

APRO13212 UNDERSINK REVERSE OSMOSIS WATER PURIFICATION SYSTEM Installation and Operating Instructions

IMPORTANT! *This document will need to be retained by the householder for future reference.*

Congratulations on purchasing the Aqua-Pure Undersink Reverse Osmosis Water Purification System!

Aqua-Pure is a market leader in water filtration. In addition to our comprehensive range of Domestic Water Purifiers, we design and manufacture an extensive commercial and industrial range of purification products and systems for the Restaurant and Hospitality industry, Food and Beverage Manufacturers and Bottled Water Processors.

With over 80 years experience in designing and manufacturing purification products and systems for all industries and applications throughout the world, we are confident the APRO13212 will excel in providing the performance and personal satisfaction you are expecting from your Reverse Osmosis Water Purifier.

The APRO13212 has been designed to provide Safe, Sparkling Clean and Fresh Tasting Water by removing/reducing and providing protection from: **Parasitic Cysts - Cryptosporidium and Giardia, Chemicals, Heavy Metals, Dissolved Salts, Offensive Tastes and Odours, Sediment, Dirt, Rust and other particulate contaminants.**

Refer to the performance data sheet for complete contaminant reduction details.

The APRO13212 Reverse Osmosis Water Purification System has been supplied complete with an assortment of plumbing fittings, which should allow for easy installation on standard undersink plumbing configurations. Also included is the Deluxe Long Reach, Lead Free, Chrome Lever Actioned Faucet with variable flow control and lock on position for ease of use, which should be installed in your sink or bench top.

SYSTEM INSTALLATION WARNINGS AND HELPFUL HINTS

For correct operation of this appliance, it is essential to strictly observe these Installation and Operating Instructions.

1. To maintain the ongoing high performance of your Aqua-Pure Reverse Osmosis Water Purifier, regular servicing will be required. Full servicing details are provided in the Maintenance Instructions.
2. Installation must comply with any existing State or Local Plumbing codes. Some Plumbing Codes require installation of this Water Purification System be carried out by a Licensed Plumber.
3. This Reverse Osmosis Water Purifier requires a water supply with a minimum pressure of 413kPa (60psi) to perform satisfactorily and a maximum pressure of 689kPa (100psi). If the water supply pressure drops to around 275kPa (40psi), the purifier will not deliver any purified water. If the water pressure applicable to this installation is below 413kPa (60psi) consult your Aqua-Pure Dealer. *(For more details refer to Section 1 below:- Installation Instructions).*
4. The APRO13212 is only for use on COLD water that is microbiologically safe. This is water that has been adequately chlorinated or disinfected for Bacteria protection, either before or after the Purification System.

To use on microbiologically unsafe water, or water of unknown quality, which has not been treated for bacteria, viruses and other micro-organisms, additional equipment will be required, such as a chlorine injection system or ultra violet steriliser.

Before using any form of water treatment device on microbiologically unsafe water or non-sterilised water, a full laboratory test should be performed.

For further technical information or assistance, contact your nearest Cuno Pacific Pty Ltd or Aqua-Pure sales office. These are listed in the Yellow Page phone books or phone our Aqua-Pure Technical Assistance and Product Support Help Line **1300 367 362**.

5. This system has been supplied with our NEW, revolutionary and versatile Aqua-Pure 98210 Multi Function Control Valve as standard equipment. This valve must be installed as detailed in the Installation

Drawing and Instructions, to provide Dual Check Backflow Prevention, Pressure Limiting and Anti-Hammer Protection to the Purification System and existing installation. This valve is fitted with a Particle Removal Screen on the inlet side of the valve to protect the intricate mechanism from debris that may be in the incoming water supply. This screen must NOT be discarded for any reason and should be replaced if damaged during installation. Failure to comply with this requirement will void Warranty.

6. To maintain the highest levels of purity and water quality, we recommend that the faucet be turned on and the Water Storage Tank be completely emptied at least once each month. The purifier will then require several hours to refill the tank, ready for use.
7. Should the Purification System not be used for two days or more, flush one (1) to two (2) litres of water through the system before consuming the water.
8. To maintain the high level of performance and protection provided by the APRO13212 Reverse Osmosis Water Purification System, **only use Aqua-Pure replacement cartridges, model AP117R and a maximum cartridge life of 6 months.**

✓ **Helpful Hint:** *The life and performance of cartridges may vary, depending on the volume and quality of the incoming water being purified. An indication that your cartridges may need replacing is reduced volume or flow from the purifier faucet, or the return of taste and/or odour to the purified water.*

If reduced volume or flow is the only symptom this may also be caused by the Particle Removal Screen in the Multi Function Control Valve being blocked with debris from the incoming water supply. To check this possibility, remove the Multi Function Control Valve and visually inspect the inlet Particle Screen. If the Particle Screen needs to be cleaned, remove it from the valve body and flush with water. Refer to section 5 above and 2 (d&e) below for more information. Do not damage the screen by poking, scraping or scrubbing. If you cannot clean by flushing with water, replace with a new Aqua-Pure 98226 Particle Removal Screen. These are available from your Aqua-Pure Retailer.

