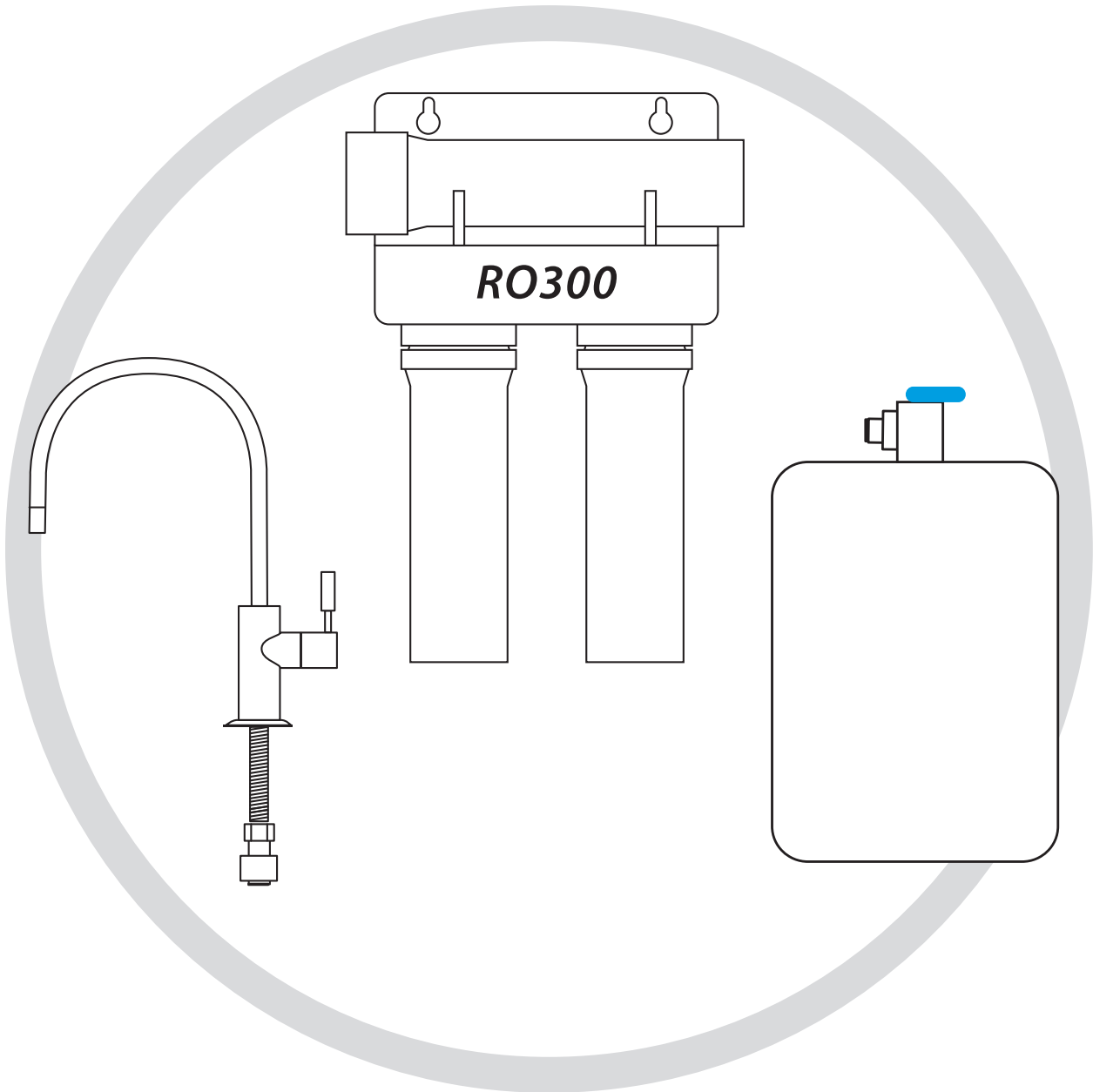


Installation and Service Guide

Domestic R.O. System | RO300



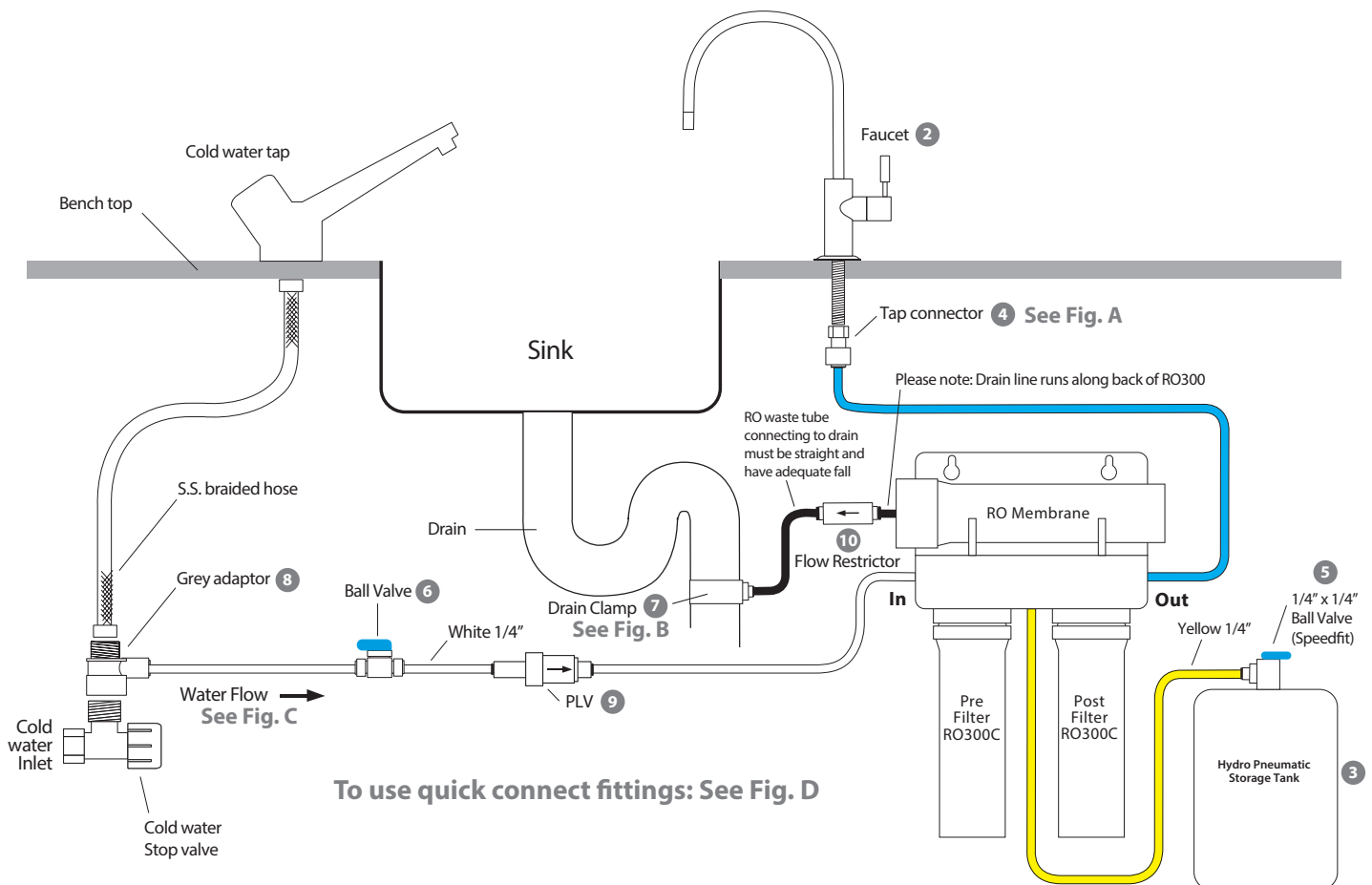
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Please read this manual carefully before attempting installation.

Congratulations on purchasing the RO300 Reverse Osmosis system, which delivers superb quality drinking water.

