

AlkaPure

Water to get excited about!

INSTRUCTION MANUAL For AlkaPure RO System Owner



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You've chosen the AlkaPure system that AlkaWay loves to deliver.

- Simple installation.
- Compact design suits any kitchen.
- 'Twist Quick' filter change system.
- Ultra efficient contaminant removal.
- State of the art membrane technology.
- NSF approved filter medium.
- **AlkaPure** has a fully automatic RO membrane flush to prolong the membrane's life (the membrane is the most expensive replaceable part in a RO system).
- **AlkaPure** auto leak detection for 24/7 security. Automatically turns off water and power.
- Auto water quality management computer.
- Auto filter change reminder computer.
- **AlkaWay** support and auto filter change reminders.
- Additional **AlkaPlus** ionising and alkalising cartridge for live water.
- DIY filter change (no expensive service calls).

We trust you'll receive many years of superb, pure, ionised alkaline water for a healthy home and family. We welcome your feedback.

Of all water purification methods, reverse osmosis is the most advanced, economical and effective. Reverse Osmosis has the ability to remove contaminants including dissolved solids and ALL other impurities. There is no conventional filter system that can equal its efficacy.

Reverse osmosis works by forcing water, using mains pressure, through a specially designed membrane.

Unbelievable as it may seem, the membrane can attract water molecules and repel dissolved impurities – even contaminants smaller than the water molecules themselves.

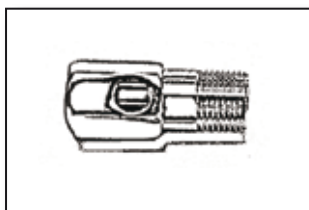
This system removes bacteria, viruses, parasites, heavy metals, inorganic chemicals, pesticides, algae, pharmaceuticals and more. With your Alkaway system you may be assured that you are drinking water of the highest quality possible and that you have made the best possible investment in your family's health.

Operating Criteria

System Pressure	30-960 psi (4kg/cm2)
Temperature	2-40 C
pH range	3-11
Maximum Supply TDS Level	2000 mg/l
Turbidity	<1.0 net Turbidity (NTU)

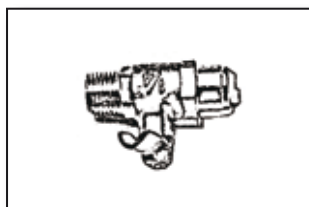
CAUTION: This system is not designed for use where water is microbiologically unsafe or of unknown quality

It is designed for use on potable water within the above conditions.



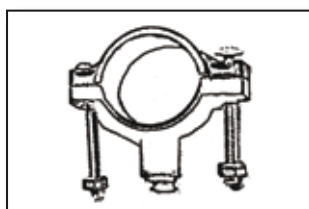
WATER SUPPLY CONNECTOR

Inline diverter of cold water to **AlkaPure**.



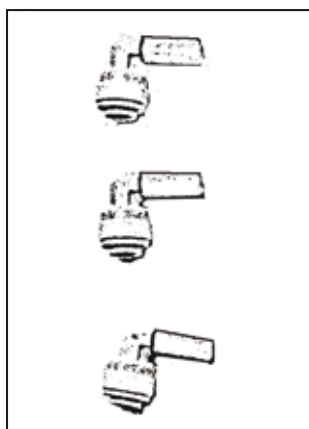
BALL VALVE

Screws into water supply connector and acts as a tap for **AlkaPure** inlet.



DRAIN CLAMP

Clamps over waste water drain and holds waste water outlet from **AlkaPure**.



'JOHN GUEST' QuickFit L-BENDS

Used to prevent kinks in hoses at rear of **AlkaPure** unit.



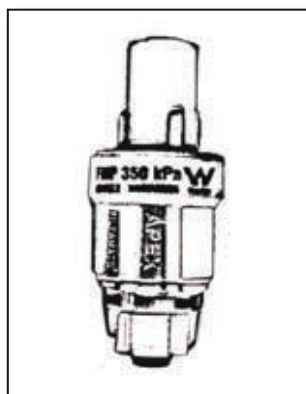
FAUCET MOUNT

Only used if not installing faucet in sink or benchtop.



ALSO SUPPLIED

- Parts for faucet hose joining
- 1/4" hose



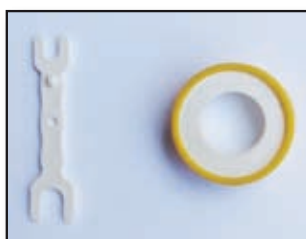
PRESSURE LIMITING VALVE

Australian Standards Approved. Also acts as non-return valve and anti-water hammer protection.



CERAMIC VALVE BENCHTOP FAUCET

Installed on sink or benchtop and connected to **AlkaPure**.