Alternatively, you can also check if the screen is blocked by turning off the water supply at the Purifier Isolation Tap (16) mounted on the end of the Multi Function Control Valve (17). Remove the WHITE tube from the purifier inlet push-in connection [14 (A)] by simply pushing the collet around the tube, where it enters the fitting, back into the fitting and pulling gently on the tubing at the same time. If the tube is long enough hold this end into the sink or a container and then turn the Purifier Isolation Tap (16) to the fully on position and check that there is a good water pressure and flow. If the volume and flow of water from the tubing is suspect, inspect the screen as outlined above.

⚠ **NOTE:** *The above indication of the requirement for cartridge replacement is only applicable to establish an earlier cartridge replacement period than the maximum period of 6 months. Irrespective of the above, your cartridges must be changed regularly on a 6 monthly basis to protect and provide the expected life of the Membrane on your purifier and to remove accumulated contaminants from the system.*

INSTALLATION INSTRUCTIONS

Select a suitable area where you intend mounting the Water Purifier, this would preferably be under a sink, as a water supply connection and a waste or drain connection is required. Consideration also needs to be made for housing the Water Storage Tank. *For more detailed information, refer to Section 5 below - **Mounting The Purification System.***

The Plumbing Installation Kit supplied with the APRO13212 Reverse Osmosis Water Purification System provides an assortment of plumbing fittings, which should allow easy installation on standard configurations of undersink plumbing.

After identifying a suitable location, the next step of the installation procedure is to obtain a water supply for the purification system.

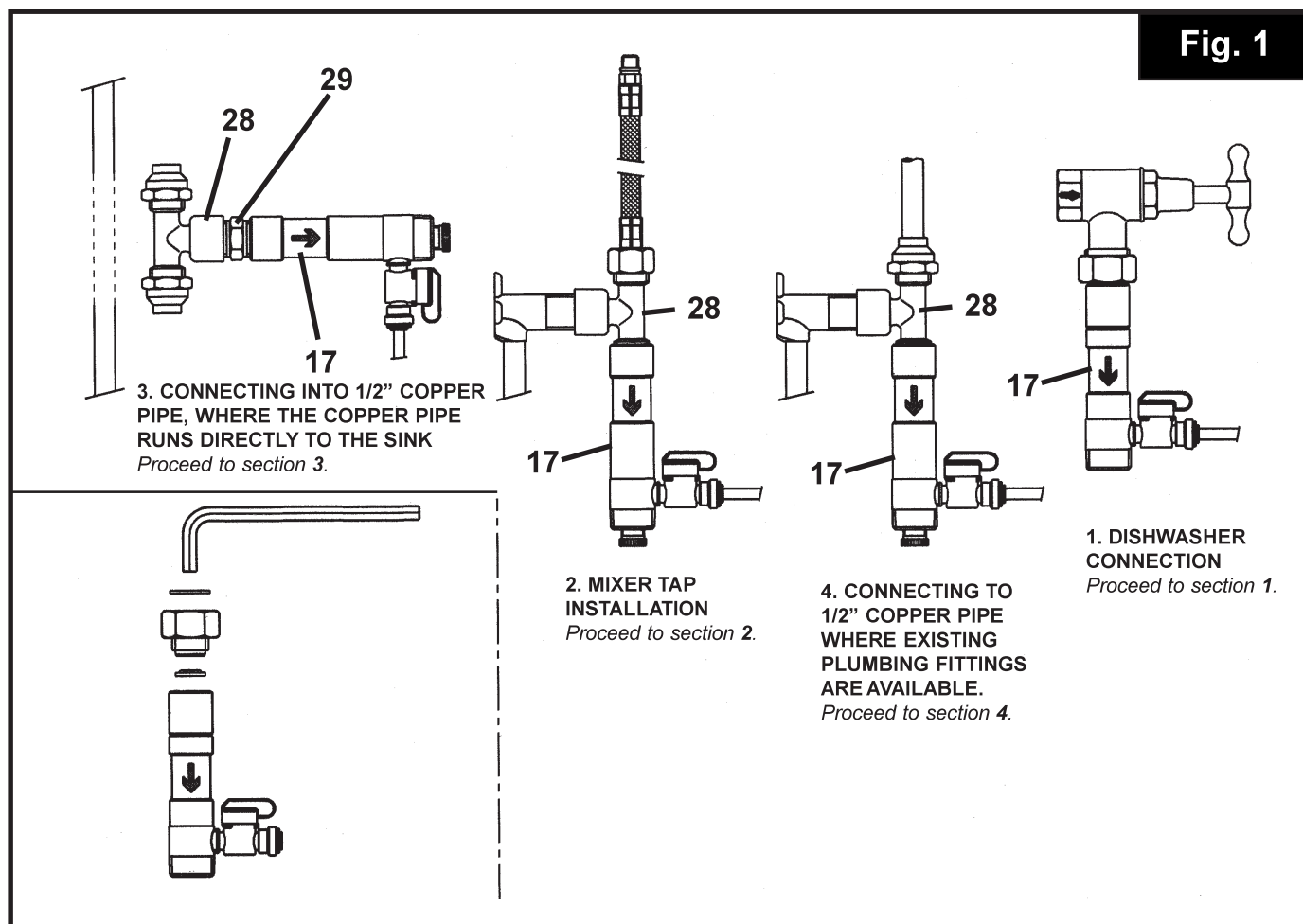
This Reverse Osmosis Water Purifier requires a water supply with a minimum pressure of 60psi (413kPa) to perform satisfactorily. If the water supply pressure drops to around 40psi (275) the purifier will not deliver any purified water. Test the water pressure at the installation site preferably at a time of high local water consumption, prior to proceeding any further with the installation. If you believe the pressure reading obtained at this time, may not be an accurate indication of a higher local demand in peak water usage periods. We recommend that you endeavour to estimate a possible allowance for increased water usage, as the incoming water pressure is crucial for the correct operation and performance of this purifier. We have a Water Pressure Gauge in our range, part number WPG-PT750 to perform this water pressure test, which can be ordered through your AQUA-PURE Dealer.

