SECTION 14

Reverse Osmosis Systems

A Watts Water Technologies Company

WATER QUALITY PRODUCTS

Catalog 10

Version 3.0 1026

Watts® 525 Premium Series RO Systems

Certified by NSF International

Best Selling Product. Try it today!

W-525

Features & Benefits

Watts “525” ROs are our best selling certified model, offering third party documentation and exceptional performance! Features and benefits include:

- Five stage treatment for superior performance.
- 50 GPM membrane (Made in USA).
- Designer chrome faucet with ceramic disc for greater durability.
- Genuine John Guest® fittings throughout for optimum security.
- 3/8” post filter and 3/8” tubing to faucet for greater flow.
- Assembled in USA.
- Certified by NSF International (Std. 58) for third party documentation.
- Certified to NSF / ANSI Std. 58 for Pentavalent Arsenic reduction.
- One year limited warranty from date of purchase.

ASSEMBLED IN THE ★ U.S.A. ★

Specifications

Specification	Data
Membrane	50 GPD
Maximum pressure	100 psi
Minimum pressure	40 psi
Maximum TDS	2,000 PPM
Maximum hardness	15 GPG
Maximum Iron	0.3 PPM
Maximum HS	0.0 PPM
Tubing (tank & faucet)	3/8"
Tubing (other)	1/4"

Replacement Components

Components	Part number
Pre-filter, sediment, 5 micron	IF-SP-1005
Pre-filter, carbon, 5 micron	F109009
Pre-filter, carbon, 5 micron	F109009
Membrane	W-1812-50
Post filter	W560033
Faucet	FU-WDF-905-CP
Tank	FRO-132-WH
Fittings (inlet, outlet)	Quick Connect
Feed water valve	F560070/F560080

Specifications

Part Number	Pump	Stage	Membrane	Faucet	Fittings	Tank	Ship Wt.
W-525	No pump	5	50 GPD	Designer - 905 Chrome	Quick Connect	Metal	27

System tested and certified by NSF International against NSF / ANSI Standard 58 for the reduction of Arsenic, Barium, Cadmium, Copper, Cyst, Fluoride, Hexavalent Chromium, Lead, Radium 226/228, Selenium, TDS, Trivalent Chromium, Turbity. (Model W-525).

Conforms to NSF/ANSI 58 for pentavalent arsenic reduction. See performance data sheet and Arsenic Facts section for an explanation.

Watts® 525P Premium Series RO Systems

W-525P

Booster pump built-in

W-525P RO systems come with Aquatech 6800 booster pumps, the industry leader. 110 and 220 volt systems are available.

Features & Benefits

- Five stage treatment for superior performance.
- Comes with booster pump for proper pressure requirements.
- 50 GPD membrane (Made in USA).
- Designer chrome faucet with ceramic disc for greater durability.
- Genuine John Guest® fittings throughout for optimum security.
- 3/8” post filter and 3/8” tubing to faucet for greater flow.
- Assembled in USA.
- Certified by NSF International (Std. 58) for third party documentation.
- Certified to NSF / ANSI Std. 58 for Pentavalent Arsenic reduction.
- One year limited Warranty from date of purchase.

ASSEMBLED IN THE ★ U.S.A. ★

Specifications

Specification	Data
Membrane	50 GPD
Maximum pressure	100 psi
Minimum pressure	40 psi
Maximum TDS	2,000 PPM
Maximum hardness	15 GPG
Maximum Iron	0.3 PPM
Maximum HS	0.0 PPM
Tubing (tank & faucet)	3/8"
Tubing (other)	1/4"

Replacement Components

Components	Part number
Pre-filter, sediment, 5 micron	IF-SP-1005
Pre-filter, carbon, 5 micron	F109009
Pre-filter, carbon, 5 micron	F109009
Membrane	W-1812-50
Post filter	W560033
Faucet	FU-WDF-905-CP
Tank	FRO-132-WH
Fittings (inlet, outlet)	Quick Connect
Feed water valve	F560070/F560080

Specifications

Part Number	Pump	Volts	Stage	Membrane	Faucet	Fittings	Tank	Ship Wt.
W-525P-110	Aquatec	110	5	50 GPD	Designer - 905 Chrome	Quick Connect	Metal	33
W-525P-220	Aquatec	220	5	50 GPD	Designer - 905 Chrome	Quick Connect	Metal	33
W525PEXP-220	Watts	220	5	50 GPD	Designer - 905 Chrome	Quick Connect	Metal	33

Note: W-525PEXP-220 systems are sold for export sales only.

Watts® Residential RO Systems

Top quality systems –ideal for private label marketing.

FMRO5-MT-USA

Features & Benefits

- Competitive pricing (with special discounts in pallet quantities).
- Top quality components for quality assurance.
- Proven design –our best selling "no label" model.
- Five stage treatment for superior performance.
- 50 GPD membrane (made in USA).
- Quick connect fittings on inlet and outlet.
- Four gallon metal storage tanks.
- Long reach chrome faucet (air gap and non air gap).
- Saddle valves, tubing and instruction instructions included.
- One year limited warranty from date of purchase.

ASSEMBLED IN THE ★U.S.A.★

Specifications

Specification	Data
Membrane	50 GPD
Maximum pressure	100 psi
Minimum pressure	40 psi
Maximum TDS	2,000 PPM
Maximum hardness	15 GPG
Maximum Iron	0.3 PPM
Maximum HS	0.0 PPM
Tubing (tank & faucet)	3/8"
Tubing (other)	1/4"

Components

Components	Part number
Pre-filter, sediment	FPMB5-978
Pre-filter, carbon	WCBCS975
Pre-filter, carbon	WCBCS975
Membrane	W-1812-50
Post filter	AICRO
Faucet	FU-WDF-103NSF
Tank	FRO-132-WH
Fittings (inlet, outlet)	Quick Connect
Feed water valve	F560070

Models

Model Number	Stage	Membrane (GPD)	Tank	Faucet	Fittings (Inlet / Outlet)	Ship Wt.	No. Per Pallet
FMRO5-MT-USA	5	50	Metal	Non air gap	Quick Connect	25	24
FMRO5-MT-USA-AG	5	50	Metal	Air gap	Quick Connect	25	24
GTS550S-NAGF-MT	5	50	Metal	Non air gap	Quick Connect	25	24

Systems are assembled in USA and stocked for immediate shipment.

Watts® Residential RO Systems

Top quality systems –ideal for private label marketing.

FMRO5G-USA

Features & Benefits

- Competitive pricing (with special discounts in pallet quantities).
- Top quality components for quality assurance.
- Proven design using John Guest® fittings.
- Five stage treatment to reduce the widest range of drinking water contaminants.
- 50 GPD membrane (made in USA).
- RO PRO® non-metallic storage tank (only 9” in diameter - takes less space).
- Long reach chrome faucet.
- 3/8" tubing from tank to faucet for higher flow.
- Saddle valves, tubing and instructions included.
- One year limited warranty from date of purchase.