'JOHN GUEST' TOOL

For removing filters and Teflon plumber's tape for sealing pipes.



TOOLS YOU'LL REQUIRE

- Drill
- Shifters
- 12mm hole drill
- Phillips head screw driver
- 1/4" drill bit (not shown)



- Decide where you want the system to be installed. Avoid locations that may come into contact with hot water, corrosive chemicals or hot water pipes.
- Decide on the location for your faucet.
 - Ensure any hole drilled will not interfere with pipes or wires.
 - The closer the system to the faucet, the better flow rate you will achieve.
- Feed water must not be hot. Hot water will damage the RO system.
- Only connect to the cold water inlet.
- Clear away a space under your sink to work.
- You must install the Pressure Limiting Valve included to conform to Australian Standards.
- Feed water pressure may not be lower than 0~0.3kg/cm² (0~5psi). If it is you will need a pump. Demand pumps fitted to water tanks may not give smooth pressure and may cause operational problems.
- Do not install the system in consistently wet, or low temperature (less than 4°C) or consistently high temperature (over 40°C) locations.
- If you do not already have a power point under your sink you will need to get one installed.
- Your white hose will be used for three different connections. Determine how long these hoses need to be to allow easy access to the **AlkaPure** for changing filter cartridges.
- Turn off your mains water before beginning.

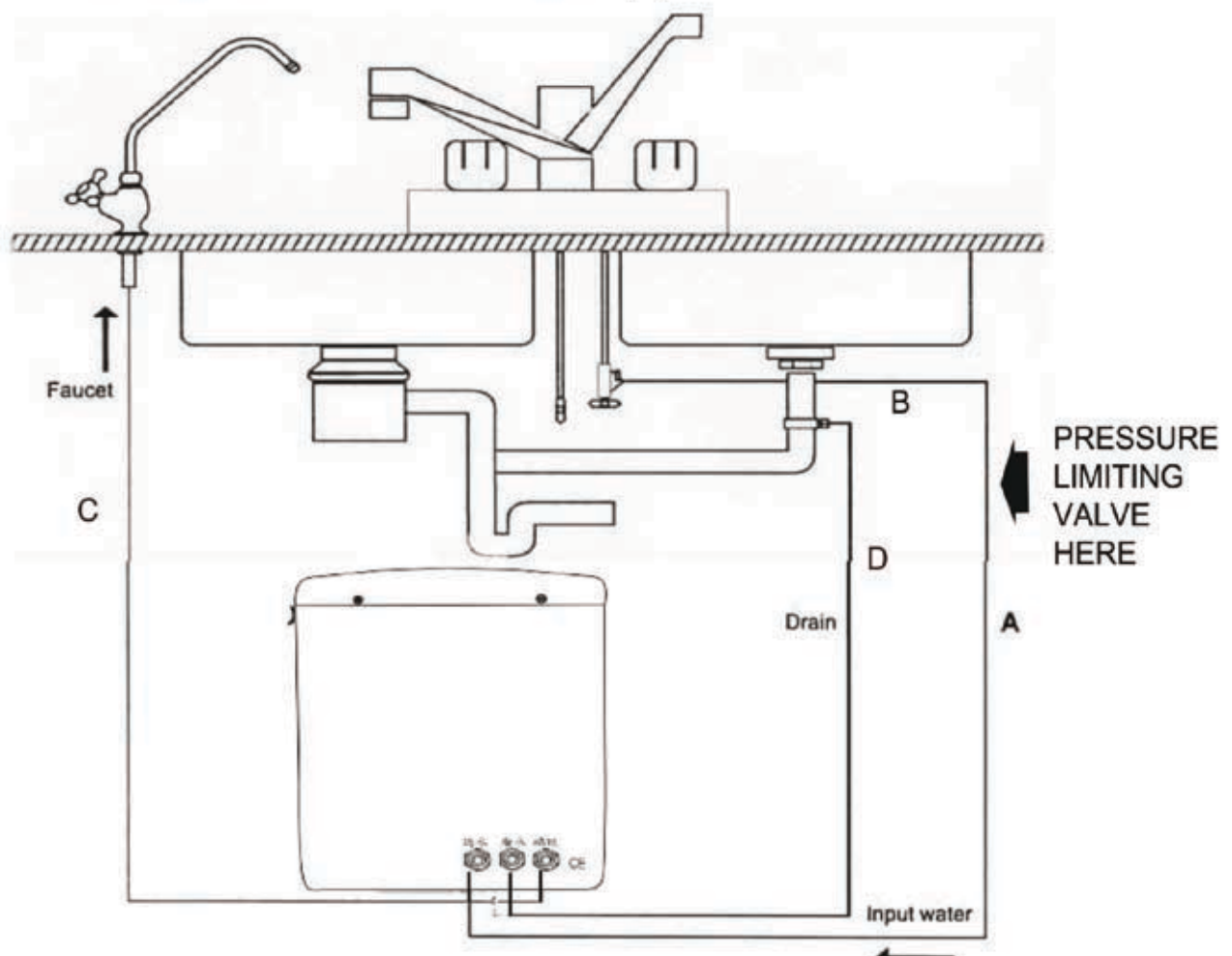
How it All Fits Together

A Connects AlkaPure to Pressure Limiting Valve.