OBTAINING THE WATER SUPPLY

Check the plumbing configuration under the sink and select which of the following installation methods is best suited for this installation. (*Refer to Fig.1 on the following page.*)

1. **DISHWASHER CONNECTION - Proceed to section 1**
2. **MIXER TAP INSTALLATION - Proceed to section 2**
3. **CONNECTING INTO ½" COPPER PIPE, WHERE THE COPPER PIPE RUNS DIRECTLY TO THE SINK TAP - Proceed to section 3**
4. **CONNECTING TO ½" COPPER PIPE WHERE EXISTING PLUMBING FITTINGS ARE AVAILABLE - Proceed to section 4**

Fig. 1



1. DISHWASHER CONNECTION

Only suitable when the dishwasher is connected to COLD water.

1(a) Establish whether the dishwasher is connected to the cold water supply. This may be achieved by running the dishwasher on a normal washing cycle and after a few minutes touching the dishwasher tap or connecting hose inside the cupboard, if neither feel warm, then the dishwasher is running on cold water.

Alternatively, turn off the dishwasher tap in the cupboard (should be by turning clockwise), unscrew the dishwasher connecting hose from the tap and run water into a container until you establish whether it is a hot or cold water supply.

CAUTION! IF THE DISHWASHER IS CONNECTED TO HOT WATER, YOU CANNOT PROCEED TO CONNECT THE WATER PURIFICATION SYSTEM BY THIS METHOD.

✓ **Helpful Hint:** Check inside the cupboard, for another dishwasher tap connection, some builders provide both HOT and COLD tap connections.

If the dishwasher is connected to COLD water or there is an additional COLD water tap provided, proceed as follows:-

1(b) Remove the dishwasher connecting hose from the tap.

1(c) Screw the Multi Function Control Valve (17) onto the dishwasher tap, ensuring that the Sealing Washer [17(3)] is

fitted into the tap entry nut. Tighten sufficiently to avoid leaking.

1(d) Using thread tape, wrap the thread of the Purifier Isolating Tap (16). Remove the Stopper [17(1)] from the Multi Function Control Valve (17) and screw the Purifier Isolating Tap (16) into the side outlet port of the Multi Function Control Valve (17) until it is tight enough so as not to leak.

1(e) Reconnect the dishwasher connecting hose to the end of the Multi Function Control Valve (17) while holding and supporting the valve with your other hand, to avoid it loosening on the dishwasher tap or being damaged.

Also, ensure that the Purifier Isolating Tap (16) remains in a suitable position for ease of operation.

1(f) If the dishwasher is connected to Hot Water and there is an optional COLD water dishwasher tap provided, follow steps 1(c) and 1(d) above. With this option you need to select which outlet port you want to use for the Water Purifier connection on the Multi Function Control Valve (17). Either the end or the side outlet port can be used and you will need to screw the Stopper [17(1)] into the unused port. This Stopper has a tapered thread and therefore does not require the use of thread tape, however, thread tape can be used if this method is preferred. Tighten both the Isolation Tap (16) and Stopper [17(1)] sufficiently, to avoid leaking.

Upon completing the above steps, proceed to section 5.

2. INSTALLATION WITH MIXER TAP

2 (a) Where a mixer tap is installed, there is often an isolation tap provided where the water supply exits the wall for both the HOT and COLD water supplies. Locate the COLD water tap, which is normally on the right hand side looking into the cupboard. Turn this tap off (normally by turning clockwise). Test that the water is off by turning on the mixer tap and checking for water flow.

2 (b) If the water is off, disconnect the flexible connection pipe from the COLD water isolation tap. This flexible connection pipe supplies water to the mixer tap.