ASSEMBLED IN THE ★U.S.A.★

Specifications

Specification	Data
Membrane	50 GPD
Maximum pressure	100 psi
Minimum pressure	40 psi
Maximum TDS	2,000 PPM
Maximum hardness	15 GPG
Maximum Iron	0.3 PPM
Maximum HS	0.0 PPM
Tubing (tank & faucet)	3/8"
Tubing (other)	1/4"

Components

Components	Part number
Pre-filter, sediment	FPMB5-978
Pre-filter, carbon	WCBCS975
Pre-filter, carbon	WCBCS975
Membrane	W-1812-50
Post filter	AICRO
Faucet	FU-WDF-103NSF
Tank	ROPRO-4W
Fittings (inlet, outlet)	Quick connect
Feed water valve	F560070

Models

Model Number	Stage	Membrane (GPD)	Tank	Faucet	Fittings (Inlet / Outlet)	Ship Wt.	No. Per Pallet
FMRO5G-USA	5	50	RO-PRO	Non air gap	Quick Connect	29	24

Systems are assembled in USA and stocked for immediate shipment.

Watts® Residential RO Systems

Top quality systems –ideal for private label marketing.

ER-1000

Non-electric permeate pump dramatically increases water production by reducing back pressure on the RO membrane.

FMRO4G-ERP-USA

Features & Benefits

- Comes with non-electric permeate pump to dramatically increase water production!
- Permeate pump reduces back pressure on the membrane for improved performance.
- Proven design using John Guest® fittings.
- Four stage treatment to reduce the widest range of drinking water contaminants.
- 50 GPD membrane (made in USA).
- RO PRO® non-metallic storage tank (only 9” in diameter - takes less space).
- Long reach chrome faucet.
- 3/8" tubing from tank to faucet for higher flow.
- Saddle valves, tubing and instructions included.
- One year limited warranty from date of purchase.

ASSEMBLED IN THE ★U.S.A.★

Specifications

Specification	Data
Membrane	50 GPD
Maximum pressure	100 psi
Minimum pressure	40 psi
Maximum TDS	2,000 PPM
Maximum hardness	15 GPG
Maximum Iron	0.3 PPM
Maximum HS	0.0 PPM
Tubing (tank & faucet)	3/8"

Components

Components	Part number
Pre-filter, sediment	FPMB5-978
Pre-filter, carbon	WCBCS975
Membrane	W-1812-50
Post filter	AICRO
Faucet	FU-WDF-103NSF
Tank	ROPRO4-W
Fittings (inlet, outlet)	Quick Connect
Feed saddle valve	F560070

Models

Model Number	Stage	Membrane (GPD)	Tank	Faucet	Ship Wt.	No. Per Pallet
FMRO4G-ERP-USA	4	50	RO PRO	Non air gap	26	24

Systems are assembled in USA and stocked for immediate shipment.

Watts® Residential RO Systems

Top quality systems –ideal for private label marketing.

FMRO4J-USA

Features & Benefits

- Competitive pricing (with special discounts in pallet quantities).
- Top quality components for quality assurance.
- Proven design using compression fittings.
- Four stage treatment to reduce the widest range of drinking water contaminants.
- 50 GPD membrane (made in USA).
- RO PRO® non-metallic storage tank (only 9” in diameter - takes less space).
- Long reach chrome faucet.
- 3/8" tubing from tank to faucet for higher flow.
- Saddle valves, tubing and instructions included.
- One year limited warranty from date of purchase.

ASSEMBLED IN THE ★U.S.A.★

Specifications

Specification	Data
Membrane	50 GPD
Maximum pressure	100 psi
Minimum pressure	40 psi
Maximum TDS	2,000 PPM
Maximum hardness	15 GPG
Maximum Iron	0.3 PPM
Maximum HS	0.0 PPM
Tubing (tank & faucet)	3/8"

Components

Components	Part number
Pre-filter, sediment	FPMB5-978
Pre-filter, carbon	WCBCS975
Membrane	W-1812-50
Post filter	AICRO
Faucet	FU-WDF-103NSF
Tank	ROPRO4-W
Fittings (inlet, outlet)	Compression
Feed water valve	F560070

Models

Model Number	Stage	Membrane (GPD)	Tank	Faucet	Ship Wt.	No. Per Pallet
FMRO4J-USA	4	50	RO PRO	Non air gap	25	24

Systems are assembled in USA and stocked for immediate shipment.

Watts® Residential RO Systems

Unique manifold model eliminates many hose connections for greater security!

FMRO4-MAN

Features & Benefits

- Single-piece manifold design eliminates many hose connections for greater security.
- Comes with elements installed to reduce installation labor.
- Proven design using John Guest® quick connect fittings.
- Four stage treatment to reduce a wide range of drinking water contaminants.
- 50 GPD membrane (made in USA).
- Metal storage tank is standard
- Long reach chrome faucet.
- 3/8" tubing from tank to faucet for higher flow.
- Saddle valves, tubing and instructions included.
- One year limited warranty from date of purchase.

ASSEMBLED IN THE ★U.S.A.★

Specifications

Specification	Data
Membrane	50 GPD
Maximum pressure	100 psi
Minimum pressure	40 psi
Maximum TDS	2,000 PPM
Maximum hardness	15 GPG
Maximum Iron	0.3 PPM
Maximum HS	0.0 PPM
Tubing (tank & faucet)	3/8"

Components

Components	Part number
Pre-filter, sediment	FPMB5-978
Pre-filter, carbon	WCBCS975
Membrane	F110015
Post filter	WCBCS975
Faucet	FU-WDF-103NSF
Tank	FRO-132-WH
Fittings (inlet, outlet)	John Guest
Feed water valve	F560070

Models

Model Number	Stage	Membrane (GPD)	Tank	Faucet	Ship Wt.	No. Per Pallet
FMRO4-MAN	4	50	Metal	Non air gap	21	24

Systems are assembled in USA and stocked for immediate shipment.

GE Merlin On-Demand RO System

No tank required!

GE-RO-M750

Merlin™

Steady Stream Of Income!

Custom replacement components will be made available only through professional channels.

Built-In Convenience!

System's support leg also serves as a handy sump wrench.

Specifications

Model Number	GPD	Membrane Size	Membrane Number	Carton Dimensions	Shipping Wt. (lbs.)
GE-RO-M750	750	3.16" X 18.75"	GE-RO-M750-02	23x14x17	28

Spare Parts And Accessories

Part Number	Item Number	Description
GE-RO-M750-01	1234760	Replacement Carbon 2.9"X17" GE Merlin
GE-RO-M750-03	1244746	Post Carbon 2.6"X10.5" 3/8"JG GE Merlin
GE-RO-M750-04	1244617	GE Merlin RO Manifold Assembly
GE-RO-M750-05	1261345	GE Merlin RO Flush Kit
GE-RO-M750-FV1	x	GE Merlin 1/4" Feed Water Valve Kit
GE-RO-M750-CD	1264462	Merlin Concentrate Disconnect Assy Bk
GE-RO-M750-PU	1240632	GE Merlin Inlet Booster Pump 120V/60Hz
GE-RO-M750-FV2	x	GE Merlin Feed Water Adaptor 1/2"X1/2"X1/2"
GE-RO-M750-06	X	Sediment Cartridge

Light Commercial RO Systems

All systems are frame mounted.