B Connects Pressure Limiting valve to Water Supply Connector.

C Connects AlkaPure to faucet

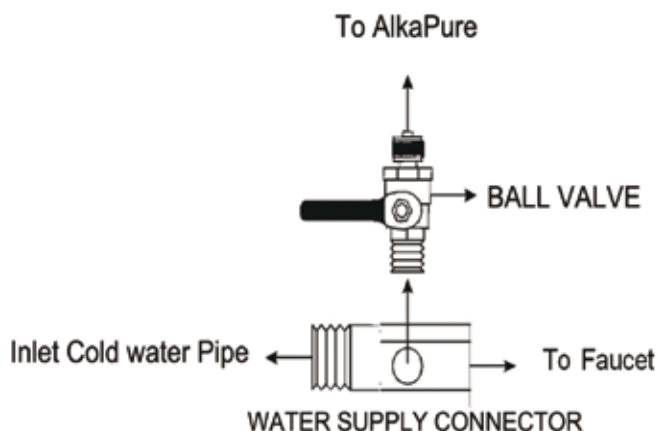
D Connects AlkaPure to Drain saddle on Kitchen Drain pipe.





Connecting to your Water Supply

STEP ONE



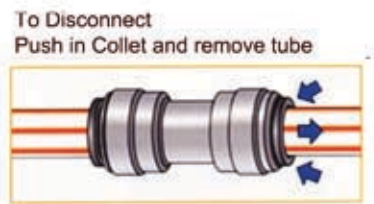
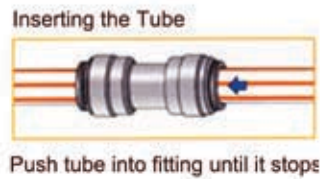
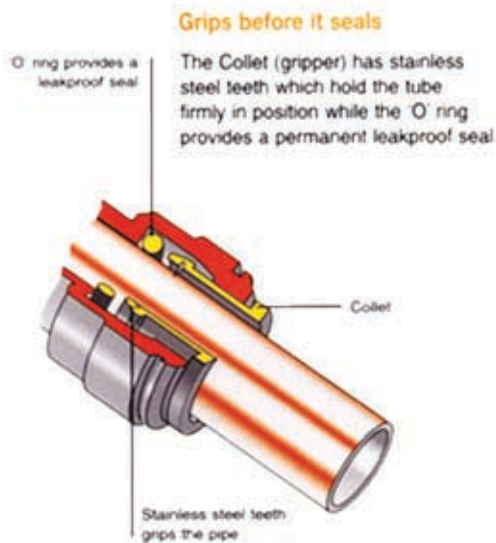
The Water Supply Connector is installed between your cold water supply pipe and your faucet's cold water inlet hose under the sink.

1. Turn off mains water.
2. Using 5-6 wraps of Teflon tape, screw Ball Valve into Water Supply Connector. Disconnect mains inlet from faucet cold water inlet.
4. Using 5-6 wraps of Teflon tape, install Water Supply Connector between cold water inlet and faucet cold line. Tighten the connector carefully ensuring you do not kink copper pipes.
4. Turn Ball Valve OFF and restore mains pressure to test.

Estimated time for this task: 30 minutes.