2 (c) Remove the two compression nuts and olives from the Brass Tee (28) provided. Using thread tape, screw the tee to the isolation tap using the centre outlet with the internal thread. Endeavour to have the tee tight and in a suitable direction so that the flexible connection to the mixer tap can be reconnected to one of the two remaining outlets on the tee. Reconnect the flexible connection from the mixer tap to the tee, thread tape is not required. Tighten sufficiently, to avoid leaking.

2 (d) Take the Multi Function Control Valve (17) and with the Hex Key provided, unscrew the inlet nut by holding the Multi Function Control Valve (17) in one hand and placing the Hex Key in the key provision provided in the inlet nut adaptor and unscrew by turning anti-clockwise.

Care must be taken, not to allow the Hex Key to enter the inlet nut adaptor more than is necessary, as there is a Particle Screen housed under this inlet nut adaptor. This important component of the valve will be re-used and must not be damaged in this process.

2(e) Screw the Multi Function Control Valve (17) to the other side of the tee piece. Ensure that the Particle Screen is fitted to the entry point of the Multi Function Control Valve (17). Although thread tape is not required when screwing the Multi Function Control Valve to the tee, as the "O" ring on the Particle Screen will seal this joint, thread tape can be used if this method is preferred.

2(f) Using thread tape, wrap the thread of the Purifier Isolation Tap (16). There are two outlet ports available on the Multi Function Control Valve (17), one in the end opposite the inlet connection and one on the side, select the port you want to use and screw the Purifier Isolation Tap (16) into this port until it is tight. Screw the Stopper [17(1)] provided with the Multi Function Control Valve (17) into the unused port. This Stopper has a tapered thread and therefore does not require the use of thread tape, however, thread tape can be used if this method is preferred. Tighten both the Isolation Tap (16) and Stopper [17(1)] sufficiently, to avoid leaking.

Caution! Screw the Multi Function Control Valve (17) to the tee by hand. DO NOT USE TOOLS, OVERTIGHTENING MAY DAMAGE AND AFFECT THE OPERATION OF THE VALVE.

Upon completing the above steps, proceed to section 5.

3. CONNECTING INTO ½" COPPER PIPE

Some installations have ½" copper pipe exiting the wall and proceeding directly to the COLD water tap on the sink with no plumbing fittings and therefore, do not allow disconnection and the use of existing fittings to provide a water supply for the Water Purification System.

In this situation, it will be necessary to cut the copper pipe and insert the Brass Tee provided.

3(a) Locate the COLD water pipe, which is normally the pipe on the right hand side looking into the cupboard. Turn the water supply off, if there is not an isolation tap handy, turn off at the meter or the point of entry to the building. Turn on the tap at the sink to be sure the water is turned off, before proceeding with the installation.

3(b) Find a suitable, straight section of pipe where the Brass Tee (28) provided can be inserted. Calculate the length of the pipe to be removed, allowing for the length of pipe to be inserted in each side of the tee. Make two cuts using a pipe cutter or a hacksaw and remove a sufficient length of copper pipe to insert the tee. Ensure not to damage the pipe in this area and that there are no rough edges on the two pipe ends where the section has been removed. If necessary use a file or emery paper to dress any damage to the pipe.

3(c) Take the Brass Tee (28) provided and remove the two compression nuts and olives, place a compression nut onto each pipe end and then place an olive on each pipe. Ensuring the olive is the correct way around to seal.

Place the body of the tee piece onto the pipe and slide the olive and nut up to each side of the tee, screw the compression nuts onto the body of the tee piece. Point the tee in the required direction and tighten both compression nuts to prevent leaking.

3(d) Using the ½" Nipple (29) provided, wrap one side of the nipple with thread tape and screw this into the internal threaded outlet of the tee piece.

3(e) Take the Multi Function Control Valve (17) and with the Hex Key provided, unscrew the inlet nut by holding the Multi Function Control Valve (17) in one hand and placing the Hex Key in the key provision provided in the inlet nut adaptor and unscrew by turning anti-clockwise.

Care must be taken, not to allow the Hex Key to enter the inlet nut adaptor more than is necessary, as there is a Particle Screen housed under this inlet nut adaptor. This important component of the valve will be re-used and must not be damaged in this process.

3(f) Screw the Multi Function Control Valve (17) to the Nipple (29) in the tee piece. Ensure that the Particle Screen is fitted to the entry point of the Multi Function Control Valve. Although, thread tape is not required when screwing the Multi Function Control Valve to the nipple, as the nipple will seal onto the "O" ring on the Particle Screen, thread tape can be used if this method is preferred.

3(g) Using thread tape, wrap the thread of the Purifier Isolation Tap (16). There are two outlet ports available on the Multi Function Control Valve (17), one in the end opposite the inlet connection and one on the side, select the port you want to use and screw the Purifier Isolation Tap (16) into the port until it is tight. Screw the Stopper (17(1)) provided with the Multi Function Control Valve (17) into the unused port. This Stopper has a tapered thread and therefore does not require the use of thread tape, however, thread tape can be used if this method is preferred. Tighten both the Isolation Tap (16) and Stopper (17(1)) sufficiently, to avoid leaking.