FMRO5-150G

LC-380PP

LC-200P

Specifications

Model Number	GPD	Pump	Stage 1	Stage 2	Stage 3	Stage 4	Carton Dimensions	Shipping Wt. (lbs.)
LC-200P	200	1	IF-SP-2005	FI-CT0020/2	MM-TFF90/160 (2)	FI-GAC020HP	36x21x10	46
LC-300P	260	1	IF-SP-2005	FI-CT0020/2	MM-TFF90/160 (3)	FI-GAC020HP	36x21x10	48
LC-380PP	380	2	IF-SP-2005	FI-CT0020/2	FI-CT0020/2	MM-1812-100D (3)	36x21x10	53
FMRO5-150G	150	None	Unit with two 75 GPD membranes, carbon block pre-filter, auto shot-off, 3/8” fittings. No pump.					

Spare Parts

Part Number	Descriptions	LC-100P	LC-200P	LC-200P-MINI	LC-300P	LC-380PP
FC-DR550W	Flow restrictor 550 ML/Min	X				
FC-DR850W	Flow restrictor 850 ML/Min		X	X		
FC-DR1000W	Flow restrictor 1000 ML/Min				X	
FC-DR1200W	Flow restrictor 1200 ML/Min					X
PU-8800ESO-38	Electric shut off valve, 3/8”	X	X	X	X	X
PU-8010TSO	Tank shut off valve	X	X	X	X	X

NOTE: All systems come with pressure gauges and booster pump. Tank and feed water saddle valves are not included.

INSTALLATION & SERVICE MANUAL

Under-The-Sink Reverse Osmosis Systems:

315 **415**

525 **525P**

NSF	System Tested and Certified by NSF International against NSF/ANSI Standard 58 for the reduction of Arsenic, Barium, Cadmium, Copper, Cyst, Fluoride, Hexavalent Chromium, Lead, Radium 226/228, Selenium, TDS, Trivalent Chromium, Turbidity.

WATTS
1725 W. WILLIAMS DRIVE #C20
PHOENIX, AZ 85027
1-800-659-8400

Printed in the U.S.A.
199613

06/03/2010

Thank you for choosing the WATTS WATER QUALITY Reverse Osmosis Drinking Water System. With proper care your water filtration system will produce high quality drinking water for many years.

Read carefully and follow the instruction in this manual before proceeding with the actual installation. Pay particular attention to all warnings, cautions and notes. Failure to do so could result in personal injury or damage to the equipment or other property. System and installation need to comply with state and local laws and regulations. If you have any questions, please contact us at 800-659-8400 or call your local dealer.

CHECK LIST:

1) Reverse Osmosis Unit.
2) Water storage tank, 3 gallon volume (2.5 gallon @40psi).
3) Installation kit: tank ball valve, drain saddle clamp (1/4" & 3/8"), feed water valve, faucet assembly.
4) Manual.

1) Reverse Osmosis Unit (525 Shown)

2) Water Storage Tank 3 Gallon

3) Installation Kit

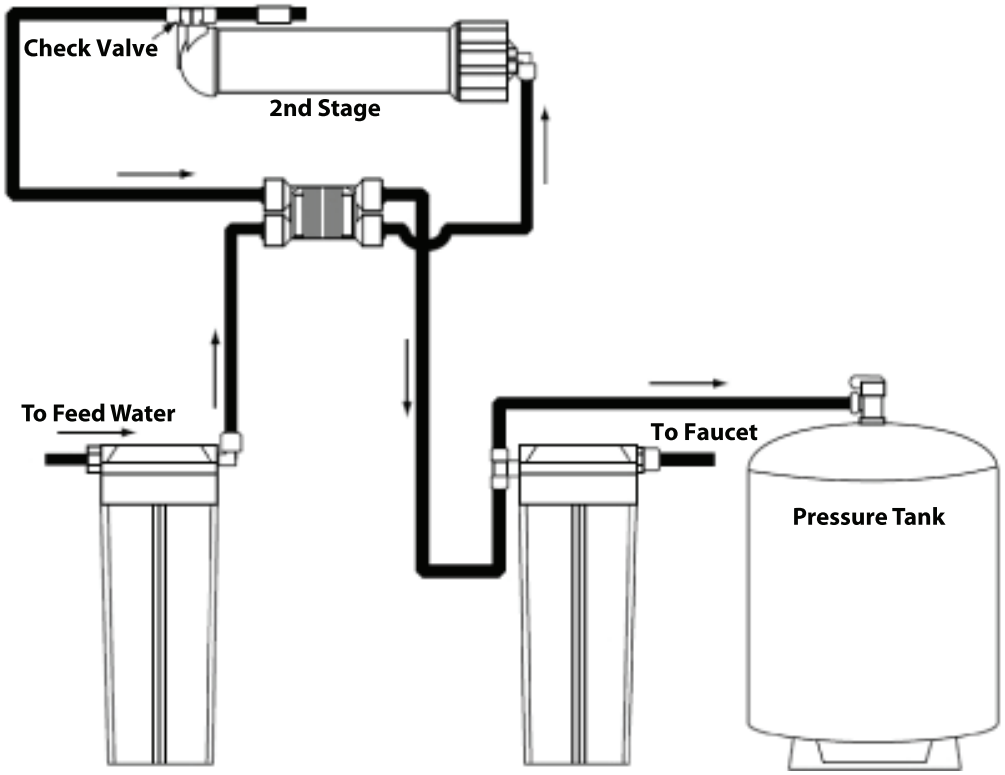
RECOMMENDED TOOLS LIST

* Variable speed drill
* 1/8" and 1/4" drill bits
* 7/16" drill bit 1/2" and 9/16 open-end wrenches (or adjustable)
* Phillips screwdriver
* Utility knife

This reverse osmosis system contains a replaceable treatment component critical for effective reduction of total dissolved solids. The product water shall be tested periodically to verify that the system is performing satisfactorily. System Tested and Certified by NSF International against NSF/ANSI Standard 58 for the reduction of Arsenic, Barium, Cadmium, Copper, Cyst, Fluoride, Hexavalent Chromium, Lead, Radium 226/228, Selenium, TDS, Trivalent Chromium, Turbidity.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

315 RO FILTRATION PROCESS



SPECIFICATIONS:

1st stage: Carbon Block filter, 5 micron, 10”

2nd stage: TFC membrane, 50GPD

3rd stage: Carbon Block filter, 5 micron, 10”

