



INXPIRE 8000 REVERSE OSMOSIS SYSTEM INSTALLATION AND MAINTENANCE MANUAL



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1.0 SCOPE AND GENERAL

The condition of water in each geographical location and water requirements of any feed water appliance are different, hence attention is required before setting up an InXpire 8000 system. All RO systems should be installed by a qualified technician. It is important that all installers read this manual and the appliance manual carefully before commencing installation of an InXpire 8000 system. Any incorrect installation and set up may result in serious damage to the appliance. Xsential will not be held responsible for the incorrect installation and set up of the system.

1.1 Disclaimer

Xsential's reverse osmosis systems will reject up to 96% of salt. Specification of the requirements by individual appliances may vary. It has been demonstrated that all Xsential's reverse osmosis systems contribute to the prevention of scale build up. However, it is up to the individual to check for compatibility of Xsential's reverse osmosis system for the intended application. Xsential will not be responsible for any incorrect installation or water configuration.

2.0 INXPIRE 8000 REVERSE OSMOSIS (R.O.) SYSTEM

Read through the following instructions carefully before proceeding with the installation. Be sure to follow any special plumbing codes in your area. Contact your local dealer if you are having problems installing it. Diagram 1 illustrates the plumbing connections that are needed to install the system.

CAUTION: DO NOT USE WITH WATER THAT IS MICROBIOLOGICALLY UNSAFE OR WITH WATER OF UNKNOWN QUALITY WITHOUT ADEQUATE DISINFECTION BEFORE OR AFTER THE SYSTEM.

3.0 SYSTEM COMPONENTS

The InXpire 8000 R.O. system comes with the following components:

1. InXpire 8000 system
2. A RO tank
3. A dual check
4. 1pcs x 3/8" OD ball valve
5. 2pcs x STP34
6. 2pcs x XP06
7. 3pcs x 3/8" OD x 3/8" stem elbow connector
8. 1pcs x 1/4" OD x 1/4" stem elbow connector
9. 6m x 3/8" JG tube

Teflon tape is required for the installation.

4.0 PREPARATION FOR INSTALLATION

Make sure there is a 20mm water supply with isolation valve, a 10amp power plug and waste water drain where the InXpire RO system is going to be installed.

