dry' reset
	E. Incorrect programming	E. Contact Puretec for assistance

Troubleshooting Guide

PROBLEM	POSSIBLE CAUSE	SOLUTION
Error Code - 1003 Control valve motor ran too long and was unable to find the next cycle position	A. Motor failure during regeneration	A. Check motor connections. Perform a 'dry' reset
	B. Foreign material lodged in valve	B. Clean/replace piston/spacer stack assembly. Perform a 'dry' reset
	C. Drive bracket not correctly installed	C. Snap drive bracket in correctly. Perform a 'dry' reset.
Error Code - 1004 Control valve motor ran too long and timed out trying to reach home position	A. Drive bracket not correctly installed	A. Snap drive bracket in correctly. Perform a 'dry' reset.

Warranty

Any claim under this warranty must be made within 36 MONTHS of the date of purchase of the product. This product is warranted to be free of defect of material and workmanship for 36 months from date of purchase. To make a claim under the warranty, take the product and proof of purchase to place where you purchased the product, and they will lodge a Warranty Request with Puretec.

Puretec will pay your reasonable, direct expenses of claiming under this warranty. You may submit details and proof of your expense claim to place of purchase for consideration.

The warranty only applies if the product was used and/or installed in accordance with the user guide and/or installation instructions. This warranty is given in lieu of all other express or implied warranties and manufacturer shall in no circumstance be held liable for damages consequential or otherwise or delays caused or faulty manufacturing except as excluded by law.

Applicable to all above, is that the Warranties need to be approved by Puretec to ensure product was not incorrectly used, installed or claimed. False and incorrect claims will be pursued at Puretec's discretion, including chargeable inspection and labour costs incurred.

Warranty/Australia

This warranty is given by Puretec Pty Ltd, ABN 44 164 806 688, 37-43 Brodie Road, Lonsdale SA 5160, telephone no. 1300 140 140 and email at sales@puretec.com.au.

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty/New Zealand

This warranty is given by Puretec Ltd, Reg. No 4464398, 47 Allwill Drive, Cambridge NZ 3493, telephone no. 0800 130 140 and email at sales@puretec.co.nz.

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Consumer Guarantees Act. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.



Puretec®
PERFECTING WATER

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