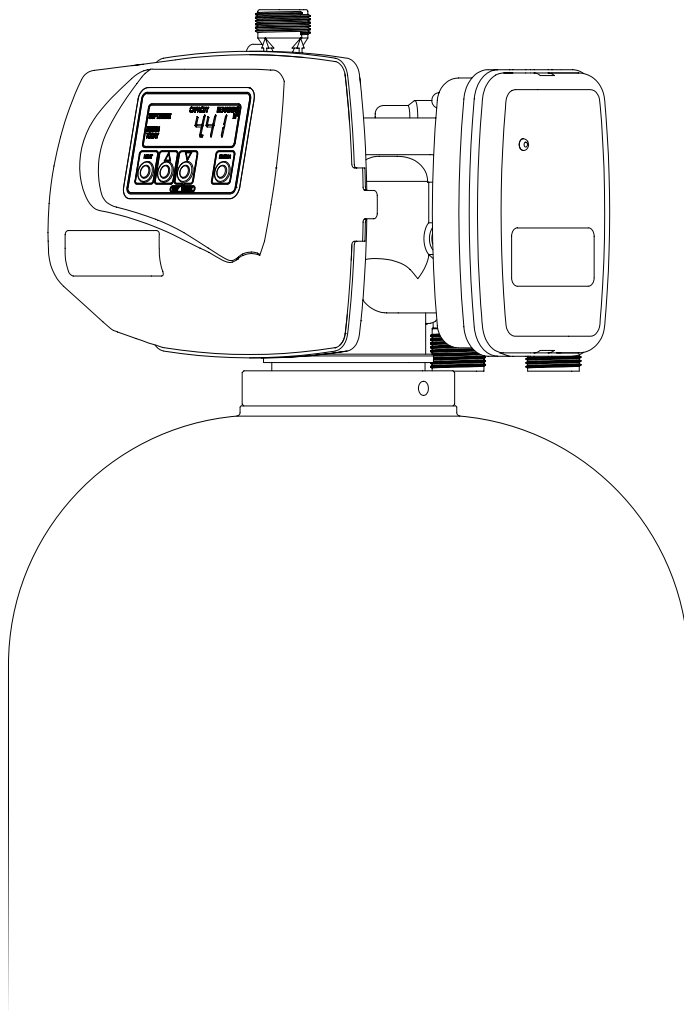




# I-STOP

*I-STOP-X & I-STOP-Z Series Iron Removal Systems User Guide*



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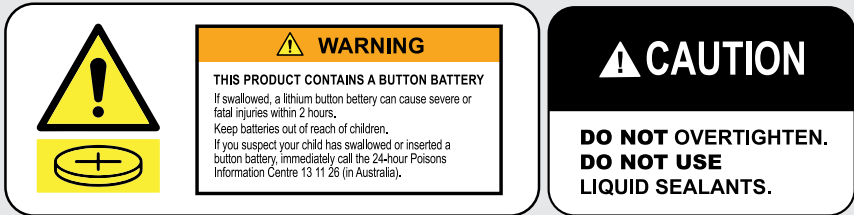
**WaterMark**  
WMTS103  
Licence No. WM 74593  
Pro-Switch Pty Ltd

## Puretec Customer Service

Thank you for purchasing a Puretec Water Treatment System. Your system is a proven performer manufactured from only quality materials and components. It will give years of reliability and trouble free operation, dependent on the initial installation and periodic maintenance.

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

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



### 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 petroleum jelly, 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. Thread seal 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 1".
- 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.
- Inadequate or infrequent backwashing may result in permanent damage to the filter media.
- Chloride and sulphate may interfere with iron removal. Additional treatment may be required where chloride + sulphate is more than half of the total alkalinity

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

## Before Installation

**Installation Note:** A water filter system/tap, like any product, has a limited life and may eventually fail. Also sometimes failure happens early due to unforeseen circumstances. To avoid possible property damage, this product should be regularly examined for leakage and/or deterioration and replaced when necessary. A drain pan, plumbed to an appropriate drain or outfitted with a leak detector, should be used in those applications where any leakage could cause property damage, and/or the water supply should be turned off if no one is home/present.

### 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. Specialised tools and skills are required, this must be completed by a qualified tradesperson. Faulty operation due to unqualified persons will result in voided warranty coverage.

### 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 assist with this service for you, and may send a sample to an independent laboratory for analysis and recommendations. Enter your analysis information on page 3 for your permanent record.

### Install Water Treatment Equipment Correctly

Select the location of your water filter 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 system in the supply line BEFORE the water heater. Temperatures above 43°C will damage the system and void the warranty.

- DO NOT install the 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.
- Protect from pressure vacuum with a suitable vacuum breaker.
- Allow sufficient space around the installation for easy servicing. Provide a non-switched 240V power source for the control valve.
- Protect from pressure vacuum with a suitable vacuum breaker.
- Where line pressure exceeds 500 kPa, an approved pressure limiting device must be installed to comply with Australian & New Zealand Plumbing Standards. (Ref. AS/NZS 3500.1:2021, Clause 3.3.4).
- For point of entry installations an approved backflow prevention device must be installed.

**Things to Remember While Planning Your Installation:**

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

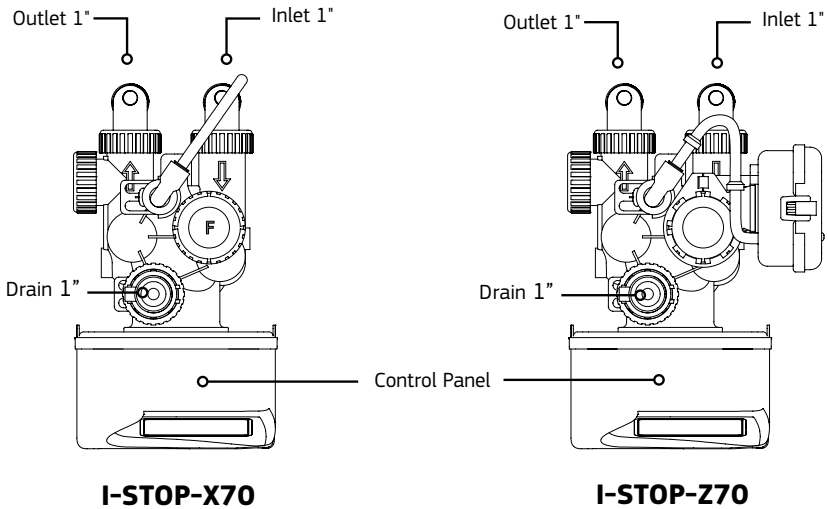
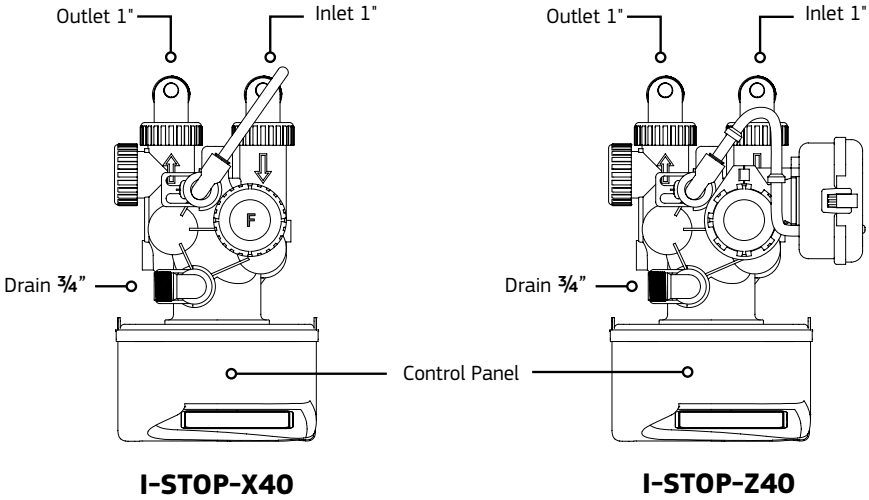
## Installation Record

