

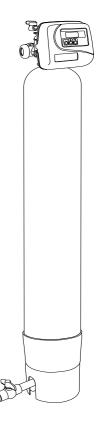


THIS PRODUCT CONTAINS A BUTTON BATTERY If swallowed, a lithium button bettery can cause severe or

fatal injuries within 2 hours. Keep batteries out of reach of children. If you suspect your child has swallowed or inserted a button battery, immediately call the 24-hour Poisons Information Centre 13 11 26 (in Australia).

ACAUTION

DO NOT OVERTIGHTEN. **DO NOT USE** LIQUID SEALANTS.



User Guide

UF10 Series

Membrane Filtration System



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Puretec Customer Service

Thank you for purchasing a Puretec Ultrafiltration 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 UF 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, this is dependent on the initial installation and periodic maintenance.

Flush system for 5 minutes or more after any period of non-use more than 2 weeks. Backwash system after and period of non-use more than 1 month.

Note: For point of entry installations an approved dual check backflow prevention device must be installed. When line pressure exceeds 690kPa a pressure limiting valve must be installed.

Note: Additional parts are required for installation, refer to 'Installation' section

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.

INSTALLATION SHOULD BE COMPLETED BY QUALIFIED TRADESPEOPLE. FAULTY OPERATION DUE TO UNQUALIFIED PERSONS WILL RESULT IN VOIDED WARRANTY COVERAGE.



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:	

Water Analysis Information		
Hardness:	ppm / mg/L	
Iron:	ppm / mg/L	
Manganese:	ppm / mg/L	
pH:		
TDS (Total Dissolved Salts):	ppm / mg/L	
Conductivity:	EC / uS/cm	
Tannin:	ppm	
Colour:	Hu	
Turbidity:	NTU	



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. Specialised tools and skills are required. Installation should be carried out by a qualified plumber.

Make Sure Your Water Has Been Thoroughly Tested

• An analysis of your water should be made prior to the selection of your water treatment 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.

Install Water Treatment Equipment Correctly

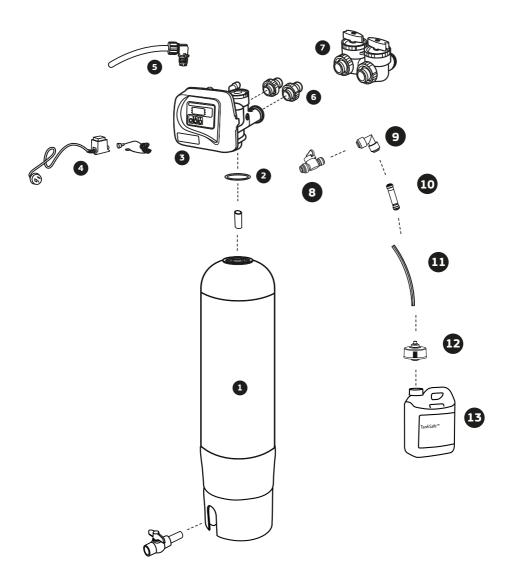
- Select the location of your system with care. Various conditions which contribute to proper location are as follows:
 - Install as close as possible to a drain
 - Installation of a 5 micron prefilter before the UF System is highly recommended, as this will protect the system fouling prematurely.
- Install in correct relationship to other water treatment equipment. Contact Puretec for assistance.
- Water temperatures outside 0-37°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.
- DO NOT subject the system to any vacuum, as this may cause the unit to 'implode' and leak. Please make provision for a vacuum breaker if there is a possibility of a vacuum occurring.
- Allow sufficient space around the installation for easy servicing. Provide a nonswitched 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 UF System, a larger model MUST be selected to accommodate the higher flow rate plus the backwashing requirements of the system. Contact Puretec for assistance.



Exploded Diagram

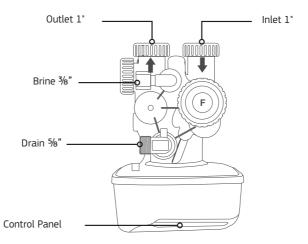




Replacement Parts

Item	Description	Product Code
1	Pressure Tank	-
2	Pressure Tank collar / UV sheild	WTV3030
3	Automatic Time Valve	WTV4000
4	Transformer, Suits Auto Valves	WTV5135
5	Drain Tube Assembly	-
6	1" Plastic Fitting Kit	WTV5060
7	Bypass Assembly (if purchased)	WTV5000
8	¾" Ball Valve	KSOV66
9	¾" − ¼" Reducing Elbow	KRS64
10	¼" Check Valve	KSCV44
11	3/8" Black High Pressure Tube	KTU6BK
12	Fitting Cap	TK-CAP2
13	2L TankSafe™ (if purchased)	TK2000

Diagram Identification







- 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 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.