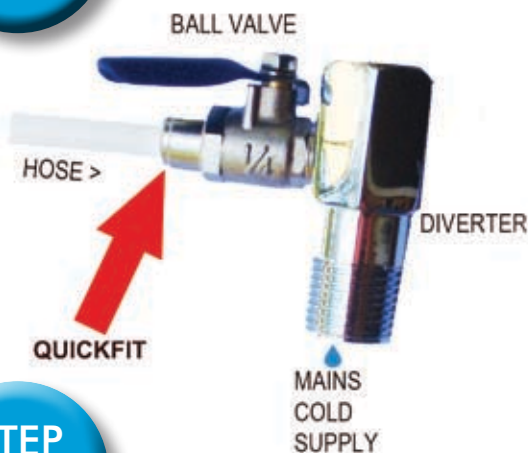
Stages of Purification

Description	Features/Removes	Exchange Period
1. Sediment Re-order Code: ST 05	Protects and extends the life of the RO Membrane. Removes dirt, grit, rust particles.	6 months depending on input water TDS
2. Active Carbon Re-order Code: ST 33	Also protects the RO Membrane from chlorine degradation. Removes odour, chlorine, organic pollutants, THM's, TCE's pesticides, colour.	6 months
3. Carbon Block Re-order Code: ST CTO	Further removes contaminants that may have passed filter 2, thus giving maximum protection to the RO Membrane.	6 months
4. RO Membrane Re-order Code: AlkaPure Membrane	Virus, bacteria, heavy metals, aluminium, lead, mercury, etc.	1-2 years
5. Taste and Odour Reduction Re-order Code: TOR	'Polishes' the water for superb taste.	12 months
6. AlkaPure	Alkalises, ionises and micro-clusters purified water.	12 months



Make sure you turn off water at Ball valve and turn on faucet before attempting to open QuickFits

STEP TWO



STEP THREE



Attaching the Mains Supply Hose

Once you have installed the Water Supply Connector on your cold water line, attach your 1/4" hose to the Ball Valve.

NOTE: Ensure sufficient length for servicing purposes before cutting.

THIS IS THE HOSE YOU ARE ATTACHING YOUR IN-LINE PRESSURE LIMITING VALVE TO.

Attaching the Pressure Limiting Valve

Using the integrated **QuickFit** Connectors in the valve, attach it anywhere along the hose from the Water Supply Connection to the **AlkaPure**.

It may be mounted on a wall, but there is no need.

NOTE: Correct direction of flow. An arrow is imprinted on the valve casing.



Installing the Drain Clamp and Faucet

Installing the Drain Clamp

STEP FOUR

VIP TIP

CUTTING HOSES TO LENGTH

It's often convenient to remove the **AlkaPure** from under the sink to install new filter cartridges. Therefore all hoses may be cut to allow enough length to lift the **AlkaPure** out and place on the bench without removing any hoses. Also, all hoses should have sufficient length to prevent kinking. Note that this applies to the drain, inlet and faucet, hoses.



1. Choose a point above the S-Bend where as little waste water as possible flows from the sink (second sink drain is best).



2. Drill a 1/4" hole in the drain pipe above the half way mark. This prevents drain water entering the hose. Attach the supplied adhesive patch with the patch hole over the drill hole.



3. Use a screwdriver to align the drill hole while you tighten the clamp.



4. Insert the hose to the depth of the drainpipe's outer rim. Do not insert further as drain detritus may catch and accumulate on it inside the pipe. The **QuickFit** fitting will clamp onto the hose.

Installing the Faucet

STEP FIVE



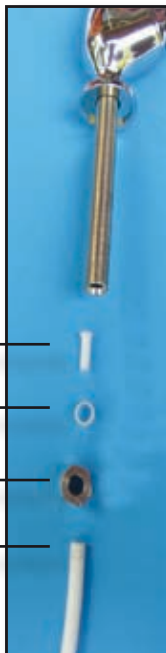
1. You need to drill a 12mm hole. This may be through stainless steel or a variety of materials. Check with your hardware store to get the right hole drill.
2. To create the hole, use a punch to make a 'starter' hole. This will prevent the drill from moving when you begin.
3. Add top of bench washer to faucet stem.
4. Insert faucet into hole.
5. Add other washers, spring washer and nut from underside and tighten with shifter.



Connecting the Faucet to the Hose

STEP SIX

Tube Insert
Compression Ring
Metal Nut
Tube



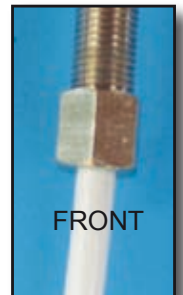
Slide the Metal Nut over the Tube.



Slide the Compression Ring over the Tube.



Insert the Tube Insert into the Tube, right down to its rim (flush with the tube end).



Insert the Tube into the faucet pipe. Slide the Nut over the Compression Ring and onto the faucet. Push Nut, Compression Ring up to Tube insert. Attach to faucet thread. Tighten well.

Connecting AlkaPure to Hoses

STEP SEVEN



Note: Correct inlet connectors on rear of AlkaPure.



1. Insert QuickFit L-Bends into **AlkaPure** connectors.
2. Insert Ball Valve hose into L-Bend.
3. Insert Drain Clamp hose into drain L-Bend.
4. Insert faucet hose into faucet L-Bend.



Installation Checklist

Before sliding **AlkaPure** into cupboard, we need to be able to open side panels. This will allow easy access for future filter changes and full access in case of a leak inside the case.

1. To allow easy access for future filter changes, unscrew 3 screws at rear edge of each side panel.
2. To check for leaks, turn on water at Ball Valve.