For future reference, fill in the following data:

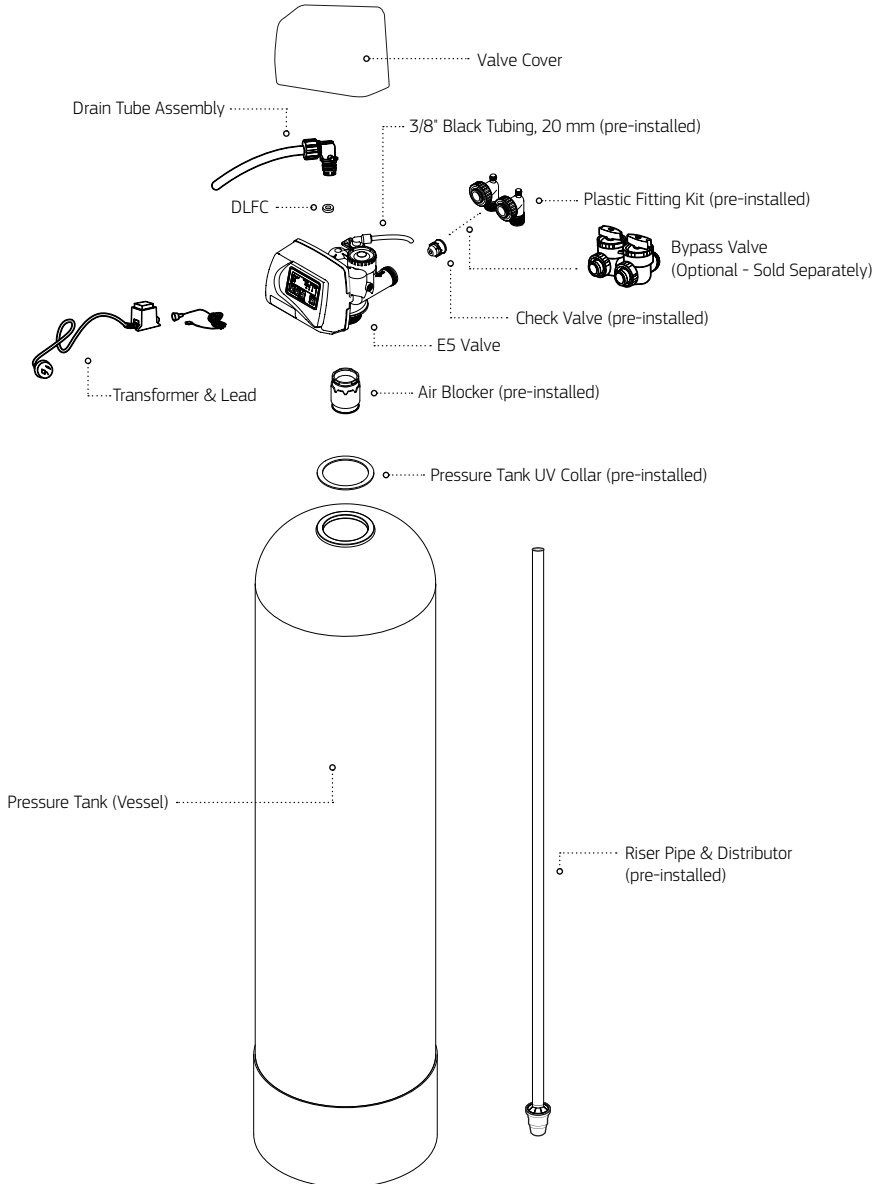
Product Information	
Model Number:	
Serial / Batch Number:	
Purchased from:	
Date of Installation:	
Installer / Plumber Details:	
Regen Frequency:	_____ Days

Water Analysis Information	
Hardness:	_____ ppm / mg/L
Iron:	_____ ppm / mg/L
Manganese:	_____ ppm / mg/L
pH:	_____
TDS (Total Dissolved Salts):	_____ ppm / mg/L
Hydrogen Sulfide:	_____ ppm
TOC (Total Organic Carbons):	_____ %
Dissolved Oxygen:	_____ ppt

**Diagram Identification - Valve Top View**



**I-STOP-X40 Exploded Diagram**





## I-STOP-X40 Model Information

### Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 43 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	1" Male BSPT
Drain:	¾" BSPM
Dimensions:	305 mm (W) x 1530 mm (H)