Auto shut off valve

Operating pressure: 40-100 PSI

Operating temperature: 40-100°F

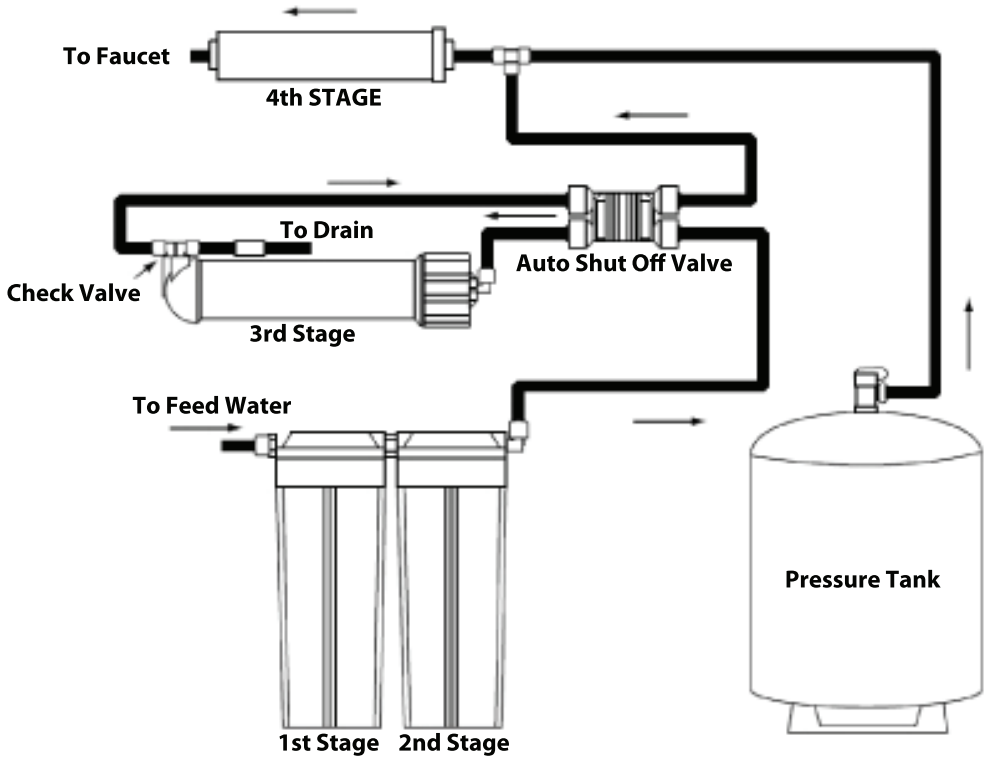
Please contact your local dealer at:

Or call WATTS WATER QUALITY at 800-659-8400 for your local dealer listing phone number

REPLACEMENT PARTS

WATTS ITEM#	DESCRIPTIONS	SERVICE LIFE
F109009	Carbon block filter, 5 micron, 10”	6-12 months
W-1812-50	TFC membrane, 50GPD @ 60PSI	24-36 months
F109009	Carbon block filter, 5 micron, 10”	6-12 months

415 RO FILTRATION PROCESS



SPECIFICATIONS:

1st stage: Sediment filter, 5 micron, 10”

2nd stage: Carbon block filter, 5 micron, 10”

3rd stage: TFC membrane, 50GPD @ 60PSI

4th stage: Inline carbon filter

Auto shut off valve

Operating pressure: 40-100 PSI

Operating temperature: 40-100°F

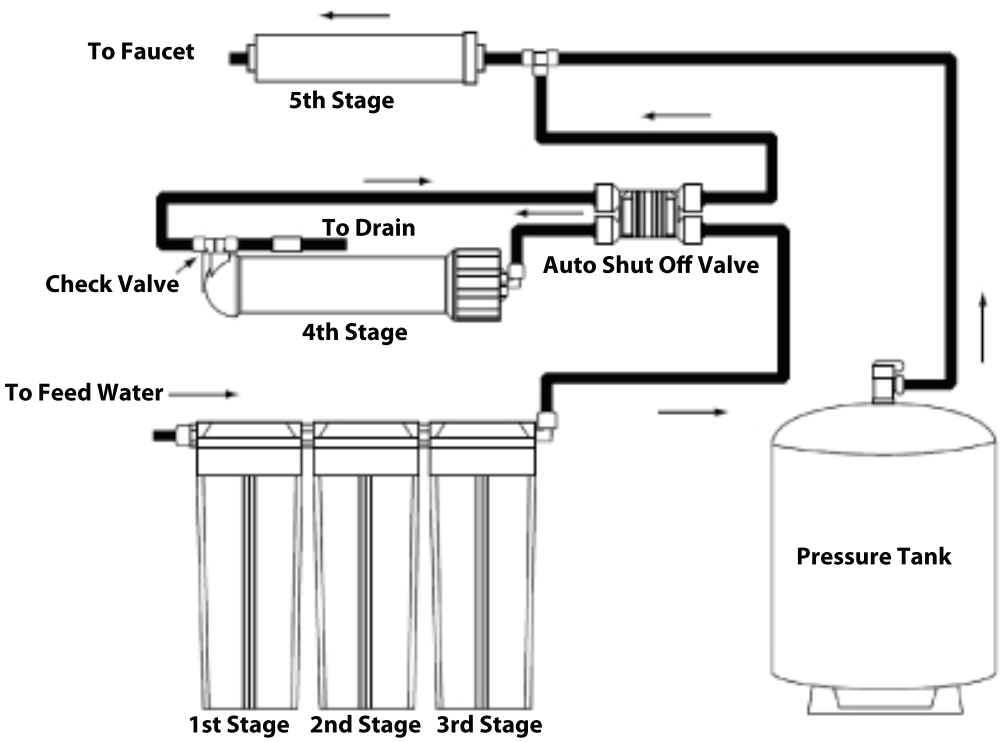
Please contact your local dealer at:

Or call WATTS WATER QUALITY at 800-659-8400 for your local dealer listing phone number

REPLACEMENT PARTS

WATTS ITEM#	DESCRIPTIONS	SERVICE LIFE
IF-SP-1005	Sediment filter, 5 micron, 10”	6-12 months
F109009	Carbon block filter, 5 micron, 10”	6-12 months
W-1812-50	TFC membrane, 50GPD @ 60 PSI	24-36 months
W560033	Inline carbon filter	12-18 months

525 RO FILTRATION PROCESS



SPECIFICATIONS:

1st stage: Sediment filter, 5 micron, 10”

2nd stage: Carbon Block filter, 5 micron, 10”

3rd stage: Carbon Block filter, 5 micron, 10”

4th stage: TFC membrane, 50GPD @ 60 PSI

5th stage: Inline carbon filter

Auto shut off valve

Operating pressure: 40-100 PSI

Operating temperature: 40-100°F

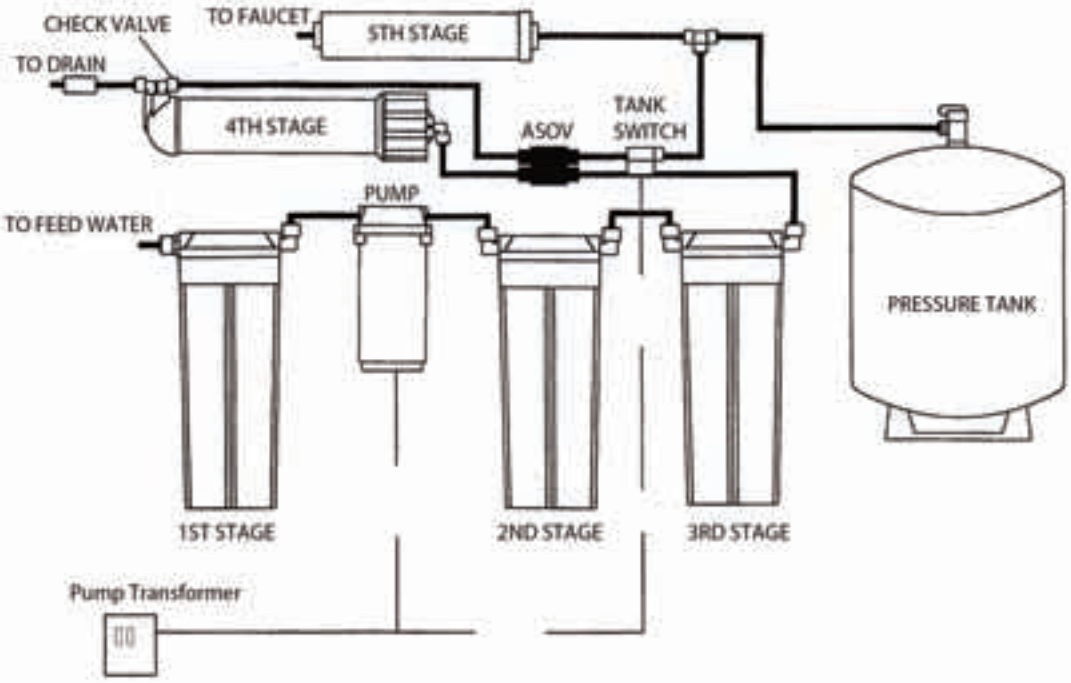
Please contact your local dealer at:

Or call WATTS WATER QUALITY at 800-659-8400 for your local dealer listing phone number

REPLACEMENT PARTS

WATTS ITEM#	DESCRIPTIONS	SERVICE LIFE
IF-SP-1005	Sediment filter, 5 micron, 10”	6-12 months
F109009	Carbon block filter, 5 micron, 10”	6-12 months
F109009	Carbon block filter, 5 micron, 10”	6-12 months
W-1812-50	TFC membrane, 50GPD @ 60PSI	24-36 months
W560033	Inline carbon filter	12-18 months

525P RO FILTRATION PROCESS



SPECIFICATIONS:

1st stage: Sediment filter, 5 micron, 10"

2nd stage: Carbon Block filter, 5 micron, 10"

3rd stage: Carbon Block filter, 5 micron, 10"

4th stage: TFC membrane, 50GPD @ 60 PSI

5th stage: Inline carbon filter

Auto shut off valve

Operating pressure: 40-100 PSI

Operating temperature: 40-100°F

Please contact your local dealer at:

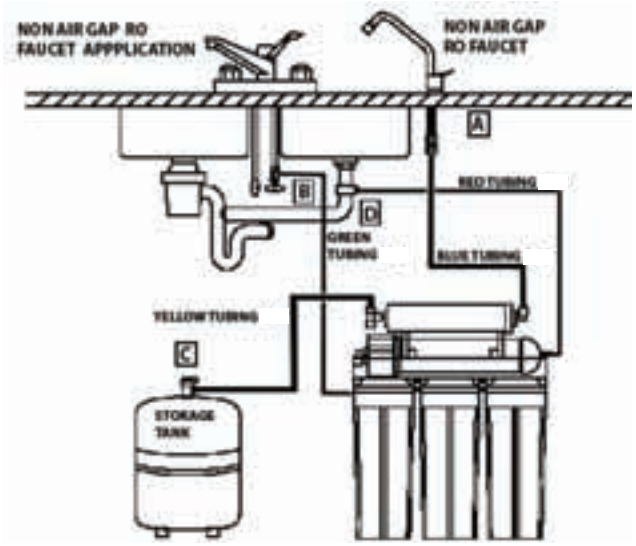
Or call WATTS WATER QUALITY at 800-659-8400 for your local dealer listing phone number

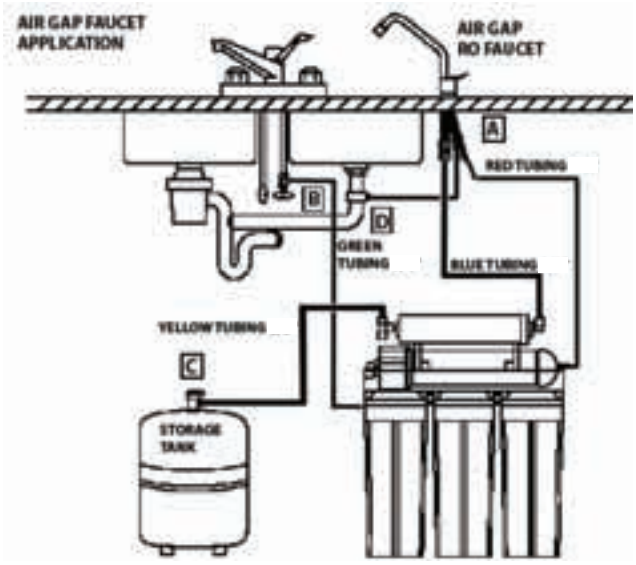
REPLACEMENT PARTS

WATTS ITEM#	DESCRIPTIONS	SERVICE LIFE
IF-SP-1005	Sediment filter, 5 micron, 10"	6-12 months
F109009	Carbon block filter, 5 micron, 10"	6-12 months
F109009	Carbon block filter, 5 micron, 10"	6-12 months
W-1812-50	TFC membrane, 50GPD @ 60PSI	24-36 months
W560033	Inline carbon filter	12-18 months

INSTALLATION QUICK LOOK

Please follow 4 color tubing diagram to complete installation





CAUTION: When cutting supplied tubes, predetermine the length by measuring the distance between the components to be connected.
No tools are needed to connect 4 colored tubes.

HOW TO MAKE A CONNECTION

1. CUT THE TUBE SQUARE

Cut the tube square. It is essential that the outside diameter be free from score marks and that burrs and sharp edges be removed before inserting into fitting. For soft thin walled plastic tubing we recommend the use of a tube insert.

2. INSERT TUBE

Fitting grips before it seals. Ensure tube is pushed into the tube stop.

3. PUSH UP TO TUBE STOP

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.

4. PULL TO CHECK SECURE

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.

Disconnecting *PUSH COLLET AND REMOVE TUBE*

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.

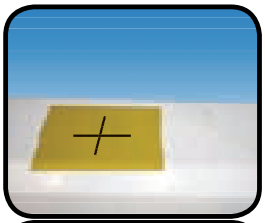
Please follow any special plumbing codes in your area.

	Connections	Item No.	Color of Tubing	Description
A	RO Faucet	FU-WDF-905-CP	Blue	Pure water to the Faucet
B	Feed Water Valve	F560080 / F560070	Green	Feed Water to RO System
C	Tank Ball Valve	PSV501222W	Yellow	Pure Water to Storage Tank
D	Drain Connector	SC500B14/38	Red	Discharge Water to Drain

DRILL A HOLE FOR THE FAUCET IN A PORCELAIN SINK

Note:
Most sinks are pre drilled with 1 ½" or 1 ¼" diameter hole that you can use for your RO faucet. (If you are already using it for a sprayer or soap dispenser, see step 1)

Porcelain sinks are extremely hard and can crack or chip easily.
Use extreme caution when drilling. Watts accepts no responsibility for damage resulting from the installation of faucet. Diamond tip bit recommended.



1) Determine desired location for the RO faucet on your sink and place a piece of masking tape over where the hole is to be drilled. Mark the center of the hole on the tape.

2) Using a variable speed drill set on the slowest speed, drill a $^{1}/_{8}$" pilot hole through both porcelain and metal casing of sink at the marked center of the desired location. Use lubricating oil or liquid soap to keep the drill bit cool (If drill bit gets hot it may cause the porcelain to crack or chip).