CHECKLIST

1	RO300	R.O. System
2	FCT-4	Faucet
3	PA-E-132	Tank - 14 Litre
4	CI3212U7S	Fitting for faucet connection
5	PPSV500822W	Ball Valve - 1/4" x 1/4" Speedfit (For Tank connection)
6	PPSV040808W	Ball Valve - 1/4" x 1/4" Tube
7	RODC2.5	Drain Clamp
8	H0830425	Grey adaptor
9	VAZ550	PLV (550kPa)
10	FRCT-800	Flow Restrictor
Qty 1		Teflon Tape
Qty 1		Locking Clip 1/4"
Qty 1		Locking Clip 3/8"
Qty 1		Tube Cutter



Correctly maintained, the RO300 will provide many years of reliable service.

Before you start installation:

1. Water pressure at the installation point should be minimum 350kPa or the RO performance is compromised. Speak with WFS if mains water pressure is less than 350kPa.
2. Space required; The R.O. assembly requires 500mm high (allowing for cartridge change out) 330mm wide and 140mm deep. The space required often requires any existing shelf to be modified or removed.
3. The storage tank used with the RO300 measures 350mm high and 280mm in diameter and should be located near or within 2 meters from the RO300.
4. Tools required;

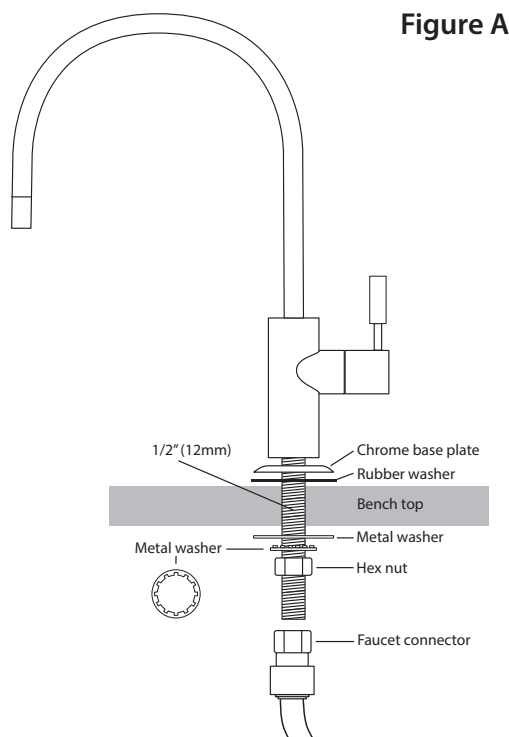
For stone benchtops: we recommend contacting a benchtop company or suitably qualified tradesperson to drill the stone benchtop.

For stainless steel sinks/laminate benchtops, you will require:

1. Power drill and drill bits
2. Phillips head screwdriver
3. Adjustable wrench
4. Hammer and center punch

1 Installing the Faucet

1. Ensure the faucet location is suitable for your kitchen. A 2" diameter foot print is required
2. Mark the centre with centre punch for the 1/4" pilot hole.
3. Drill the pilot hole.
4. Continue to enlarge hole with larger size drill bit until it is 1/2" (12mm).
5. Clean up any sharp edges.



Mounting the Faucet: FIGURE A

1. Chrome base plates and the rubber washer slide up the shank to the faucet body.
2. Feed threaded shank through the sink/ benchtop hole and orient the faucet. From below sink, slide lock washer and hex nut over threaded shank and tighten with a wrench.

Note: It is best to have someone hold the faucet from above the sink to keep it from moving out of place when tightening the nut.

3. Fit the faucet connector to the base of the shank

2 R.O. Unit and Tank Installation

The R.O. unit is normally mounted to the right or left sink cabinet sidewall, depending on where supply tank is to be located. Generally the unit is installed at the front of the cabinet and the tank at the rear.

To mount the unit, elevate it at least 75mm off the floor, level it and mark the location of mounting holes needed. Drill hole for mounting screws and install screws allowing the mounting bracket slots to slip over them.

Locate the tank in a suitable location under the sink.

Note: *If the cabinet sidewalls are not solid, unit may sit on the floor with screws used just to keep it against the cabinet in a vertical position*

Fit the 1/4" ball valve (speedfit) to the top of the tank (use Teflon tape). Do not overtighten.