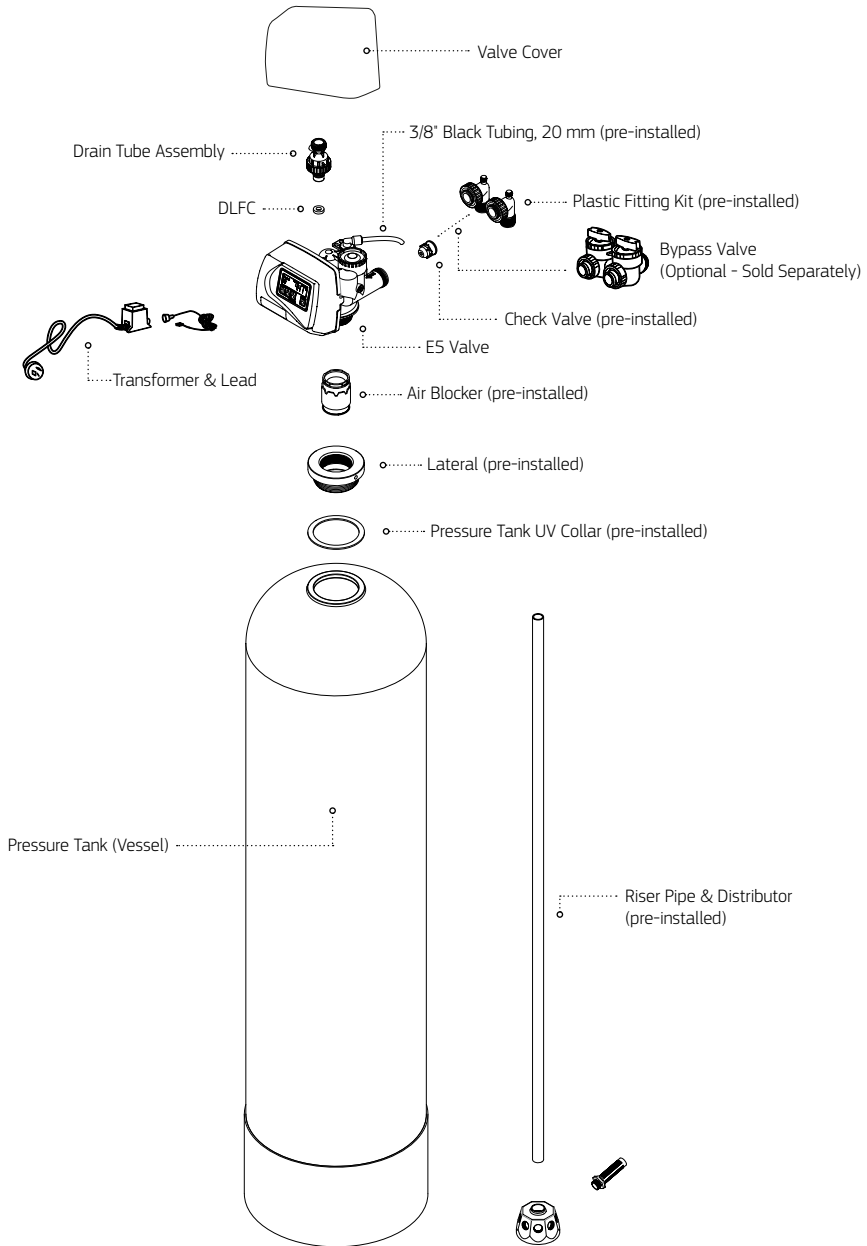
### System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Vessel & Valve Kit (I-STOPX40-K)	WTP2360	Pressure Tank with Base (12x52)	1
	WTV3030	Pressure Tank UV Collar Shield (pre-installed)	1
	WTD2130	Riser Pipe & Distributor (pre-installed)	1.83m
	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV4110	ES Valve	1
	WTV5110	Valve Cover Almond	1
	WTV4120	Air Blocker (pre-installed)	1
	WTV4121	Check Valve (pre-installed)	1
	KTU6BK-02	3/8" Black Tubing, 20 mm (pre-installed)	1
	WTV5070	Plastic Fitting Kit, 1" Elbow (set of 2) (pre-installed)	1
	LBL-LOGO-WTS	Puretec Logo Label	1
	LBL-METALLIC	Metallic Silver Model Label (60x100)	1
	UG-ISTOP	I-STOP Systems User Guide	1
	WTV1500	Media Funnel	1
	WTV5310	Drain Line Flow Connector (DLFC)	1
-	Drain Tube Assembly	1	
Media Kit	WTM7550-5L	Multi-media High Performance Medium 5L	1
	WTM3200-10L	Katamax Pro Media 10L (12kg)	1
	WTM3200-15L	Katamax Pro Media 15L (18kg)	3

### Vessel Media Filling Order

1st	2nd
1 x WTM7550-5L	1 x WTM3200-10L & 3 x WTM3200-15L

## I-STOP-X70 Exploded Diagram



## I-STOP-X70 Model Information

### Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 43 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	1" Male BSPT
Drain:	1" BSPM
Dimensions:	406 mm (W) x 1980 mm (H)

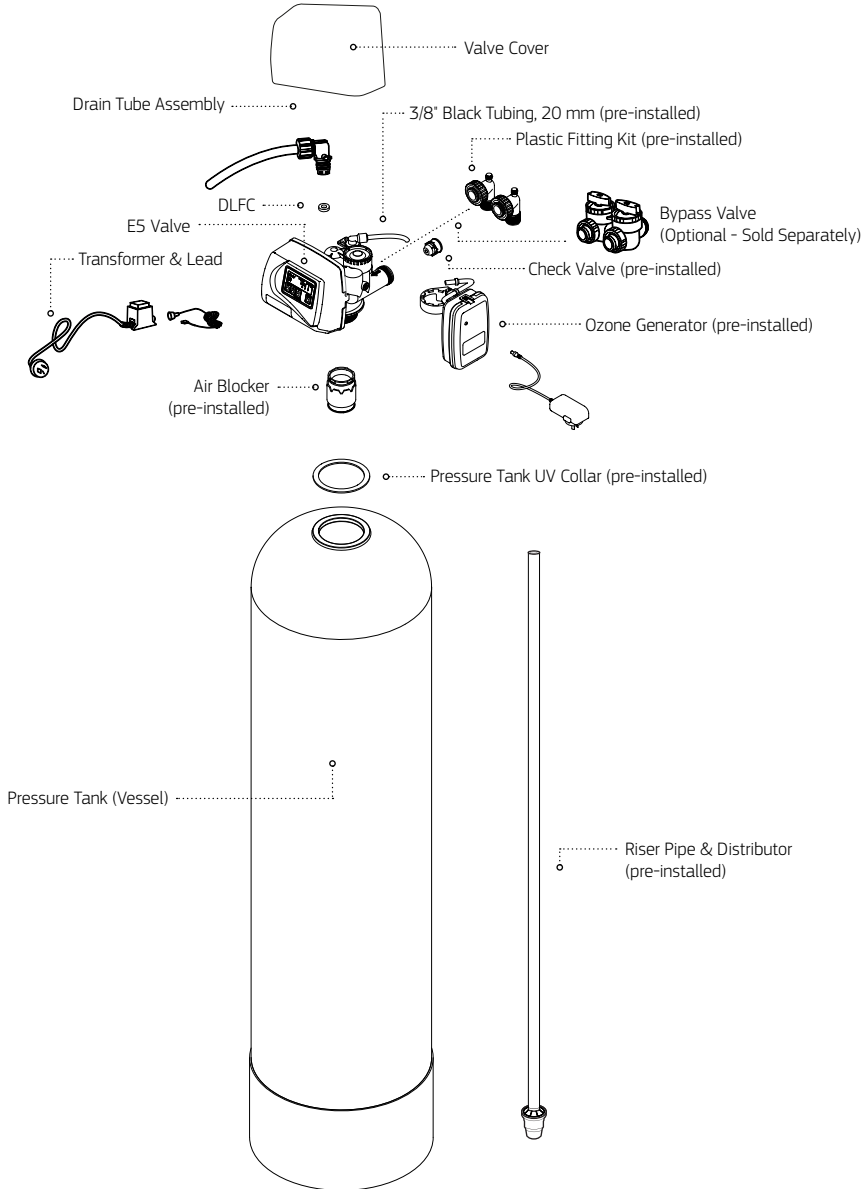
### System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Vessel & Valve Kit (I-STOPX40-K)	WTP2460	Pressure Tank with Base (16x65)	1
	WT-LAT90	Lateral 90mm (pre-installed)	1
	WTV3030	Pressure Tank UV Collar Shield (pre-installed)	1
	WTD3305	Riser Pipe & Disributor (pre-installed)	1.83m
	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV4110	E5 Valve	1
	WTV5110	Valve Cover Almond	1
	WTV4120	Air Blocker (pre-installed)	1
	WTV4121	Check Valve (pre-installed)	1
	KTU6BK-02	3/8" Black Tubing, 20mm (pre-installed)	1
	WTV5070	Plastic Fitting Kit, 1" Elbow (set of 2) (pre-installed)	1
	LBL-LOGO-WTS	Puretec Logo Label	1
	LBL-METALLIC	Metallic Silver Model Label (60x100)	1
	UG-ISTOP	I-STOP Systems User Guide	1
	WTV1500	Media Funnel	1
	WTV5345	Drain Line Flow Connector (DLFC)	1
-	Drain Tube Assembly	1	
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	1
	WTM3200-15L	Katamax Pro Media 15L (18kg)	7