InXpire Reverse Osmosis Installation Diagram

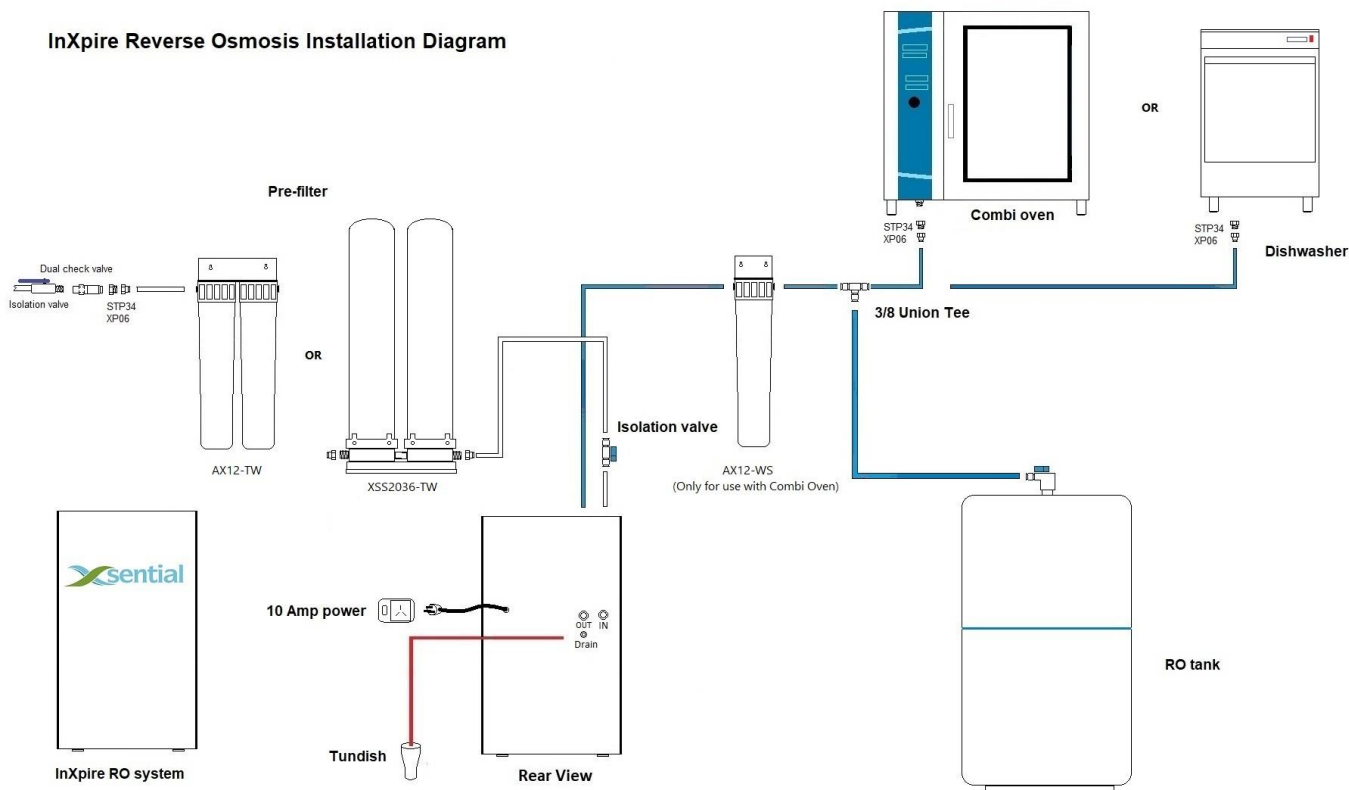


Diagram 1

5.0 INSTALLATION INSTRUCTIONS FOR QUICK CONNECTOR

Remove all dust plugs from the quick connectors. To connect the poly tubing;

1. Cut the tubing end squarely (with tube cutter)
2. Insert the tubing through the back of the connector all the way through the assembly until the tube stops in the fitting body (see diagram 2).



Diagram 2

CAUTION: To ensure proper assembly, tubing **MUST** be fully inserted into the fitting body until the tube stops.

6.0 INSTALLATION OF COLD WATER SUPPLY CONNECTOR

Place the InXpire underneath a shelf. The water supply connector that comes with the unit is made up of two parts; a 20mm dual check pressure valve, a STP34 and XP06 connector. Connect up the dual check valve STP34 and XP06 as shown in diagram 1.

WARNING: INADVERTENTLY CONNECTING THE UNIT TO HOT WATER WILL DESTROY THE MODULE AND VOID THE WARRANTY. THE FEEDING WATER TEMPERATURE CANNOT EXCEED 30° C.

7.0 INSTALLATION OF WASTE WATER DRAIN CONNECTION.

Measure and cut the ¼" tube to the length that is required to connect drain connector to the tundish. Insert stem elbow connector into the drain of the InXpire (See diagram 1) and secure the tube to the tundish. Use the ¼" stem elbow connector if you need to bend the tube to prevent stress on the tube.

8.0 PRE-FILTER INSTALLATION

Connect the water supply (XP06) to the pre-filter system. Please insert the tube into the inlet of the pre-filter (sediment) and connect outlet of the pre-filter to the InXpire 8000 RO system as shown in diagram 1.

9.0 CONNECTING UP THE INXPIRE AND AN APPLIANCE

With the appliance next to the RO system, one may use a 3/8" OD x 3/8" stem elbow connector to assist with reducing tube stress if needed. .

9.0.1 For combi oven (with AX12-WS water stabilizer)

1. Cut a 3/8" tubing with the length measured to connect the InXpire and the AX12-WS filter (if supplied).
2. Insert one end of the tube to the InXpire water inlet marked "OUT" as shown in diagram 1.
3. Insert the other end of the tube to the inlet of the AX12-WS filter
4. Cut about a 20cm length of 3/8" tubing and insert one end into the outlet of the AX12-WS filter and the other end into a 3/8" OD union tee connector (as per Diagram 1).
5. Connect one outlet of the 3/8" OD union tee connector to the external tank (as per Diagram 1)
6. Connect the other outlet of the 3/8" OD union tee connector to XP06 connector (as per Diagram 1)
7. DO NOT connect to the oven INLET at this stage
8. Connect the STP34 connector to the oven.

9.0.2 For Glasswasher

1. Cut a 3/8" piece of tubing which has been measured to connect the InXpire and the RO tank.
2. Insert one end of the tube to the InXpire water inlet marked "OUT" as shown in diagram 1.
3. Insert the other end of the tube to a 3/8" OD union tee connector (as per Diagram 1).
4. Connect one outlet of the 3/8" OD union tee connector to the external tank (as per Diagram 1)
5. Connect the other outlet of the 3/8" OD union tee connector to the XP06 connector (as per Diagram 1)
6. DO NOT connect to the glasswasher INLET at this stage
7. Connect the STP34 connector to the glasswasher.