Installation

- 1. Unpack the equipment. Locate and identify the parts as shown on page 6:
- 2. Extra items required (not supplied):
 - Bypass Assembly
 - 2L bottle of TankSafe
 - 5/8" tubing for drain

3. Ensure water has been tested, input values into Table on Page 4 and the analysis has been inspected by Puretec.

4. Position the system on a level surface.

Environmental Conditions Operating temperature: 0-45°C Water Conditions Temperature: 0-37°C Pressure: 350-690kPa Electrical supply – 240V, 50Hz uninterrupted outlet (weather protected)



5. Install the bypass (if purchased) or a manual bypass (add diagram for manual bypass).

6. Install a valve before and after system if no bypass is installed.

7. It is recommended to install pressure gauges before and after the system to monitor pressure loss (not supplied).

8. Connect the system to the main plumbing. Do not solder brass adaptors while they are inserted into the valve.

Apply plumbing tape to the fittings as required. Connect the pipework to the valve, refer to page 6 for identification of the inlet/outlet.

FOLLOW LOCAL PLUMBING CODES - Installation should be carried out by a qualified plumber.

9. Connect the Drain Line.

Locate the drain tube assembly. Remove the red clip from the drain port, refer to page 6 for identification of the drain port. Insert the drain tube assembly, and reinsert the red clip. Connect extra tube (tubing not supplied) onto the 5/8" drain line from the valve to the drain.

The length of drain line should be as short as possible.

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 to sewer or stormwater according to local guidelines. DO NOT connect to a septic tank. Ensure drain line has an adequate air gap of 2 times the pipe diameter or 25 mm, whichever is larger.

10. Connect the TankSafe Suction Line.

Locate the TankSafe suction assembly. Insert the assembly into the shut off valve and then connect the cap to a 2 L bottle of TankSafe (TankSafe not supplied). Ensure the TankSafe suction line is shut-off at the valve (see Page 6 for identification).

11. Ensure Flush Valve is closed. Connect flush valve to drain with 3/4" pipework (pipework not supplied).

Installation is now complete.



Start-Up - Bypass Installed

Programming is already pre-set, now that installation is completed you are ready to start the system (if required).

(If no bypass is installed, refer to Page 12)

1. Ensure the flush valve and TankSafe suction line valve are closed (see Page 6 for identification). Place the bypass valve into bypass operation (Page 11). Turn the water on slowly and run the water to the nearest tap downstream (after the filter system). This will flush out the pipework, however will not enter the UF System. Check for any leaks in the plumbing.

2. Press and hold the UP and DOWN arrows simultaneously and release when the valve goes into backwash, 'C1' will be flashing on the display to indicate when the unit is in backwash.

3. Press the DOWN arrow to advance the valve to the TankSafe draw cycle (valve will display 'C2'). Press the DOWN arrow a second time to advance the valve to the rinse cycle (valve will display 'C4'). Slowly open the inlet of the bypass valve halfway into the diagnostic mode (Page 9), this will allow water to enter the UF vessel and purge the air to the drain.

4. Once the UF vessel is full, water will start flowing out the drain. Now open the inlet valve completely into the diagnostic mode (Page 11) and allow water to drain for 20 minutes. This will allow for a complete flush of the system, and any preservatives used in the manufacturing process.

5. The valve will return to the normal service position after 20 minutes.

6. Repeat steps 2-5 with the bypass in diagnostic mode (Page 11), this will dispel any excess air from the system. Proceed to the next step when all the air has been purged by pressing the DOWN arrow a third time to advance the valve to the refill cycle (valve will display 'C5') and then press the DOWN arrow a final time to end the backwash (valve will display 'C0') Note: it is not necessary to flush the system for 20 minutes as per step 3.

7. Once the valve is in the normal service position, open the outlet of the bypass into the normal operation (page 11).

8. Open the nearest tap downstream of the filter system (after the filter system). Flush the system until the water is clear.

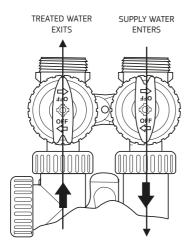
9. Close the opened tap and check for leaks.