### Vessel Media Filling Order

1st	2nd
1 x WTM7550-5L	7 x WTM3200-15L

## I-STOP-Z40 Exploded Diagram



## I-STOP-Z40 Model Information

### Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 43 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	1" Male BSPT
Drain:	¾" BSPM
Dimensions:	305 mm (W) x 1530 mm (H)

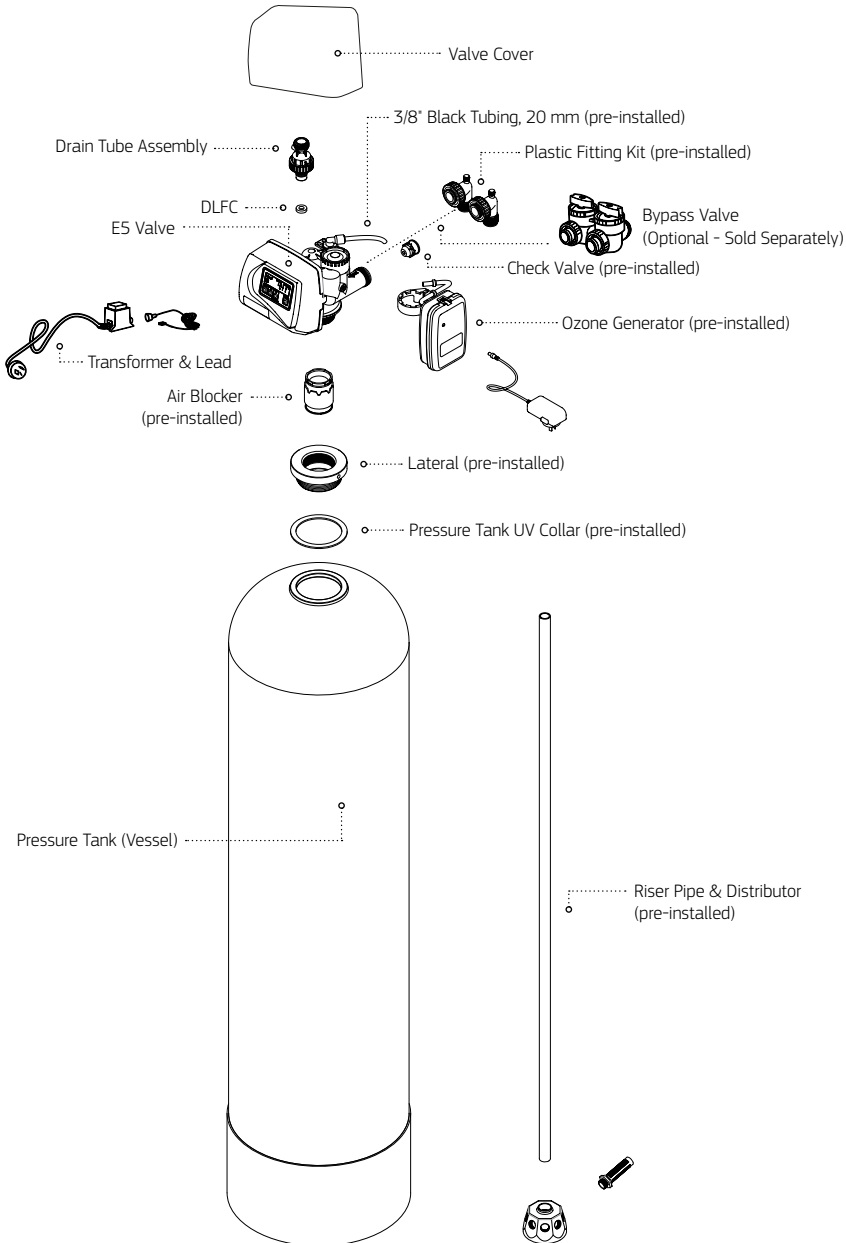
### System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Vessel & Valve Kit (I-STOPX40-K)	WTP2360	Pressure Tank with Base (12x52)	1
	WTV3030	Pressure Tank UV Collar Shield (pre-installed)	1
	WTD2130	Riser Pipe & Disbributor (pre-installed)	1.83m
	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV4110	E5 Valve	1
	WTV5110	Valve Cover Almond	1
	WTV4120	Air Blocker (pre-installed)	1
	WTV4121	Check Valve (pre-installed)	1
	WTV4122	Ozone Generator (pre-installed)	1
	KTU6BK-02	3/8" Black Tubing, 20mm (pre-installed)	1
	WTV5070	Plastic Fitting Kit, 1" Elbow (set of 2) (pre-installed)	1
	LBL-LOGO-WTS	Puretec Logo Label	1
	LBL-METALLIC	Metallic Silver Model Label (60x100)	1
	UG-ISTOP	I-STOP Systems User Guide	1
	WTV1500	Media Funnel	1
	WTV5310	Drain Line Flow Connector (DLFC)	1
-	Drain Tube Assembly	1	
Media Kit	WTM7550-5L	Multi-media High Performance Medium 5L	1
	WTM3200-10L	Katamax Pro Media 10L (12kg)	1
	WTM3200-15L	Katamax Pro Media 15L (18kg)	3

### Vessel Media Filling Order

1st	2nd
1 x WTM7550-5L	1 x WTM3200-10L & 3 x WTM3200-15L

## I-STOP-Z70 Exploded Diagram



## I-STOP-Z70 Model Information

### Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 43 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	1" Male BSPT
Drain:	1" BSPM
Dimensions:	406 mm (W) x 1980 mm (H)

### System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Vessel & Valve Kit (I-STOPX40-K)	WTP2460	Pressure Tank with Base (16x65)	1
	WT-LAT90	Lateral 90mm (pre-installed)	1
	WTV3030	Pressure Tank UV Collar Shield (pre-installed)	1
	WTD3305	Riser Pipe & Disbributor (pre-installed)	1.83m
	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV4110	E5 Valve	1
	WTV5110	Valve Cover Almond	1
	WTV4120	Air Blocker (pre-installed)	1
	WTV4121	Check Valve (pre-installed)	1
	WTV4122	Ozone Generator (pre-installed)	1
	KTU6BK-02	3/8" Black Tubing, 20mm (pre-installed)	1
	WTV5070	Plastic Fitting Kit, 1" Elbow (set of 2) (pre-installed)	1
	LBL-LOGO-WTS	Puretec Logo Label	1
	LBL-METALLIC	Metallic Silver Model Label (60x100)	1
	UG-ISTOP	I-STOP Systems User Guide	1
	WTV1500	Media Funnel	1
	WTV5345	Drain Line Flow Connector (DLFC)	1
	-	Drain Tube Assembly	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	1
	WTM3200-15L	Katamax Pro Media 15L (18kg)	7

### Vessel Media Filling Order

1st	2nd
1 x WTM7550-15L	7 x WTM3200-15L

## Installation Procedure

### 1 **Unpack the Equipment**

Ensure all parts are present and have not been damaged in transport. You should have:

- Valve Kit
- Vessel Kit
- Media Kit

See individual model information page for detailed kit inclusions.