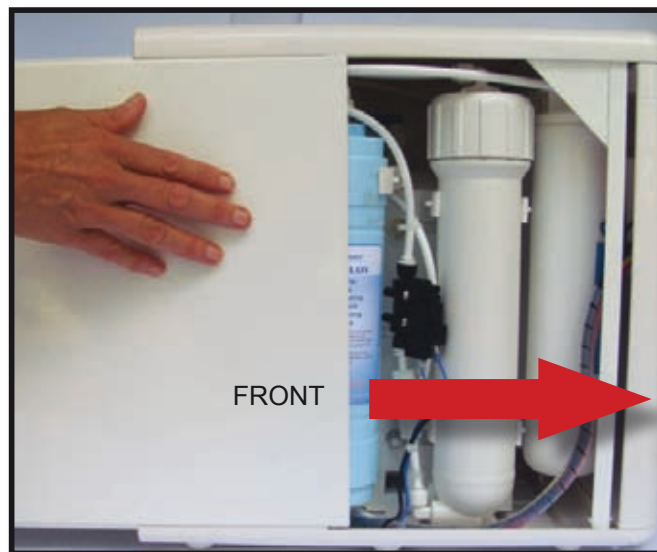
If leaks occur:

1. Identify the hose connection that leak is coming from.
2. Turn off water supply at Ball Valve.
3. Push hose into connector to ensure a tight fit.
Note: System water pressure may make internal QuickFit connectors hard to release. If so, remove the cold water connection hose to reduce pressure.

Powering up:

1. Connect to power source and turn on power.
2. Unit will show '8' on computer display.
(As the inbuilt tank fills, this will change to the actual water quality reading on your water, usually between 6-9.)
3. Turn on faucet.
4. Leave faucet on for 30 minutes to allow filter detritus to pass through. It will flow very slowly.
5. Open the faucet. A slow stream will run for about an hour. This removes the fines (loose carbon) that may get through the system on first use.
6. Turn off faucet. This allows the pressure tank to fill. Within 15 minutes you can turn on the faucet and get full normal pressure.

AlkaPure's filter replacement and auto cleanse functions are pre-set for Australian conditions at the factory. If you need to change any settings, go to the section 'Altering Default Settings'.

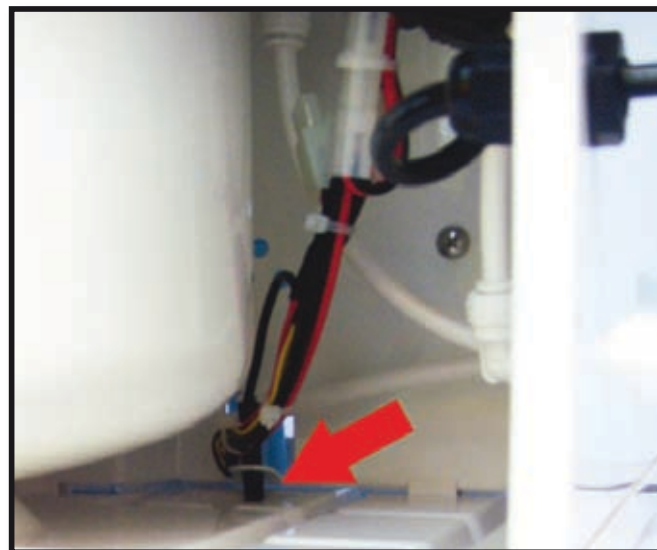


Auto Leak Detector

The auto leak alarm will begin an audio signal beep if water has gathered in the sensor point. It will not stop until dry. If leaks have occurred, turn off the water and power and fix them.

You may use paper towels and hair dryer to assist drying. This usually takes around 10 minutes.

Take care to keep hair dryer away from any water.



4 minutes later, the unit will begin testing YOUR water and the number may change. This will indicate the real-time result after processing your water.

The 'OK' light will also show.

The 'POWER' light (last on left) will also show.

The green 'SOURCE' light will also show, indicating normal water supply is working.