10. Your system is ready for use.

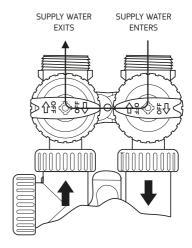


Bypass Valve Operation - optional accessory

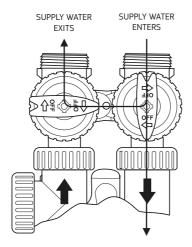
Normal Operation



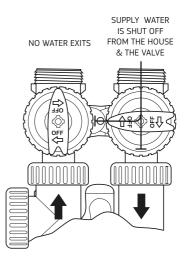
Bypass Operation



Diagnostic Mode



Shut Off Mode





Start-Up - NO Bypass Installed

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

(If bypass is installed, refer to Page 10)

1. Ensure the inlet valve, flush valve and TankSafe suction line valve are closed (see Page 6 for identification). Turn the water supply on, do not open the inlet valve. Note: The inlet valve will be opened in Step 3.

2. Press and hold the UP and DOWN arrows simultaneously and release when the valve goes into backwash, 'C1' will be flashing on the display to indicate when the unit is in backwash.

3. Press the DOWN arrow to advance the valve to the TankSafe draw cycle (valve will display 'C2'). Press the DOWN arrow a second time to advance the valve to the rinse cycle (valve will display 'C4'). Slowly open the inlet valve to half flow, this will allow water to enter the UF vessel and purge the air to the drain.

4. Once the UF vessel is full, water will start flowing out the drain. Now open the inlet valve completely, and allow water to drain for 20 minutes. This will allow for a complete flush of the system, and any preservatives used in the manufacturing process.

5. The valve will return to the normal service position after 20 minutes.

6. Repeat steps 2-5 with the inlet valve open this will dispel any excess air from the system. Proceed to the next step when all the air has been purged by pressing the DOWN arrow a third time to advance the valve to the refill cycle (valve will display 'C5') and then press the DOWN arrow a final time to end the backwash (valve will display 'C0') Note: it is not necessary to flush the system for 15 minutes as per step 3.

7. Once the valve is in the normal service position, open the outlet valve.

8. Open the nearest tap downstream of the filter system (after the filter system). Flush the system until the water is clear.

9. Close the opened tap and check for leaks.

10. Your system is ready for use.



Programming

GENERAL OPERATION

Plug 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.

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.

OR

(2

SET

SE

SET

SET

(1)

Λ

Λ



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 + A 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 regeneration: This is factory set to 1 (1 days between regeneration). The allowable range is 1 to 99. Refer to "Regeneration" to set correct regeneration days. Press SET to exit Installer Displays and Settings.

The system is factory set to regeneration 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 regeneration, 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.

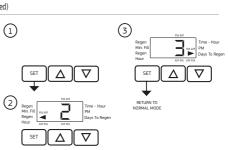
MANUAL REGENERATION

Sometimes there is a need to regeneration 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 \land + \checkmark buttons together and release. The arrow will point to the word Regen if a regeneration is expected 'tonight'. To cancel the regeneration simultaneously press \land + \checkmark buttons and release.

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





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



it was interrupted when the power returns. Note: The display will flash if a power outage has occurred.



Maintenance Schedule

Daily

Backwash (Automatic Operation)

The UF System is preset to automatically backwash every day at 2:00 am. The frequency and time of the backwash can be adjusted if required, refer to page 13 for instructions.

Total backwash cycle takes 35 minutes.

Weekly

Membrane Flush - Manual Operation

The UF system requires a weekly flush to purge any sediment and organic build-up from the system.

Open the flush valve slowly until the valve is completely open (see Page 6 for identification). Flush the system for 5 Minutes and then close the flush valve.

Monthly

TankSafe Backwash Clean - Manual Operation

The UF system requires a chemical backwash every month to cleanse the system from microbiological and organic build-up.

1. Ensure that the TankSafe suction assembly is connected, and there is 2 L bottle of TankSafe available.

Ensure cap is only loosely connected, allowing for air to pass into the container.

- 2. Open the TankSafe suction line valve (see Page 6 for identification) so that the handle is parallel with the tubing.
- 3. To perform a manual backwash, press and hold the UP and DOWN arrows simultaneously and release when the valve goes into backwash.
- 4. Once the backwash is complete, close the TankSafe suction line valve so that the handle is 90 degrees to the tubing.
- 5. Your system is ready for use.

NOTE: Do not leave TankSafe™ in direct sunlight.



Troubleshooting Guide

'Dry' Reset Procedure	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.
From time to time, the valve may display an error code for various reasons. The first troubleshooting step is to perform a 'dry' reset.	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 whir twice, and should return to the normal screen.
	If the error message is still present, refer to the troubleshooting guide

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.	 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.
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.



PROBLEM	POSSIBLE CAUSE	SOLUTION
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.
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 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. 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. 1 year warranty is 1 year parts and labour. Excludes consumables.

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 875 Cambridge 3450 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.





 AUSTRALIA
 NEW ZEALAND

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