### 2 **Extra Items Required**

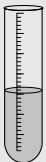


I-STOP-X70 & I-STOP-Z70 Models: 1" drain tube required.

I-STOP-X40 & I-STOP-Z40 Models: ¾" drain tube required.

### 3 **Ensure Water Has Been Tested**

Input values into table on Page 3 and the analysis has been inspected by Puretec.



Water Analysis Information	
Hardness	... 3.0 ... ppm / mg/L
Iron	... 0.8 ... ppm / mg/L
Manganese	... 0.4 ... ppm / mg/L
pH	... 7 ...
TDS / Total Dissolved Solids	... 275 ... ppm / mg/L
Conductivity	... 404 ... EC / uS/cm
Chloride	... 12.1 ... ppm / mg/L
Sodium	... 46 ... ppm / mg/L



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





4

#### Position the Water Treatment System on a Level Surface



**WARNING - THESE STEPS ARE CRITICAL FOR THE CORRECT INSTALLATION OF YOUR WATER TREATMENT SYSTEM.**

1. Select the location of your water treatment system with care. Various conditions which contribute to proper location are as follows:
2. Install as close as possible to a drain.
3. The unit must be installed on a surface that is firm, level, horizontal in both directions and fully supports the entire base of the softener. The softener can weigh a considerable amount when full and the base must be suitable to support this weight.
4. Install in correct relationship to other water treatment equipment. Contact Puretec for assistance.
5. Install the water treatment system in the supply line BEFORE the water heater. Temperatures above 110°F (43.3°C) will damage the system and void the warranty.
6. DO NOT install the treatment system in a location where freezing temperatures occur. Freezing may cause permanent damage and will also void the warranty.
7. DO NOT install where water hammer conditions may occur without installing an arrestor.
8. Allow sufficient space around the installation for easy servicing. Provide a non-switched 240V power source for the control valve.

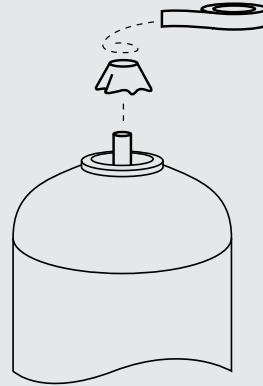
**5**

**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.

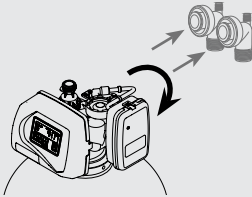
1. Position the system on a flat surface close to a drain or a properly trapped outlet, in a position when the system can service all lines requiring treated water. The system should be placed far enough away from any water heaters to avoid any hot water backflow into the system. A weatherproof power point 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 installation order found on the individual model information pages
4. Remove the plug or cover from the riser pipe making sure you do not lift the riser pipe. Top up tank with water.
5. Push the valve gently on top of the distributor tube (ensure the tube is properly inserted into the valve) seal to the thread, then screw on until firm (hand tight is usually sufficient).
6. Connect the DLFC to the valve.



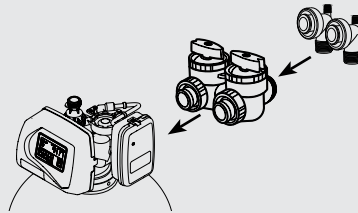
**Vessel Media Filling Order**

Fill vessel with media in the following order, according to your system model. See individual model information page for details.

## 6 Installing the Bypass (purchased separately)



Uninstall the plastic fittings by turning the knob counterclockwise.



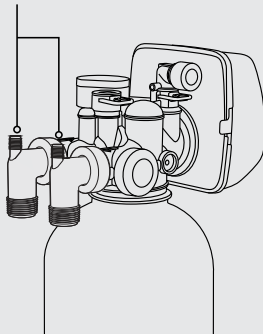
Connect the bypass assembly followed by the plastic fittings. Hand tighten the knobs, do not overtighten.

*Refer to page 19 for Bypass Operation.*

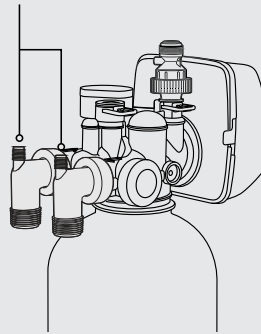
## 7 Connecting the System

Connect the 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 8 for identification.



**I-STOP-X40 & I-STOP-Z40  
Models**



**I-STOP-X70 & I-STOP-Z70  
Models**

**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 tradesperson. FOLLOW LOCAL PLUMBING CODES.

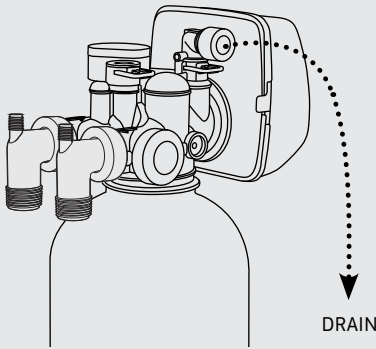
## 8 Connecting the Drain Line

Locate the drain tube and attach to the drain connection, refer to Page 8 for identification of the drain port.

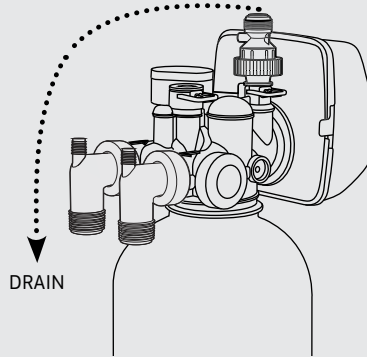
Connect pipe to the drain line connection on the valve to the drain. Ensure the drain line is not kinked. The line must not travel more than 2.4 m up from the valve, otherwise increase the diameter of the drain line.

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

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



**I-STOP-X40 & I-STOP-Z40  
Models**

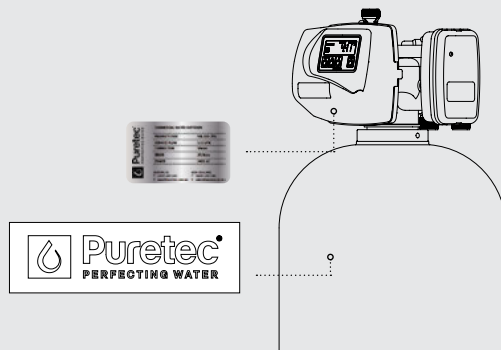


**I-STOP-X70 & I-STOP-Z70  
Models**

## 9 Labelling

Take the silver model label and position it under the control valve as shown in the diagram.

Take the Puretec label, and position it on the front of the vessel as shown in the diagram.



## 10 Programming

Plug transformer(s) into an uninterrupted electrical outlet.

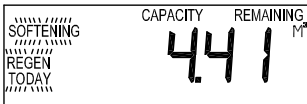
Note: the system transformers are not weather resistant and should be adequately protected. All electrical connections must be connected accordingly to local codes.

Proceed to 'Programming' section.

## Programming

### General Operation

When the system is operating one of two displays will be shown. Pressing 'NEXT' will alternate between the displays shown below.