Caution! Screw the Multi Function Control Valve (17) to the Nipple (29) by hand. DO NOT USE TOOLS, OVERTIGHTENING MAY DAMAGE AND AFFECT THE OPERATION OF THE VALVE.

Upon completing the above steps, proceed to section 5.

4. CONNECTING TO ½” COPPER PIPE WHERE EXISTING PLUMBING FITTINGS ARE AVAILABLE

Some installations have ½” copper pipe connected to a wall connection with a compression fitting and then up to the tap.

4(a) Locate the COLD water pipe, which is normally the pipe on the right hand side looking into the cupboard. Turn the water off, if there is not an isolation tap handy, turn off at the meter or the point of entry to the building. Turn on the tap at the sink to be sure the water is turned off, before proceeding with the installation.

4(b) Disconnect the compression nut where the copper pipe exits the wall in the cupboard and remove the fitting.

4(c) Wrap the thread projecting from the wall with thread tape. Take the Brass Tee (28) provided and remove the two compression nuts and olives. Using the centre internal threaded outlet on the tee, screw the tee to the thread projecting from the wall. Tighten the tee to prevent leaks, but endeavour to have the tee pointing in a suitable direction to reconnect the copper pipe to the sink tap.

NOTE: At this point, you will need to decide on one of the following methods:

Option (1) Whether you have sufficient length on the copper pipe running to the sink tap, so that you may cut off the flared end on this pipe to use the olive and compression nut (supplied with tee) to connect this pipe to the tee.

Option (2) Alternatively, you may need due to circumstances, or prefer to utilise the compression fitting you have removed from the existing plumbing installation, by screwing this fitting to the tee outlet suitable for reconnecting the copper pipe to the sink tap.

Proceed as follows:

Option 1 - Using a pipe cutter or a hacksaw cut off the flared end on the copper pipe to the tap. Ensure that the pipe is not damaged in this area and that there are no rough edges on the end where the flare has been removed. If necessary, use a file or emery paper to repair any damage to the pipe. Place a compression nut and olive on the pipe end, ensuring the olive is the correct way around to seal and insert pipe into the tee. Screw the compression nut onto the body of the tee firmly to prevent leaking.

Option 2 - Screw the compression fitting onto the tee outlet selected, using sufficient thread tape to prevent leaking. Align the copper pipe fitted with the existing compression nut and screw firmly to this fitting to avoid leaking.

4(d) Take the Multi Function Control Valve (17) and with the Hex Key provided, unscrew the inlet nut by holding the Multi Function Control Valve (17) in one hand and placing the Hex Key in the key provision provided in the Inlet Nut Adaptor (17(2)) and unscrew by turning anti-clockwise.

Care must be taken, not to allow the Hex Key to enter the Inlet Nut Adaptor more than is necessary, as there is a Particle Screen housed under this Inlet Nut Adaptor. This important component of the valve will be re-used and must not be damaged in this process.

4(e) Screw the Multi Function Control Valve (17) to the other side of the tee piece. Ensure that the Particle Screen is fitted to the entry point of the Multi Function Control Valve. Although, thread tape is not required when screwing the Multi Function Control Valve to the tee, as the tee will seal onto the “O” ring on the Particle Screen, thread tape can be used if this method is preferred.

4(f) Using thread tape, wrap the thread of the Purifier Isolation Tap (16). There are two outlet ports available on the Multi Function Control Valve (17), one in the end opposite the inlet connection and one on the side, select the port you want to use and screw the Purifier Isolation Tap (16) into the port until it is tight. Screw the Stopper (17(1)) provided with the Multi Function Control Valve (17) into the unused port. This Stopper has a tapered thread and therefore does not require the use of thread tape, however, thread tape can be used if this method is preferred. Tighten both the Isolation Tap (16) and Stopper sufficiently, to avoid leaking.

Upon completing the above steps, proceed to section 5.

5. MOUNTING THE WATER PURIFICATION SYSTEM

Having decided on a suitable mounting area in the cupboard and preferably under a sink, to mount the Water Purification System, the unit will require a space of approximately 140mm deep, 360mm wide and 430mm high to allow for cartridge changes. A space of at least 40mm is required under the system to remove the sumps, this space allowance is included in the 430mm height requirement. A storage space for the

Water Storage Tank (25) and Stand (26) is also required in close proximity to the Water Purification System.

5(a) Mount the Water Purification System by positioning the bracketed unit in the area selected, mark the location of the fixing holes and fix the unit to the cupboard with the mounting screws provided. Remember that approximately 40mm space must be provided below the bottom of the filter housings to allow for the removal of the sumps.

5(b) Locate the dedicated Chrome Faucet (20) provided in the sink or bench top by drilling a 12mm hole in the desired location and so that the faucet can discharge into the sink.