Upon installation of the RO300, it will take up to one hour for the tank to fill and the RO300 drain system to shut off (drain flow to stop)

We recommend draining the first full tank of R.O. water to flush the tank and tubing. After this the water will be ready for use.

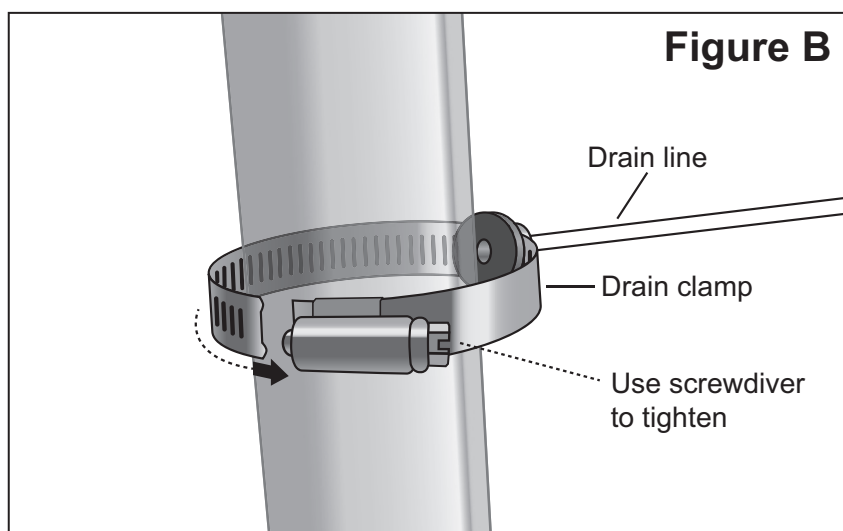
RO300 Tubing

BLUE 3/8"	From - Product water from R.O. tank	To - Faucet or point of use
WHITE 1/4"	From - Cold water supply	To - Inlet LHS of pre filter to R.O.
YELLOW 1/4"	Supplied water to and from tank.	
BLACK 1/4"	From - Waste outlet of R.O. membrane	To - Drain Connection.

3 Drain Clamp Installation: FIGURE B

A Drain Clamp is used to make a wastewater connection with the drain under the sink, which is designed to fit around a standard 1-1/2" OD drainpipe. The drain clamp should always be installed before (above) the p-trap and on a vertical or horizontal drain. Do not install the drain clamp near a garbage disposal to avoid clogging the drain line with debris.

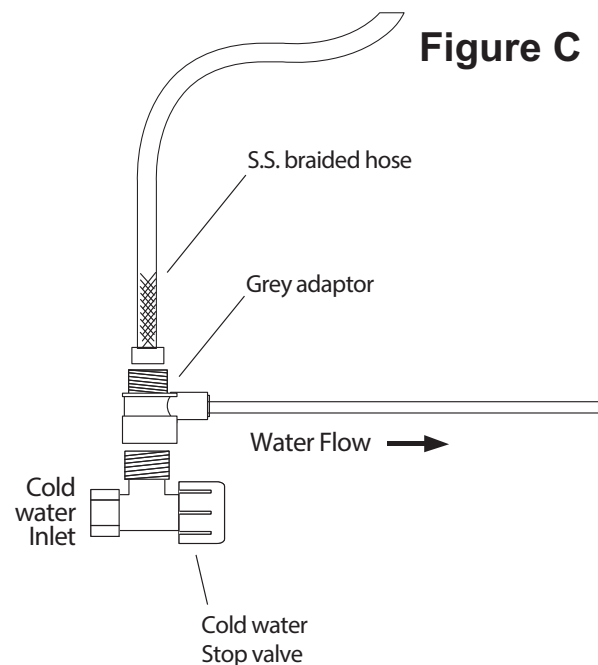
1. Position the drain clamp at selected location and mark for the opening.
2. Drill 1/4" hole at mark through one side of pipe.
3. Position the drain clamp on the drain pipe so the opening aligns with drilled hole. Use a small drill bit to verify that drain clamp is properly aligned.
4. Secure drain clamp firmly onto the drain pipe.
5. Connect the black drain line of the R.O. into the attached drain clamp assembly.