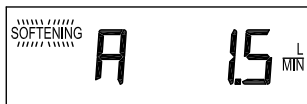
#### User 1

Typical user display. Shows volume remaining to regeneration. This screen will not be viewed if the control is set for time-clock operation.



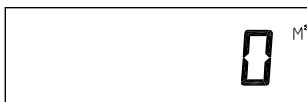
#### User 2

Displays number of days to next regeneration. Only viewed if volume set capacity or regeneration trigger is set to 'OFF'.



#### User 3

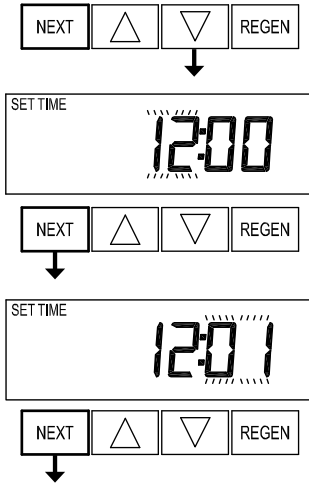
Displays flow rate L/min. If a metre is not used this display will be shown but '0' will be displayed. If 1.0Γ is selected in the valve selection of the configuration settings an 'A' in front of the flow rate indicates that the tank with the control valve on is in service. If 'b' is displayed the tank with the in/out head is in service.



#### User 4

Displays total volume in cubic metres since last reset. If metre is not used this display will be shown but '0' will be displayed.

Press ▼ for 3 seconds to reset to 0.



## Setting The Time of Day

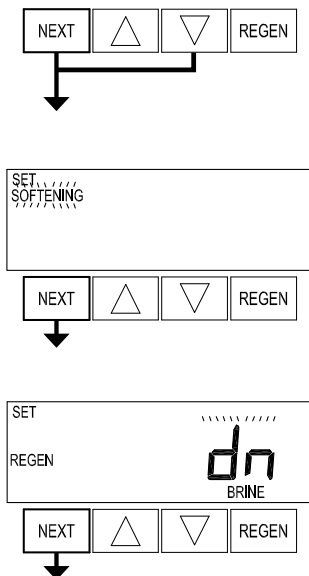
Push 'NEXT' until the time of day screen is displayed. Press and hold ▼ until 'SET TIME' is displayed and the hour flashes once. Press ▲ or ▼ until the correct minute is displayed.

Then press 'NEXT'. The minutes will flash. Press ▲ or ▼ until the correct minute is displayed.

Press 'NEXT' to return to the user displays. The time of day should only need to be set after a power outage lasting more than 8 hours, if the battery has been depleted and a power outage occurs, or when daylight saving time begins or ends. If a power outage lasting more than 8 hours occurs, the time of day will flash on and off, which indicates the time of day should be reset. If a power outage lasts less than 8 hours and a time of day flashes on and off, the time of day should be reset and the battery replaced.

## System Setup

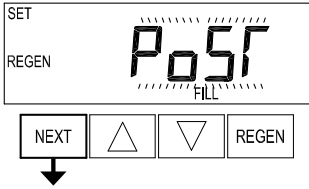
Press 'REGEN' at any time during the system setup to return to the previous step.



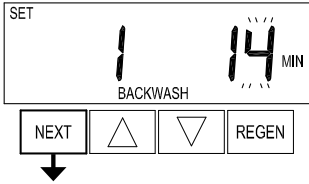
1. Press 'NEXT' and ▼ simultaneously for 5 seconds and release. If the screen in the next step does not appear, the lock on the valve programming has been activated. To unlock, press ▼, 'NEXT', ▲, 'REGEN' in sequence, then press 'NEXT' and ▼ simultaneously for 5 seconds and release.

2. Choose 'SOFTENING' using ▲ or ▼. Press 'NEXT' to go to Step 3. Press 'REGEN' to exit the system setup.

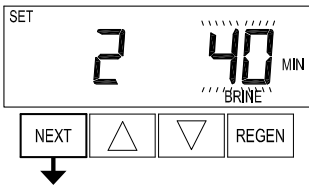
3. Choose the brine direction using ▲ or ▼. This screen is not viewed when Step 2 is set to filtering. Press 'NEXT' to go to step 4.



4. Set refill location using ▲ or ▼. Set to 'PoST'.
  - 'PoST' to refill the brine tank after final rinse; or
  - 'PrE' to refill the brine tank four hours before regeneration time set.
 Press 'NEXT' to go to step 5.



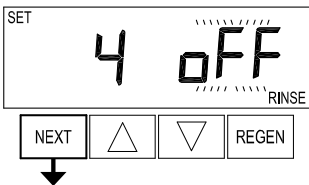
5. Select the time for the first cycle using ▲ or ▼. Set to 14 minutes. Press 'NEXT' to go to step 6.



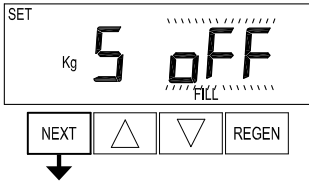
6. Select the time for the second cycle using ▲ or ▼. Set to 40 minutes. **Note: The display will flash between cycle number and time, and brine direction (UP or dn).** Press 'NEXT' to go to step 7.



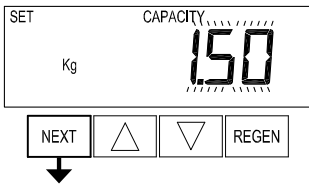
7. Select the time for the third cycle using ▲ or ▼. Set to 'OFF'. Press 'NEXT' to go to step 8.



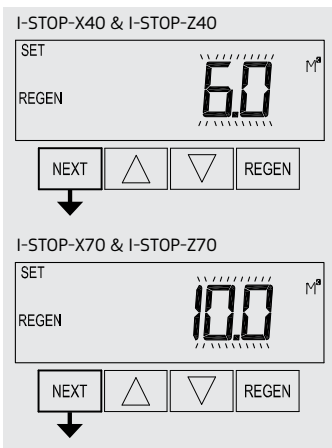
8. Select the time for the fourth cycle using ▲ or ▼. Set to 'OFF'. Press 'NEXT' to go to step 9.



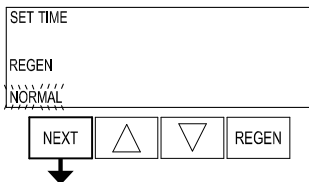
9. Select 'off' for the Kg in the fifth cycle using ▲ and ▼. Press 'NEXT' to go to Step 10.



10. Set the system capacity to 1.50 using ▲ and ▼. Press 'NEXT' to go to Step 11.



11. Set the volume capacity using ▲ and ▼. Set the value to 6.0 m<sup>3</sup> for I-STOP-X40 & I-STOP-Z40 systems & 10.0 m<sup>3</sup> for I-STOP-X70 & I-STOP-Z70 systems. Press 'NEXT' to go to Step 12.



12. Set regeneration time options to 'NORMAL' using ▲ and ▼. Press 'NEXT' to go to Step 13.



Flashes between these screens.



13. Set relay operation to 'SET TIME ON' using ▲ and ▼. Relay activates after a set time at the beginning of a regeneration and then deactivates after a set period of time. The start of regeneration is defined as the first backwash cycle or Dn brine cycle, whichever comes first.