✓ **Helpful Hint:** *Place masking tape over the drill spot to prevent drill movement. Centre punch and then drill 3mm pilot hole, followed by the 12mm hole for the faucet shaft. Use good quality sharp drill bits and coolant is advisable.*

5(c) Mount the faucet in the sink or bench top and assemble as follows:-

1. Place the chrome escutcheon on the brass stem of the faucet, followed by the large rubber washer.

2. Place the faucet stem through the mounting hole, put on the large washer under the sink followed by the metal locking washer and lock nut, tighten nut and ensure the faucet is located in the direction required.

3. Screw the straight tube fitting (19) with internal thread onto the shaft of the faucet. This fitting does not require thread tape and should be tightened so as not to leak.

Locate the two straight tube fittings [14 (1&2)] and wrap the threads with sufficient thread tape to prevent leaking.

Screw one of these tube fittings (14) into each side of the Water Purification System. These ports are marked “IN” [14 (1)] and “OUT” [14 (2)] on the top of the housings. Looking at the front of the purifier, the “IN” port is on the left and the “OUT” is on the right hand side.

Upon completing the above steps, proceed to section 6.

6. PLUMBING THE SYSTEM

All of the fittings provided for the water tubing are “Quick Connect Push In Fittings”, no tools or sealing materials are required. It is important that the tube is cut to length with straight square cuts and when inserted into the Quick Connect Fittings, is pushed in firmly for a length of around 16mm to properly seal.

6(a) Measure a length of the BLUE tubing provided, to run from the bottom fitting (19) on the faucet to the outlet [14(2)] connection on the Water Purification System. This is the connection marked “OUT” on the right hand side of the system when looking from the front. Ensure you measure the length accurately and allowing for the tubing to be run neatly

in the cupboard, as fixing clips are provided. Push the tubing into the faucet fitting and push the other end into the outlet connection on the Purification System. Ensure you push both firmly into the fittings and that they are fully seated.

6(b) Measure a length of WHITE tubing to connect the inlet [14(1)] connection of the Purification System to the Purifier Isolation Tap (16) on the Multi Function Control Valve (17), previously installed on the water supply. The inlet connection is marked “IN” on the left hand side of the system when looking from the front. Again, ensure you push both ends firmly into the fittings and that they are fully seated.

✓ **Helpful Hint:** *To disconnect the tubing, or if a leak occurs at the tubing connections, remove the tubing from the push in connectors by pushing the collet around the tube, where it enters the fitting, back into the fitting and while holding it in this position pulling gently on the tubing at the same time. To re-install tubing - make sure the tubing is cut squarely, wet the end of the tubing with cold water to lubricate prior to pushing back into the fitting. This may assist in sealing any leaks.*

6 (c) Unpack the Water Storage Tank (25) ready for installation. The tank is supplied with a Tank Stand (26) and the tank can be installed in the cupboard, on the stand in an upright or vertical position, space permitting. Alternatively, the tank can be mounted on the stand laying down or in a horizontal position, whichever best suits this installation.

✓ **Helpful Hint:** *If you prefer to mount the Water Storage Tank on the tank stand laying down or in the horizontal position, ensure the tank is centralised on the stand, or it can become out of balance as it fills with water, fall from the stand and cause unnecessary property damage.*