10.0 START UP PROCEDURE

1. Double check the connection of installation. Make sure the ball valve is in the OFF position, that is 90 degrees to the tube.
2. Turn on water supply slowly.
3. Plug in the cord from the rear of the InXpire unit into a power socket on the wall and turn ON the power supply. It will then start to produce RO water.
4. Check for leaks. (If anything is leaking shut off water, repair, then start with step 1 again.
5. Let the water run for 10 minutes. This flushes out any preservatives in the membrane.
6. Turn OFF the water supply and the system will stop.
7. Insert the appliance tube and connect it to the inlet of the appliance.
8. Turn the water supply back ON
9. The installation is done.

11.0 TOTAL DISSOLVED SOLID (TDS) CHECK

Reverse osmosis system is designed to remove total dissolved solids (TDS). Use the TDS tester to check the TDS of the RO water. Depending on the incoming water, the RO system should remove up to 96% of the impurities of the water.

12.0 SYSTEM MAINTENANCE AND FILTER CHANGE PROCEDURE

CAUTION FOR YOUR SAFETY: Change the sediment and carbon filters regularly every 3-4 months and have the R.O. membrane checked 6 monthly.

1. Turn the water supply OFF
2. Replace the pre-filters)
3. All cartridges are labelled with a number on the top right hand corner. Use the correct numbered cartridge for the replacement.
4. Once all cartridges have been replaced, turn ON the water supply.

13.0 RO MEMBRANE REPLACEMENT

1. Turn OFF the water supply
2. Turn OFF the power and unplug the plug
3. Turn OFF the storage tank ball valve
4. Disconnect the system and put it on a bench
5. Open up the left hand side front cover. The membrane is inside the system.
6. Take note of the connection of the membrane housing (all inlet and outlets). The membrane housing is marked with ROM-8000
7. Unscrew the top and bottom 4 screws
8. Remove the inlet water, drain, outlet water connections and unplug the IEC power plug from the inside of the system.
9. Slide the main component out of the system
10. Remove the membrane housing inside the system by pushing the 3/8" OD collet in evenly and pull out the tube
11. Use a membrane housing wrench to unscrew the top membrane cap
12. Pull the membrane out from the housing using a set of pliers and insert the new one
13. Screw back the membrane housing cap and tighten the cap
14. Put the membrane housing back into the clips and insert the tubes back into the connectors according to the way they were pulled out. Make sure the tubes are fully inserted.
15. Slide the main component back into the system
16. Insert the water inlet, outlet and drain tubes. Put back the top and bottom 4 screws.
17. Connect the system back to the appliance
18. Turn ON the water supply and check for leaks.
19. Plug in the power plug if there is no leaks
20. Turn on the power.
21. The pump should start working. Check for signs of any leaks.
22. Turn off the power and water if there is a leak and fix the leaks.
23. Turn on the tank ball valve if there no leak
24. Screw back the cover

14.0 TROUBLE SHOOTING GUIDE

This trouble-shooting guide will give you a basic idea of the problems that can occur with an R.O. system. If in doubt, contact the local dealer.

Problem	Cause	Solution
Small amount of water in storage tank	1. System just starting up 2. Air pressure in the storage tank is low	1. Normally it takes 1 hour to fill the tank. Low-pressure and/or temperature can reduce production rate. 2. Add pressure in the storage tank. Refer to the storage tank label for pressure details.
Slow production	1. Crimps in tubing 2. Clogged pre-filters 3. Fouled membrane	1. Check tubing is straightened or repair as necessary 2. Replace pre-filters 3. Replace membrane
No drain water	Clogged flow restrictor	Replace flow restrictor
Leaks	1. Fitting not tightened 2. Missing O-ring 3. Misalignment of hole in the drain saddle	1. Tighten fitting as necessary 2. Contact local dealer 3. Realign drain saddle
System is beeping	Low water pressure or block filters	Check the water pressure Replace the filter cartridges
Pressure gauge show high pressure	Filters blocked	Replace the water filter cartridges

15.0 SERVICE GUIDE

It is very important that the filter cartridges are replaced regularly to keep up with the performance of the system. Failure to replace the cartridges regularly will result in no or lack of water production and premature fouling of the membrane.

Change the sediment and carbon filters regularly every 3-4 months and have the R.O. membrane checked 6 monthly. Water usage can also affect the filter change interval. It is very important that the owner checks the water quality regularly to ensure that the reverse osmosis system works properly.

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