Press 'NEXT' to go to Step 14.



14. Set the relay actuation time to 15:00 using ▲ and ▼. Press 'NEXT' to go to Step 15.



15. Set the relay deactivate time to 38:00 using ▲ and ▼. Press 'NEXT' to exit the system setup.

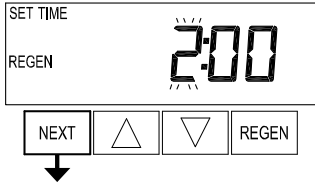
## Installer Display Settings



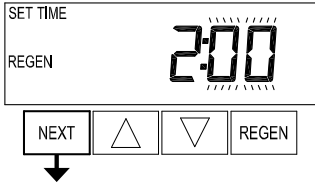
1. To enter the installer display settings press 'NEXT' and ▲ simultaneously for about 5 seconds and release.



2. Set the day override volume capacity to '3' using ▲ and ▼. Press 'NEXT' to go to Step 3.



3. Set the hour of day for regeneration to '2' using ▲ and ▼. Press 'NEXT' to go to Step 4.



4. Set the minutes of day for regeneration to ':00' using ▲ and ▼. Press 'NEXT' to exit installer display settings.

## Power Loss

Your Puretec electronic control valve maintains the time for up to 8 hours using the internal PCB battery if power is interrupted. Nonvolatile memory stores the stats & programming & are not affected by power outages. After 8 hours of backup use, replace the battery with a type 2032, 3-volt lithium coin cell battery. If the time flashes on & off after a power loss the time of day should be reset & the flat battery replaced.

In the unlikely event of a power loss during backwash, when power is restored, a dry-reset should be performed (refer to page 16 ), followed by a manual backwash/regeneration (refer to page 13) if convenient.

## Start-up

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

1. Open the nearest tap downstream of the filter system (after the filter system).
2. 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.
3. Close the opened tap and check for leaks.
4. Conduct a full manual regeneration.
5. Your system is ready for use.

## Regeneration

**E5 Valve** (Regeneration Time: 54 mins)

This valve is factory set to regenerate every third day. The required frequency of regeneration is dependant on the level of contaminates and the amount of water used.

To change the regeneration setting refer to the 'programming' section.

**WARNING:** Inadequate or infrequent backwashing may result in permanent damage to the filter media.

## Media Replacement

Series:	Model:	Media Replacement Code:
I-STOP-X	I-STOP-X40	<b>RMK-ISTOP40</b>
	I-STOP-X70	<b>RMK-ISTOP70</b>
I-STOP-Z	I-STOP-Z40	<b>RMK-ISTOP40</b>
	I-STOP-Z70	<b>RMK-ISTOP70</b>

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.

## Maintenance

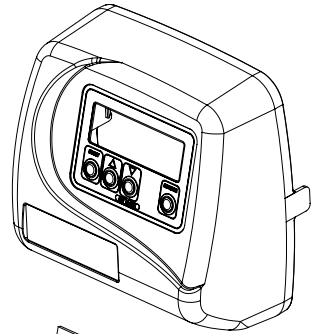
The LED of the Ozone Generator will start flashing orange, indicating the 12-month maintenance period, which includes cleaning or replacing the cell and replacing the check valve.

Order Code:	Description	Replacement Frequency
WTV4127	Cell Cleaning Kit	Every 12 months.
WTV4126	3/16 barbed check valve, 12 pack	Every 12 months during maintenance or if there is water dripping from the outlet.
WTV4123	Replacement Ozone Cell	Approx. 12 months or when the unit stops producing ozone. If the LED turns red during the draw cycle, this indicates it's time to replace the cell.
WTV4124	Cartridge Type Air Dryer Kit to suit WTV4122 (for humid environments)	-
WTV4125	Air Dryer Replacement Cartridge to suit WTV4124	As needed. Replace the cartridge if the colour changes to pink or if the water starts dripping from the air dryer outlet.

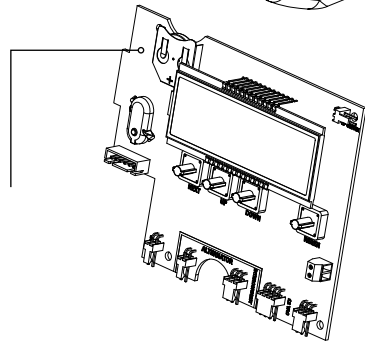


## Replace the Backup Battery

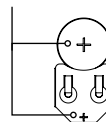
The backup battery (CR2032 coin) keeps the time in case of a power outage. The battery should be replaced annually or after extended periods without power. Replacement batteries can also be ordered using code: BA-CR2032 through your local Puretec dealer.



1. Turn off the power to the unit and remove the valve cover.
2. The coin battery (CR2032) is located in the top left hand corner of the PC Board.
3. Using a non conductive item (like the plastic end of a pen), poke the battery from underneath the battery mount and slide the old battery out.
4. Insert the new battery into the battery mount, ensuring it is fully seated and in the correct orientation (as shown).



Correct battery orientation.

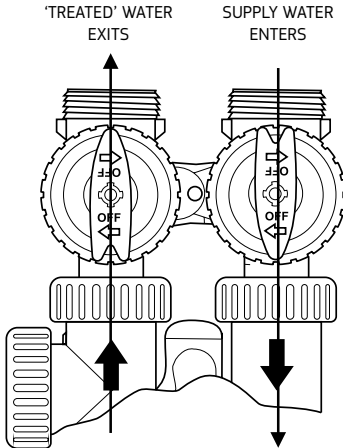


Battery is fully seated.

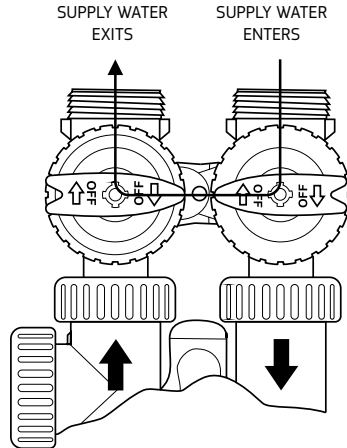
5. Replace the valve cover and switch the unit back on.
6. Reset the time if needed by following the time programming instructions in this user guide.

## Bypass Valve Operation - optional accessory

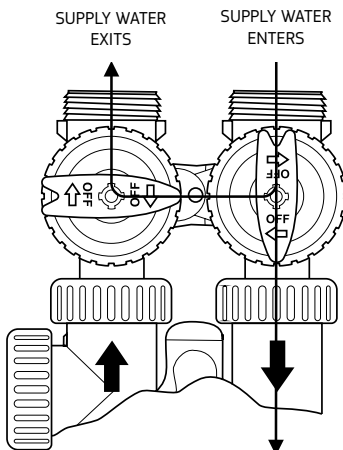
### Normal Operation



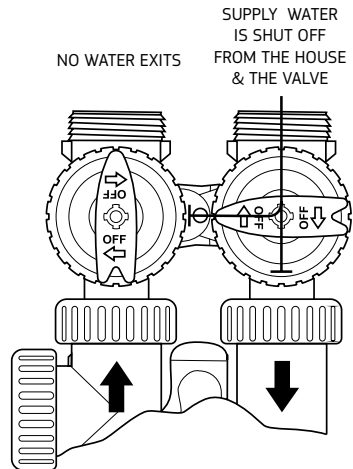
### Bypass Operation



### Diagnostic Mode



### Shut Off Mode



## Troubleshooting Guide

<p><b>‘Dry’ Reset Procedure</b></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.