4 Ball Valve and Tubing Installation: FIGURE C

The grey inlet adaptor provides a simple, easy connection between the cold water shut-off and the cold water line.

1. Shut-off the cold water supply by using the existing shut-off valve or stop cock, located under your sink. Leave the water supply off until installation is complete.
2. After shutting off the valve, turn on kitchen tap on the cold water side, this will relieve any excess water and ensure water is off.
3. Using an adjustable wrench, disconnect the 1/2" braided SS hose line from the cold water shut-off valve.
4. Connect the grey inlet adaptor to the male thread on the cold water shut-off valve. Do not overtighten
5. Reconnect the braided SS braided hose to male thread of the grey adaptor.
6. Connect a length of the 1/4" white tubing between the grey adaptor and the inlet of the R.O. unit.
7. Cut into this line the small quick connect ball valve (turned off) and the pressure limiting valve (PLV).



5 Final tubing connections and start up:

1. Tubing should follow contour of the cabinets.
2. Cut tubing to correct length using tube cutter provided.
3. Make sure there are no crimps in the tubing.
4. Keep tubing from the R.O. unit to the tank and faucet as short as possible for good flow.
5. Connect blue tube from R.O. to tap connector (or point of use)
6. Leave the yellow tube to flow to atmosphere into a small bucket - so all air is purged through the system.

The isolating valve or stop cock of the mains cold water line can be turned slowly on. The main faucet on the sink will flow and can now be turned off. The ball valve in the white plastic 1/4" tube should be turned on (tap to run in line with tube, this is the ON position). Check for leaks. Water will now fill the RO300 and eventually water will slowly discharge from the yellow tube. When water appears from the yellow tube, fit the yellow tube into the ball valve connected to the top of the pressure tank. The tank will take some time to fill. When the tank is full, water will stop discharging to the drain. When the faucet is open - or point of use dispenser is used, the RO water will flow from the tank under pressure.

Membrane

The RO300 is fitted with a 75US GPD membrane (280 litres per day). Depending on your water pressure and temperature the production will be 9-12 litres per hour.

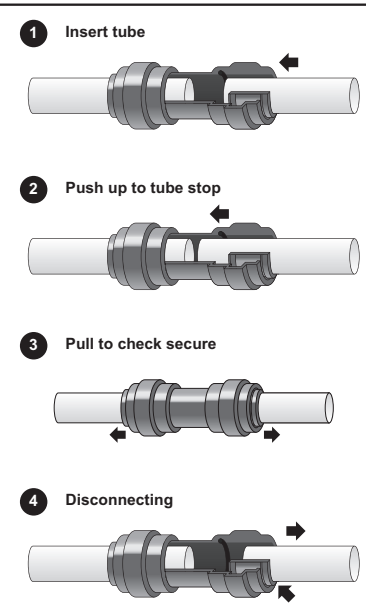
Troubleshooting

R.O. Systems are highly sensitive to pressure and temperature. The majority of problems with R.O. Systems are a result of low pressure. The effects of low pressure include water constantly running to the drain, slow water production and low water volume available in storage tank. In these cases where low pressure exists, a booster pump will be required.

To troubleshoot a poor performing R.O. System, an accurate measure of the pressure and temperature of water will be required. This will require a pressure gauge to determine exactly what the water pressure is that is feeding the membrane.

Spare Parts

FCT-4	Faucet
PA-E-132	Tank - 14 Litre (without valve)
RO300C	Pre & Post Filters
ROM75/300TFC	Membrane - Only
ROMM300	Membrane - Complete Module



How to make a Quick-Connect Connection

1. Fitting grips before it seals. Ensure tube is pushed into the tube stop.
2. Push the tube into the fitting, to the tube stop. The collet (gripper) has stainless steel teeth which hold the tube firmly in position while the O-ring provides a permanent leak-proof seal.
3. Pull on the tube to check that it is secure. It is a good practice to test the system prior to leaving site and/or before use.
4. To disconnect, ensure the system is depressurized before removing the tube. Push in collet squarely against face of fitting. With the collet held in this position, the tube can be removed. The fitting can then be re-used.

Note: When removing tube, first remove collet.