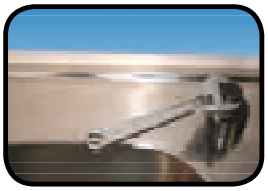
3) Using a 1 ¼" hole saw, proceed to drill the large hole. Keep drill speed on the slowest speed and use lubricating oil or liquid soap to keep the hole saw cool during cutting.

4) Make sure the surroundings of the sink are cooled before mounting the faucet to the sink after drilling and remove all sharp edges.

PUNCH A HOLE FOR THE FAUCET IN A STAINLESS STEEL SINK

Note:

If mounting faucet to a Stainless Steel Sink you will need a 1/2" & 1 ¼" Hole Punch. The faucet opening should be centered between the back splash and the edge of the sink, ideally on the same side as the vertical drain pipe.



5) Drill a ¼" pilot hole. Use a $^{1}/_{2}$" Hole Punch and an adjustable wrench to punch the hole in the sink. Change to the 1 ¼" Hole Punch to enlarge the hole.

The faucet can now be installed.

Typical RO Faucet Installation

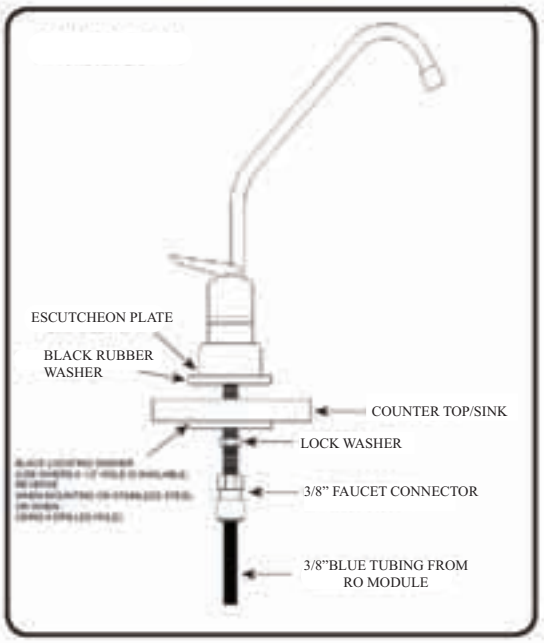
Drinking Feed Tube Connection

Non Air Gap Faucet

Locate the 3/8” threaded quick connect fitting in the parts bag. After the faucet has been mounted, thread the fitting on the to faucet stem. Connect the 3/8” blue feed tube to the 3/8” quick connect fitting on the faucet stem. The final polishing filter is clipped on to the top of the RO membrane housing. Attached to the polishing filter is a 3/8” quick connect elbow fitting. Attach the open end of the 3/8” blue tubing from the RO faucet to the 3/8” quick connect elbow on the polishing filter.

With Non Air-Gap faucets this will be the only tube connected to the RO faucet.

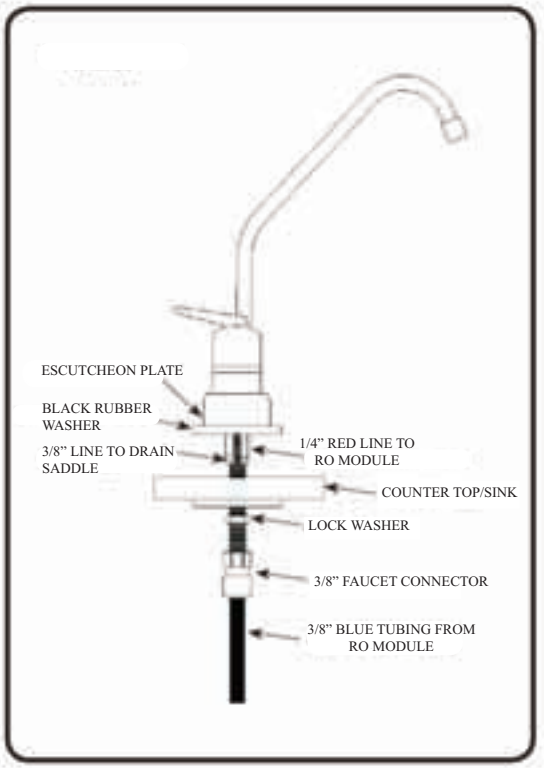
Non Air Gap Faucet Installation



Air Gap Faucet

Follow the drinking feed tube connection instructions above. Connect the 1/4” drain tube from the RO module up to the 1/4” fitting on the RO faucet. The 3/8” drain tube from the RO faucet will connect to the 3/8” drain saddle.

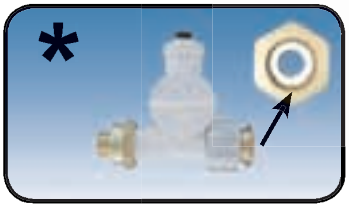
Air Gap Faucet Installation



FEED WATER VALVE INSTALLATION

Water supply line to the system must be from the cold water supply line only. Hot water will severely damage your system!

Plastic Valve:

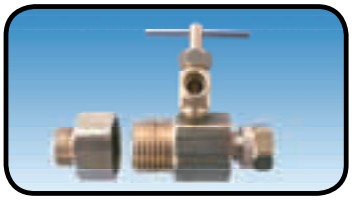


Configuration for 3/8"
(With Brass Fittings)
***Use White Washer**

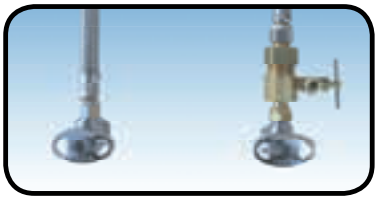
Hot Supply **Cold Supply**

Configuration for 1/2"
(Without Brass Fittings)

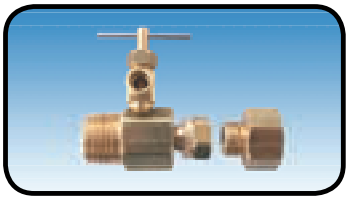
Brass Valve:



Configuration for 3/8"
compression fittings



Hot Supply **Cold Supply**



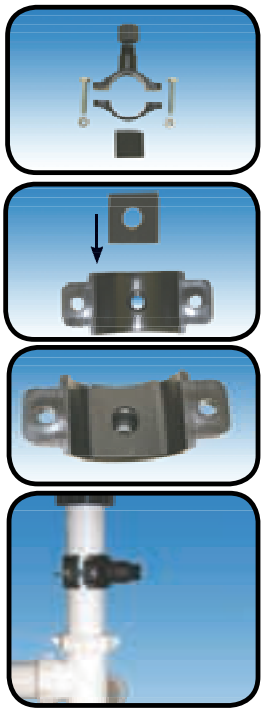
Configuration for 1/2"
compression fittings

1) Turn off the cold water supply to the faucet by turning the angle stop valve completely off.
2) Attach the adapt-a-valve as illustrated in the three photos above, choosing the configuration that fits your plumbing.

DRAIN SADDLE INSTALLATION

Use the 1/4" Drain Saddle with non air-gap faucet and 3/8" with air-gap faucet.

Caution:
If you have a garbage disposal, do not install the drain saddle near it. Installation of the drain saddle must be either above the garbage disposal, or if a second sink drain is available, install it above the cross bar on the second drain. Installation of the drain saddle near a garbage disposal may cause the drain line to plug.