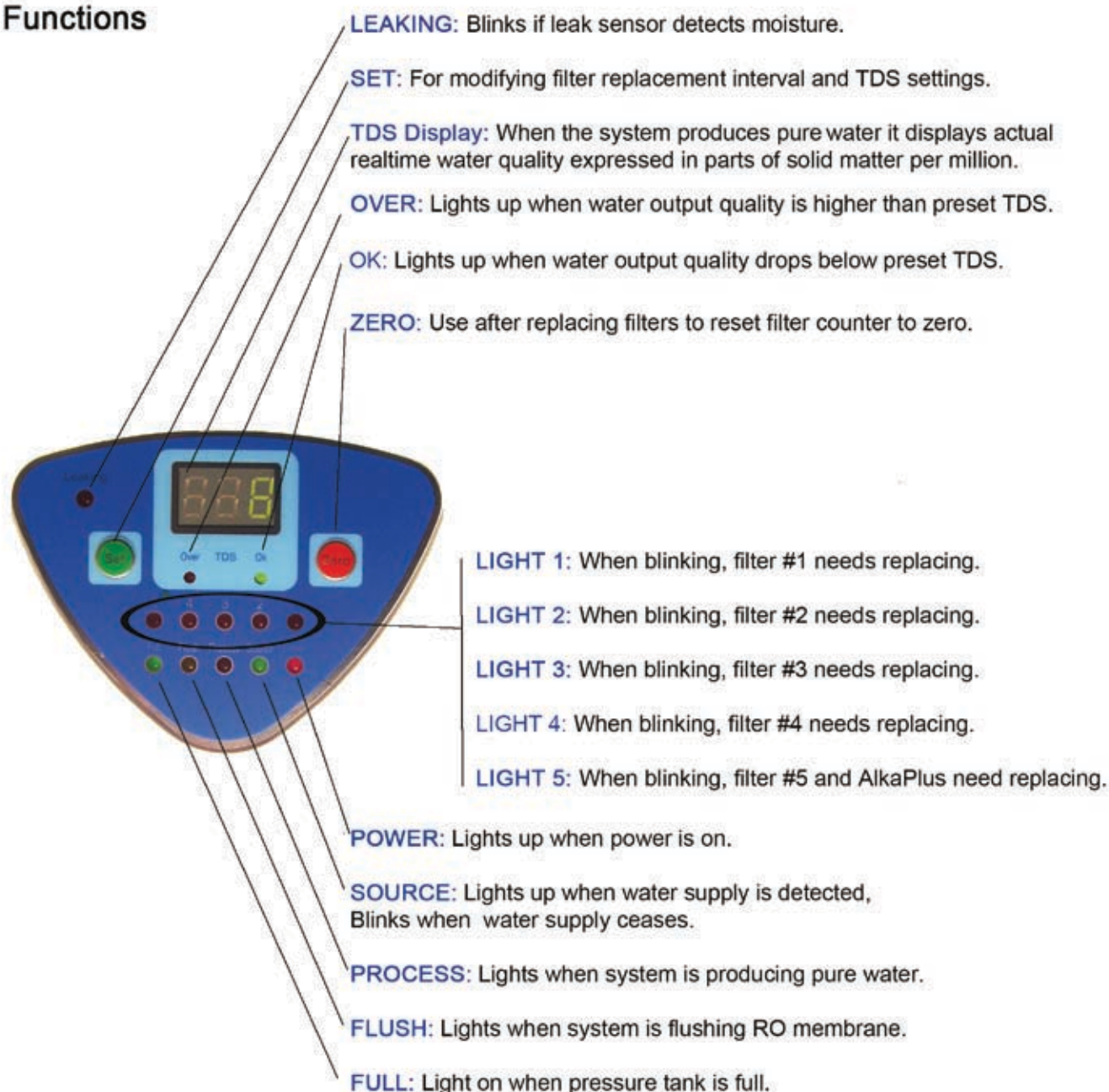
After you turn off the faucet and the tank fills, the green 'FULL' light will show.

The 'FLUSH' light will also flash for 30 seconds as the unit automatically flushes the membrane.

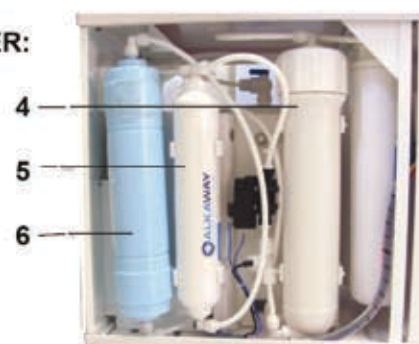


AlkaPure MicroComputer Reference

1. Functions









FILTER:



FILTER:



2. Reviewing Default settings

- First press and hold down the  key and wait two seconds, to enter the first setting mode. The LED will show **106** and the light **1** will start to blink. When released from the factory, the **106** setting indicates that the first filter's replacement reminder is set to automatically alarm every six months.
- Press the  key again, and then proceed to the second setting mode. The LED will show **206** and the light **2** will start to blink. When released from the factory, the **206** setting indicates that the second filter's replacement reminder is set to automatically alarm every six months.
- Press the  key again, and then proceed by entering the third setting mode. The LED will show **306** and the light **3** will start to blink. When released from the factory, the **306** setting indicates the third filter's replacement reminder is set to automatically alarm every six months.
- Press the  key again, and then proceed by entering the fourth setting mode. The LED will show **040** and the light **4** will start to blink. When released from the factory, the **040** setting indicates the fourth RO membrane replacement reminder is set to automatically alarm when PPM is over 40.
- Press the  key again, and then proceed by entering the fifth setting mode. The LED will show **512** and the light **5** will start to blink. When released from the factory, the **512** setting indicates that the fifth filter's replacement reminder is set to automatically alarm every twelve months. *Replace filter six (AlkaPure) at the same time as the fifth filter.*
- Press the  key for two seconds and wait for the "beep" two times, and then it will go back to original set value.