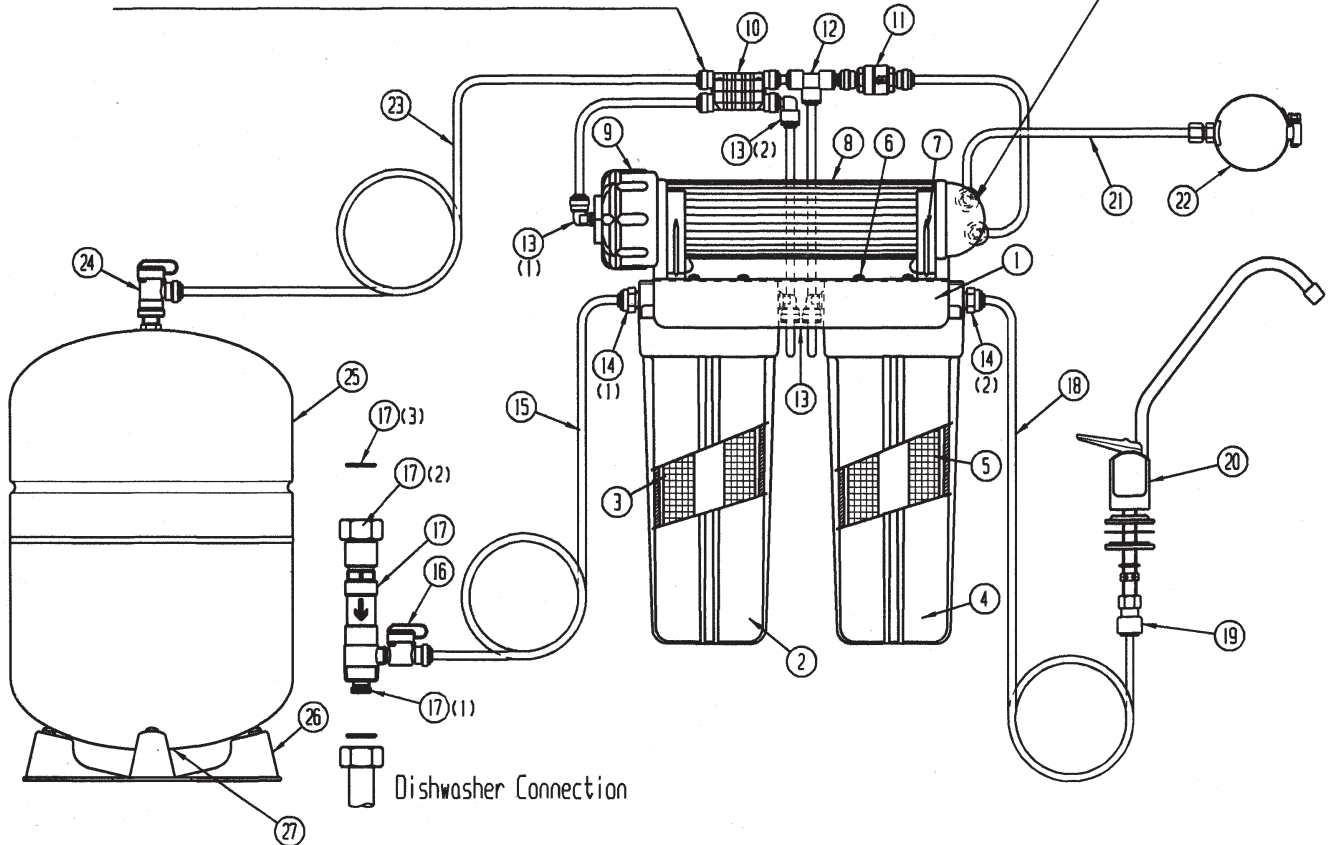
This tank has an in-built air pressure bladder which should be pre-charged at a pressure of 35 kPa (5 psi), this bladder pressure must be correct for the purifier to operate efficiently. Using an accurate air pressure gauge that reads from 0-160 kPa, remove the thread protection cap from the Air Valve (27) on the bottom of the tank and set the air pressure in the tank to 35 kPa, replace thread protection cap when finished. We have an Air Pressure Gauge in our range, part number APG-0160 to perform this air pressure test, which can be ordered through your AQUA-PURE Dealer.

On the top bracket of the purifier behind the Membrane housing there is a rectangular white block, which is the Auto Shut Off Valve (10). There is a short piece of RED tubing in the back connection of this valve, marked “PURIFIED WATER TO TANK”. Remove this piece of tubing and replace it with the RED tubing supplied, one end of which is also marked “PURIFIED WATER TO TANK” and on the other end of this RED tubing there is the Tank Isolation Tap (24). Remove this tap from the tubing using the details provided in the Helpful Hint directly above, using thread tape screw this tap to the connection on the top of the Water Storage Tank (25), do not over tighten. You will have to remove the thread protection cap from the thread. After screwing the tap onto the tank, cut the RED tubing to the correct length and push into the tap connection and ensure the tap is in the off position. Off is when the tap lever is at 90° to the line of the tubing. Also ensure you measure the length

INSTALLATION DRAWING

Connect RED Tubing marked "Purified Water to Tank" in this connection, as detailed in Step 6 (c) of Installation Instructions.

Connect the end of the BLACK Tubing marked "IMPORTANT: THIS END MUST BE CONNECTED TO THE MEMBRANE HOUSING" in this connection, as detailed in Step 6(d) of Installation Instructions.



Part No.	Item No.	Description	Qty.	Part No.	Item No.	Description	Qty.
24-FBM-2	1	Twin Mounting Bracket	1	98213-PP	16	Purifier Isolation Tap	1
AP05-W	2	Pre Filter Cartridge Sump (Housing)	1	98210	17	Multi Function Control Valve	1
AP117R	3	Pre Filter Cartridge AP117R	1	x	17/1	Stopper	1
AP05-W	4	Post Filter Cartridge Sump (Housing)	1	x	17/2	Inlet Nut Adaptor	1
AP117R	5	Post Filter Cartridge AP117R	1	x	17/3	Sealing Washer	1
98024	6	"PK" Screw Ph.HD. ZP 10G x 3/4"	6	41-10-303-PP	18	Blue Tubing	1
PPC-212W	7	Membrane Housing Mounting Clamps	2	98020-PP	19	QC Straight 1/4" Tube Ftg with Intl THD	1
PPV-111TQ	8	Membrane Housing	1	41-THFDB-PP	20	Deluxe Long Reach Faucet	1
x	9	Membrane Housing End Cap	1	HP-NYL	21	Black Tubing	1
ASOV-SVI4WSF	10	Auto Shut Off Valve	1	FI-19	22	Drain Connection Fitting	1
CV-250-JG	11	Check Valve	1	HPR-IM	23	Red Tubing	1
98168-PP	12	Quick Connect Tee	1	ABV-250	24	Tank Isolation Tap	1
98037W	13	Quick Connect Elbow	2	AM-RO3-S	25	Water Storage Tank	1
CI-480821W	13/1	Quick Connect Elbow	1	x	26	Tank Stand	1
98154	13/2	Quick Connect Elbow	1	x	27	Tank Air Valve	1
98017-PP	14/1	Quick Connect Inlet Connection	1	98014	28	Brass Compression Tee. 1/2" BSP (F) (NS)	1
98017-PP	14/2	Quick Connect Outlet Connection	1	98019	29	Nipple. 1/2" BSP (M) Not shown	1
41-10-303W-PP	15	White Tubing	1	x	30	x	1