1) Gather the pieces of the drain saddle

1 Black compression nut	1 Semicircle bracket with opening
2 Screws	1 Foam gasket
2 Nuts for screws	1 Semicircle bracket

2) The small square black foam gasket with a circle cut out of the middle must be applied to the inside of the drain saddle. Remove sticky tape backing and stick to the drain saddle as shown.

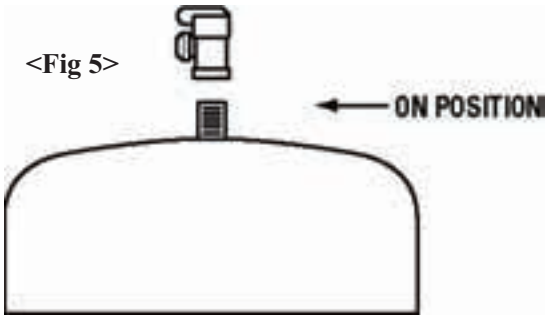
3) The drain saddle must be mounted at least 1 ½" above the nut of the P-trap or cross bar from the garbage disposal to insure proper drainage. Assemble the drain saddle around the drain pipe at the best available location. Using Phillips screw driver tighten screws evenly and securely on both sides of the drain saddle. Keep the plastic compression nut off at this time.

Caution: Do not over tighten the screws. It may crack the drain saddle.

STEP 3: MOUNTING THE TANK BALL VALVE

Note: Do not tamper with the air valve on low side of storage tank. It has been preset at 5-7 psi by the manufacturers.

1) With the provided teflon tape wrap 3-4 turns in a clockwise direction around the male threaded connection on the top of the storage tank,
2) Connect the ball valve to the thread. Make sure it is tight but not over tight. ***See*** **<Fig. 5>.**
4) Connect the yellow tubing from to the tank ball valve. Push the tubing in all the way to make sure it is properly seated.
5) Turn the tank ball valve off.



<Fig 5>

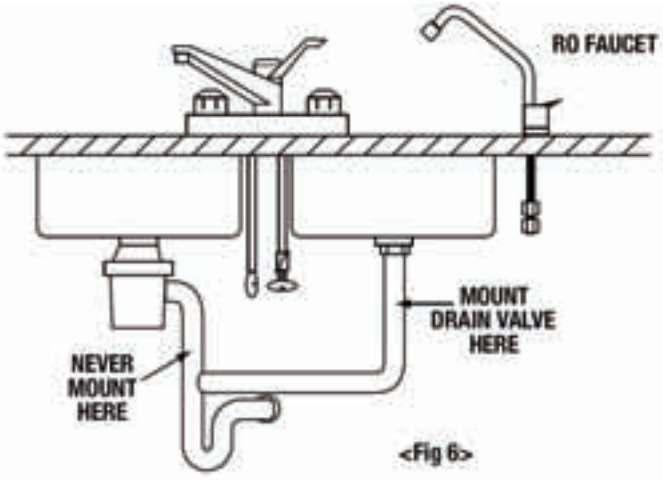
TOP VIEW OF TANK BALL VALVE (PPSV501222W)

OFF POSITION **ON POSITION**

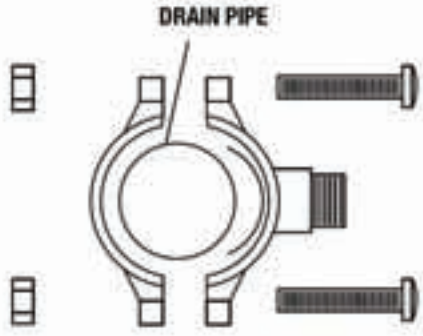
STEP 4: MOUNTING THE DRAIN CLAMP

The drain clamp (SC500B14/38) will fit most standard drain pipe 1/4". It should be installed above the trap and on the vertical tailpiece. See **<Fig. 6>**

1) Position the drain saddle in desired location, mark spot through thread outlet, remove saddle.
2) Drill 1/4"(6.3mm) hole into the drain pipe above the water line of trap.
3) Align the hole drilled in the drain pipe with the drain saddle using a drill bit or other narrow straight object and tighten clamp.
4) Make sure to align drain saddle to drilled hole. Attach drain saddle to drain pipe and tighten the two screws evenly. See **<Fig. 7>**.
5) Connect black tubing to drain clamp.



<Fig 6>



<Fig 7>

START UP INSTRUCTIONS

1) Turn on the incoming cold water at the angle stop valve. Open the valve knob on the water feed Adapt-a-Valve by turning the knob counter clockwise. Check the system for leaks and tighten any fittings as necessary. (Check frequently over the next 24 hours to ensure no leaks are present).

NOTE:

If you have connected your RO system to a refrigerator / ice maker, make sure the ice maker is off (do not allow water to flow to the ice maker) until flushing (Step 5) is complete and the tank has been allowed to fill completely. Connection from the RO to the ice maker system should have an in-line valve installed before the ice maker so it can easily be closed to prevent water flowing to the ice maker during start up and periodic maintenance. Your RO tank must be allowed to fill up fully in order for the ice maker system to work properly.

2) Open the RO faucet and leave it open until water begins to trickle out (it will come out slowly).

3) Close the RO faucet allowing the storage tank to fill with water. It may take 4 to 6 hours to fill the tank completely depending on the production capability of the membrane, local water temperature and water pressure.

NOTE:

During the fill period you may hear water trickling due to the Reverse Osmosis Process.

4) After the Tank has filled, open the RO Faucet to flush the tank completely. You will know that the tank is empty when the flow rate from the RO faucet is down to a trickle. Repeat this step two more times. The fourth tank can be used for drinking. This flushing process should take about 24 hours to complete.

NOTE:

The flushing process should take about a day to complete.

Flushing of the tank 3 times is only necessary during the initial startup and after replacing the membrane.

NOTE:

1) Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

2) This reverse osmosis system contains a replaceable component critical to the efficiency of the system. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.

WARNING: Do not use this RO system appliance to purify non-drinkable sources of water that are unsafe or with water of unknown quality.

WARNING: Never use hot water or freeze unit.

WARNING: Incorrect installation will VOID the warranty.

CLEANING PROCEDURES

1) Shut off the source water supply to the RO system.

2) Open the RO faucet and depressurize the RO system and storage tank.

3) Remove pre-filter cartridges, post-filter cartridges, and RO membrane. Discard or prepare for cleaning. If the RO membrane element is to be reused, disinfectant solution should be introduced into the permeate tube outlet sufficient to remove biofilm in this vulnerable area, before reinserting the membrane into the housing. Use 1/4 teaspoon (1 ml) of unscented 5.25% sodium hypochlorite liquid household bleach.

4) Wash the internal housing areas with warm soapy water using a clean brush (do not scratch the surface of the housings). Be sure to clean o-ring grooves thoroughly. Remove the existing o-ring. Discard o-ring or prepare for cleaning.

5) Rinse off all housing pieces with clean water to remove soap.

6) Replace o-rings, and lubricate with a water soluable lubricant. *KY Jelly®* *or other non petroleum water based lubricants* *may be used.*.

7) Pour about 1/4 teaspoon (1 ml) of unscented 5.25% sodium hypochlorite liquid household bleach into each of the clean housings and replace housings on the RO system.

8) Disconnect RO storage tank from the system.