3. Altering Default settings

When you reach the relevant setting display for the filter you wish to change replacement interval, press the ZERO button and the interval period will increase.

Press the ZERO button for 2 seconds and the setting will reset to zero.

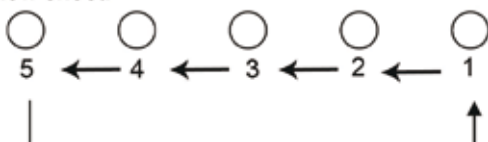
Once at zero interval, increase the replacement interval again by pressing ZERO again.

To confirm a new setting, press  button for 2 seconds.

- If you need to change multiple items, change the usage months for the filters, one at a time, in sequence.

Then press the  key for 2 seconds and wait for the two "beeps" to complete all the settings.

Flow sheet:





AlkaPlus represents a whole new way of alkalising and energising pure water. The patented bio-ceramics in the **AlkaPlus** cartridge performs a similar function to an electronic water ioniser.

Maximum use for best performance is 12 months. Efficiency may be checked at any time using an **AlkaWay** pH Reagent Kit.

Contaminants Removed or Reduced by the AlkaPure System

Aluminium up to 98%	Chloride up to 99%	Silica up to 95%
Ammonium up to 97%	Fluoride up to 98%	Silver up to 95%
Arsenic up to 97%	Iron up to 99%	Sulphate up to 99%
Barium up to 96%	Lead up to 97%	Zinc up to 97%
Bicarbonate up to 99%	Sodium up to 99%	Cryptosporidium
Bromide up to 99%	Magnesium up to 99%	Hydrocarbons
Cadmium up to 98%	Mercury up to 96%	PCB's
Calcium up to 97%	Nickel up to 97%	E-Coli Bacteria
Chromium up to 96%	Nitrate up to 95%	Giardia
Copper up to 97%	Potassium up to 99%	Blastocystus
Cyanide up to 97%	Selenium up to 95%	Hormones

Filter Replacement Sequence

ST 05: First Filter
ST 33: Second Filter
ST CTO: Third Filter
AlkaPure Membrane: RO Membrane
TOR: Fifth Filter
AlkaPlus: Alkalising Cartridge



1. Turn off water supply and power, run faucet until it stops.
2. Pull filter cartridges out of retaining brackets.
3. Using special **QuickFit** tool, remove old filters and replace with new ones.

Removal of Reverse Osmosis Membrane



Before removing RO membrane, turn off water supply at mains, turn off power, and allow pressure to normalise by running faucet until it stops.

Remove the top inlet hose using the technique described in the John Guest QuickFit section. You have a special small spanner-like tool to assist.

Remove the RO Cartridge from the retaining clips.

Holding the base firmly, use the supplied tool to remove the cap.



Using multi-grips or pliers, grasp the neck of the RO Membrane and wiggle it loose.



Remove the new membrane from its protective bag, and put it straight into the cartridge.

Note: if you are concerned with the sterility of the cartridge we can supply sterilising agent.

Close the cartridge. Attach the top hose. Replace the cartridge in the retaining brackets.



Trouble Shooting



Symptoms	Possible Cause	Solutions
AlkaPure does not operate	Mains water supply is off	Turn off Ball Valve, investigate supply problem. When supply is restored, turn on Ball Valve.
	Mains power supply is off	Turn off power to AlkaPure and investigate supply problem.
	Other unidentifiable reason.	Turn off water supply and power supply, call plumber or AlkaWay .
Water is leaking from system	QuickFit connectors not properly installed	Turn off water at Ball Valve, turn off power, locate leak and re-attach QuickFit connector.
Water flow is too slow	Filters are clogged with dirt	Turn off water supply and power supply, replace filters 1, 2, 3.
Drain water runs without stopping	High pressure switch is damaged	Turn off water supply and power supply, call AlkaWay .
Leaking light flashing and beeping	Filter/Tubes/Connector leaking	Turn off power supply. Fix the leak problem. Dry up the inside system. Dry out the leak detector. Turn on the power.
Taste or Odour	No. 5 filter is depleted.	Drain storage tank and replace filter No. 5.
	Nos. 1, 2, 3 pre-filters are depleted	Replace filters.
Offensive taste or odour	Membrane is depleted or fouled	Drain storage tank, replace membrane and filter No. 5 (close inlet valve, run water from faucet until it stops).
Not enough water output	Low pressure from water supply	If unable to remedy, add booster pump
	Clogged sediment cartridge	Replace sediment cartridge No. 1 and drain tank.
TDS Display Number increasing	The RO Membrane is slowly getting less efficient. The number = parts of matter that get through the system. 20 = 20 parts of matter per million. When the number gets to 60, it is time to change the membrane (even though it is still giving good filtration).	