PROBLEM	POSSIBLE CAUSE	SOLUTION
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.
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.
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.
	H. Leak from seal/spacer stack assembly.	H. Clean/replace spacer stack assembly.
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.



<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
<p>Error Code - 1001 Control unable to sense motor movement.</p>	<p>A. Motor not inserted fully into engage position, motor wires broken or disconnected.</p>	<p>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. Press NEXT and REGEN buttons for 3 seconds to resynchronize software with piston position or disconnect power supply from PC Board for 5 seconds and then reconnect.</p>
	<p>B. PC Board not properly snapped into drive bracket.</p>	<p>B. Properly snap PC Board into drive bracket and then Press NEXT and REGEN buttons for 3 seconds to resynchronize software with piston position or disconnect power supply from PC Board for 5 seconds and then reconnect.</p>
	<p>C. Missing reduction gears.</p>	<p>C. Replace missing reduction gears.</p>
<p>Error Code - 1002 Control valve motor ran too short and was unable to find the next cycle position and stalled.</p>	<p>A. Foreign material lodged in valve.</p>	<p>A. Open up control valve and pull out piston assembly and seal/ stack assembly for inspection. Press NEXT and REGEN buttons for 3 seconds to resynchronize software with piston position or disconnect power supply from PC Board for 5 seconds and then reconnect.</p>
	<p>B. Mechanical binding.</p>	<p>B. Check piston and seal/ stack assembly, check reduction gears, check drive bracket and main drive gear interface. Press NEXT and REGEN buttons for 3 seconds to resynchronize software with piston position or disconnect power supply from PC Board for 5 seconds and then reconnect.</p>
	<p>C. Main drive gear too tight.</p>	<p>C. Loosen main drive gear. Press NEXT and REGEN buttons for 3 seconds to resynchronize software with piston position or disconnect power supply from PC Board for 5 seconds and then reconnect.</p>
	<p>D. Incorrect voltage being delivered to PC board.</p>	<p>D. Verify that proper voltage is being supplied. Press NEXT and REGEN buttons for 3 seconds to resynchronize software with piston position or disconnect power supply from PC Board for 5 seconds and then reconnect.</p>

## Warranty

Any claim under this warranty must be made within 1 year of the date of purchase of the product. This product is warranted to be free of defect of material and workmanship for 1 year from date of purchase.

Puretec is renowned for its quality and after-sales support so if you have any issues please call 1300 140 140 (AU) or 0800 130 140 (NZ). To make a warranty claim, contact us directly or the place of original purchase. All costs relating to a warranty claim must be approved by Puretec prior to any work being carried out.

1 year warranty is 1 year parts and labour. 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

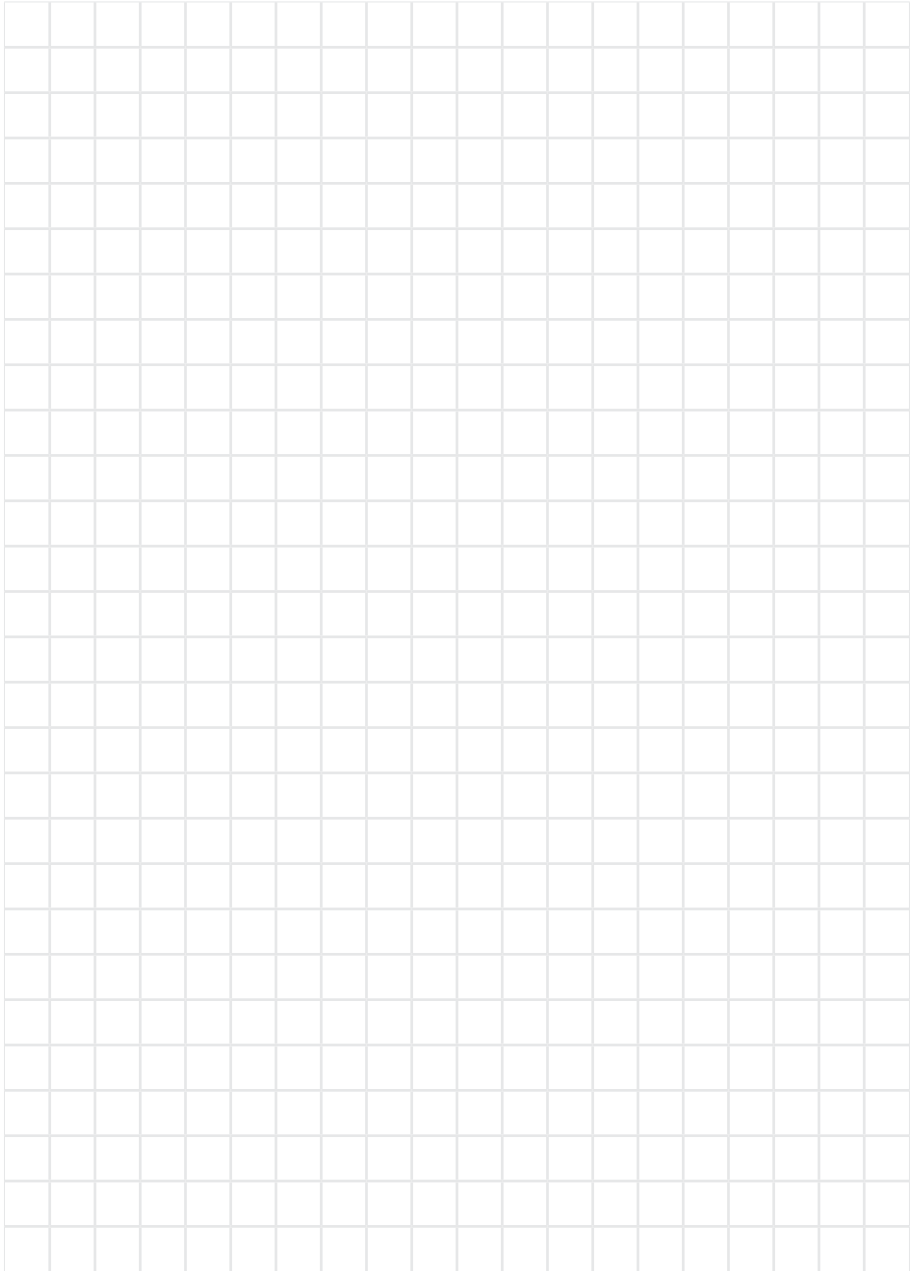
This warranty is given by Puretec Pty Ltd, ABN 44 164 806 688, 37-43 Brodie Road, Lonsdale SA 5160, telephone no. 1300 140 140 and email at sales@puretec.com.au.

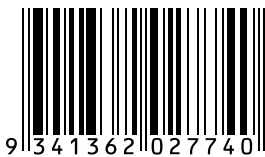
This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or 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 NZ LP, Reg. No 50081773, PO Box 13116, Hillcrest, Hamilton 3251 NZ, 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.





MAR2024

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