accurately and allowing for the tubing to be run neatly in the cupboard, as fixing clips are provided.

6 (d) In the installation kit there is a Drain Connection fitting (22). This fitting is like a 60mm hose clamp with a brass fitting attached. This fitting must be fitted to the sink drain pipe as close to the bottom of the sink or plug fitting as is possible and as far away from the “P” trap as possible. Identify a suitable location on the waste pipe, mark the pipe through the hole of the brass fitting and drill a 4mm hole in the drain pipe. Fit the Drain Connection fitting to the drain pipe and ensure that the hole in the brass fitting is properly aligned with the hole you drilled in the drain pipe. If the contaminant water cannot drain freely, the Membrane will be permanently damaged and any Warranty applicable to the Membrane will be void. Tighten the clamp on the Drain Connection so as to compress the rubber sealing washer to the drain pipe and not leak. On the right hand end looking from the front, of the Membrane Housing (8) there are two tube connections. In the top connection there is a short piece of BLACK tube marked “CONTAMINANT WATER TO DRAIN”. Remove this piece of tubing and replace it with the BLACK tubing supplied, this is also marked “CONTAMINANT WATER TO DRAIN”. One end of this tubing has a label marked “IMPORTANT: THIS END MUST BE CONNECTED TO THE MEMBRANE HOUSING”. This end of the black tubing MUST replace the short piece of BLACK tubing removed from the Membrane Housing. The other end of this tubing connects to the Drain Connection fitting (22) you have just fitted to the drain pipe. Measure the length accurately allowing for the tubing to be run neatly in the cupboard and at the Drain Connection end, allow for a loop in the tubing so as the bend in this loop is above the Drain Connection or the bottom of the sink by 100mm.

Fixing clips are provided. Remove the brass nut from the Drain Connection fitting, being careful not to lose the brass olive. Thread the nut and olive onto this end of the BLACK tubing, push the tubing into the brass fitting, slide the olive and locknut down, then tighten the locknut onto the brass fitting on the Drain Connector.

6(e) Turn the water supply on slowly, while holding or locking the lever of the dedicated faucet (20) in the on position (lift lever upward to lock on position) to release any air trapped in the system. Check there are no leaks. Leave like this until you have water trickling from the faucet, this may take some time, possibly 20 minutes or more. Turn the faucet off and turn the Water Storage Tank tap (24) on. The purifier will now begin producing water into the Water Storage Tank. Leave the purifier producing water into the Storage Tank for as long as possible or for at least 3 hours. Turn the water off using the Purifier Isolation Tap (16) on the Multi Function Control Valve (17) and lock the lever on the dedicated faucet in the on position to drain the Water Storage Tank. When water ceases to flow from the dedicated faucet, turn the Purifier Isolation Tap (16) on the Multi Function Control Valve (17) to the on position, after a couple of minutes, return the dedicated faucet lever to the off position. The purifier is now producing water into the Water Storage Tank. Leave the purifier producing water into the Water Storage Tank for several hours, do not operate or draw water from the faucet. After several hours the Water Storage Tank will be full and the purified water will be ready for use.

6(f) Check there are no leaks.

✓ **Helpful Hint:** *We recommend that you continue to check for leaks for a day or so after installation.*



WARRANTY CONDITIONS

The Aqua-Pure APRO13212 Reverse Osmosis Undersink Water Purification System is designed to operate at a maximum pressure of 900kPa (130psi) and at a maximum temperature of 40°C. Cuno Pacific Pty Ltd warrants this Purifier to be free from defects in material and workmanship for a period of *three years from the date of purchase (*Warranty period does not apply to components, cartridges or membrane which are consumable). This warranty is expressly limited to the repair or replacement at our premises of any part or parts proving defective providing the purifier has been installed in accordance with our Installation Instructions, all relevant Plumbing Codes, the installation of an approved Pressure Limiting Device preceding the purifier, and the pressure and temperature do not exceed the limits stated herein. This Warranty does not extend to mechanical damage caused during installation or use. Save insofar as they may be excluded by law, this warranty is given in lieu of all other expressed or implied warranties or conditions and Cuno Pacific Pty Ltd shall in no event be held liable for damages or delays caused by defects and assumes no responsibility for unauthorised repairs.

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3 4 5 8 3 7



cunoau@mmm.com

www.cuno.com.au

 **1800 671 599**