Contact Details

AlkaWay Headquarters: 1/24 Brigantine Street, Byron Bay NSW 2481

Website: www.alkaway.com.au
www.reverse-osmosis.net.au

Email: support@alkaway.com.au

Service Telephone: 02 6685 6471



Warranty for the AlkaPure System

AlkaWay warrants each new AlkaPure to be free from defects in material and workmanship for a period of 5 years from the date of retail sale established by the date of the original invoice issued by the retailer.

AlkaWay's obligations under this Warranty is limited to AlkaWay's own option, to either repair or replace the AlkaPure once AlkaWay has deemed that the AlkaPure is defective, or AlkaWay may, at its own discretion, refund to the Buyer the purchase paid for the defective goods.

AlkaWay reserves the right in instalment sales to grant credit for the value of any AlkaPure found to be defective under this warranty.

AlkaWay will not cover any labour charge incurred by the buyer for the replacement or repair of any AlkaPure.

The buyer is responsible for freight and local labour charges for any AlkaPure as the subject of this warranty.

This Warranty applies only to the original retail purchaser of the AlkaPure.

This Warranty does not cover any AlkaPure that is relocated from the site of its original installation.

This Warranty is subject to the AlkaPure being properly installed, maintained, being used for its intended purpose and operated strictly in accordance with AlkaWay's recommendations.

The Warranty will be void if the AlkaPure has been found to be tampered with or if the goods have not been operated or maintained strictly in accordance with AlkaWay's recommendations.

This Warranty does not cover the normal wear and tear of the AlkaPure, or damage caused by misuse, abuse or vandalism.

This Warranty does not extend to a AlkaPure that has been modified in any way unless with AlkaWay's express consent.

This Warranty does not cover any malfunction or failure resulting from neglect, use of unauthorised parts and accessories or use with higher water pressure than indicated in the AlkaPure Manual, or without installation of the recommended Pressure limiting Valve.

This Warranty does not extend to damage caused by rain, fire, earthquake or lightning strike, storm or other natural causes or acts of nature, or to any damage caused by unqualified installation.

It is expressly agreed that this shall be the sole and exclusive remedy of the Buyer stated herein, and under no circumstances shall AlkaWay be Liable for any cost, loss, expense, damages, special damages, incidental damages or consequential damages arising directly or indirectly from the design, manufacture, sale, or use or repair of the AlkaPure whether based upon warranty, contract, tort or strict liability

Acceptance and Claims

Acceptance of the AlkaPure shall be deemed for all purposes to have taken place at the expiration of seven (7) days from the date of each delivery.

Any faulty systems must be returned with the Pressure Limiting Valve.

In the event of a Warranty claim, the AlkaPure must be forwarded at the Buyer's own risk and expense to AlkaWay, together with proof of purchase, on receipt of a Return Authorisation from AlkaWay. Any damage caused during or as a result of transit will not be the responsibility of AlkaWay. This limited Warranty is void if the AlkaPure under Warranty is presented without the said original invoice.

AlkaWay may request that a Statement accompany the original invoices, signed by the Buyer, setting out the following terms:

1. The name and Address of the Buyer.
2. The date and by whom the AlkaPure was purchased.
3. The date and by whom the AlkaPure was installed.
4. The date and time the AlkaPure first appeared to malfunction.
5. The nature of the problem with the AlkaPure.
6. The date and time of any and all loss event/s.
7. The date and time AlkaWay was first notified of the AlkaPure malfunction.

A failure by the Buyer to submit the said Statement within 28 days, after such request is made by AlkaWay, will automatically void the Warranty.

A failure to answer truthfully or to answer in a way that is misleading, entitles AlkaWay to void the Warranty and to notify the police in the even of suspected fraudulent conduct.

Risk

The risk in the AlkaPure will pass to the Buyer immediately upon the AlkaPure leaving AlkaWay's premises for delivery to the place designated by the Buyer.

Rights Forfeited

The Buyer forfeits any right or claim against AlkaWay if:

1. The system is not turned off when the residents are away for over 48 hours.
2. AlkaPure damage results from water hammer, freezing, neglect or because it is not installed in accordance with the installation instructions in the Manual
3. The AlkaPure is operated with a water temperature higher than 40 Degrees Celsius.
4. The AlkaPure is subject to water pressure that exceeds 150psi.
5. The system is not installed with an Australian Standards approved Pressure Limiting Valve.