9) RO storage tank cleaning procedure:

Recommended items:

- ***Tank sanitizer feeder or small filter housing with fittings and tubing***
- ***Disinfectant solution***
- ***Pressure gauge and air pump***

a) The tank should be empty. Check the air pre-charge pressure with an accurate gauge (low pressure type 0-12 lbs.). The average tank pressure should be 5-7psi (when the tank is empty).

b) Fill the tank sanitizer feeder with the recommended disinfectant dosage, and connect the feeder to the water supply and RO storage tank.

c) Turn on water supply and force water and disinfectant solution into the RO storage tank. The storage tank should feel heavy when filled.

d) The disinfectant solution should remain in the tank a minimum of 10 minutes. If the tank has not been sanitized in over a year, leave the solution in for 20 to 30 minutes. Turn off the water supply valve and the RO storage tank valve. Disconnect the sanitizer feeder, and connect the RO storage tank to the RO unit (the tank ball valve should remain closed).

CLEANING PROCEDURES - CONTINUED

10) Open the feed water valve and open the RO faucet until water flows freely from the spout. Close the RO faucet. Hold the disinfectant solution in the RO system, including the tubing and faucet, for a minimum of 10 minutes. Open the tank ball valve.

11) Shut off the feed water valve and open the RO faucet. Let water run out until the flow stops at the RO faucet.

12) Open the feed water valve. Let water flow freely from the faucet for three minutes. Shut off the water at the source water supply with RO faucet open.

13) When the flow of water has stopped at the RO faucet, remove the filter housing sumps and membrane housing from the RO system. Replace the filters and membrane according to the service life.

14) Replace the housings on the RO system. Open the source water valve and allow the water to flow from the faucet.

- **Because some of the disinfectant may still be in the system, the system should be flushed prior to using the water human consumption.**

- **A maintenance record should be kept for the RO system, including information about the replacement parts, when service was performed, and by whom.**

PREVENTIVE MAINTENANCE

These recommendations are intended for maximize efficiency of RO water production by your system.

1) **Filter maintenance**
   a) It is OK to store filters shrink wrapped on the shelf for several years.
   b) To store the sealed, unopened filter, we recommend that it be kept in an air tight container. This prolongs the shelf life of the carbon filter and avoids having the filter absorb any possible odor from the air.

2) **Membrane maintenance**
   a) The dry packed membrane usually has a two-year shelf life. To prolong the shelf life, we recommend keeping unopened dry membrane in a refrigerator.
   b) Once the membrane is in use, we recommend running the RO system every day for at least 10-15 minutes (about 1 gallon or 4 liters of drinking water). This helps to maintain the membrane performance.
   c) If the RO system is not used for over a week, drain the storage tank first. Then fill the tank and drain it twice. Your RO system is now ready to use again.
   d) This reverse osmosis system contains a replaceable component critical to the efficiency of the system. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to ensure the same efficiency and contaminant reduction performance.

Note: If it is too tight to open the housing you may try unplugging the fitting between red tubing and the system in order to reduce the air and water pressure inside the housing.

3) **Filter and membrane change procedures:**
   a) Shut off the water supply.
   b) Turn off the tank ball valve by turning it 90 degrees.
   c) Open RO faucet to the continuous flow position to relieve pressure.
   d) Slide in the housing wrench. Use one hand to hold the system and the other hand to turn the wrench clockwise to open the housing.
   e) After opening the housing, remove the used filter and put the new filter into the housing. Make sure the o-ring is back in place and turn the housing counter-clockwise to close.
   f) Repeat previous step to change second filter.
   g) Turn on the water supply and make sure there are no leaks.
   h) Let the water drip from the faucet for about 10 minutes. If the water flow is less than 1 cup (8 oz. or 240 ml) per minute, it may be a signal to change the membrane.
   i) Membrane change procedures:

- Unscrew the membrane housing cap.
- Slide out the used membrane and discard.
- Insert the new membrane into the housing. The end with the two o-rings should go in first; to prevent leaks be sure it is fully seated in the bottom of the housing.
- Screw the cap back onto the membrane housing, making sure o-ring is still in place.
- It may take 10-20 minutes for the new membrane to run at normal flow.

If the water flow is OK, then turn on the tank ball valve. After 1 minute, turn off the RO faucet and complete the filter change procedures.

WATTS WATER QUALITY

1725 W. Williams Drive C-20
Phoenix, AZ 85027 USA
MODELS: 315, 415, 525, 525P

System conforms to NSF Standard 58 for specific claims.

GENERAL USE CONDITIONS:

1. System to be used with municipal or well water sources treated and tested on regular basis to insure bacteriological safe quality. DO NOT use with water that is micro biologically unsafe or unknown quality without adequate disinfection before and after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
2. Operating Temperature: Maximum: 100°F (40.5°C) Minimum: 40° (4.4°)
3. Operating Water Pressure: Maximum: 100 psi (7.0kg/cm2) Minimum: 40 psi (2.8kg/cm2)
4. pH 2 to 11
5. Maximum iron present in incoming feed water supply must be less than 0.2 ppm.
6. Hardness of more than 10 grains per gallon (170 ppm) may reduce membrane life expectancy.
7. Recommend TDS (Total Dissolved Solids) not to exceed 1800 ppm.

This system has been tested according to NSF/ANSI 58 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ANSI 58. This system has been tested for the treatment of water containing pentavalent arsenic (also known as As (V), As (+5), or arsenate) at concentrations of 0.30 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual at the system inlet or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic, Please see the Arsenic Facts section of the Performance Data Sheet for further information.

	Avg. In. (mg/L)	**Avg. Eff. (mg/L)**	**% Reduction**	**pH**	**Pressure**	**Max Eff. mg/L**	**Inf. challenge concentration mg/L**	**Max Allowable concentration mg/L**
Arsenic (Pentavalent)	334.62 ug/L	5.039 ug/L	98.4%		50psi	19 ug/L	0.30±10%	0.010 mg/L
Barium Reduction	10.2	0.13	98.7%	7.24	50psi	0.27	10.0±10%	2.0
Cadmium Reduction	0.031	0.0001	99.7%	7.49	50psi	0.0009	0.03±10%	0005
Chromium (Hexavalent)	0.30	0.006	98.0%	7.24	50psi	0.013	0.03±10%	0.1
Chromium (Trivalent)	0.30	0.003	99.0%	7.24	50psi	0.008	0.03±10%	0.1
Copper Reduction	3.0	0.04	98.7%	7.64	50psi	0.06	3.0±10%	1.3
Cysts	222,077#/ml	10 #/ml	99.99%		50psi	58	minimum 50,000/mL	N/A
Fluoride Reduction	8.0	0.33	95.9%	7.49	50psi	0.47	8.0±10%	1.5
Lead Reduction	0.15	0.004	97.3%	7.49	50psi	0.008	0.15±10%	0.0107
Radium 226/228	25pCi/L	5pCi/L	80.0%	7.24	50psi	5pCi/L	25pCiL±10%	5pCiL
Selenium	0.10	<0.001	99.0%		50psi	<0.001	0.10±10%	0.05
TDS	790	29	96.0%	7.80	50psi	47	750±40mg/L	187
Turbidity	81 NTU	0.15 NTU	99.8%		50psi	0.28 NTU	11±1 NTU	0.5 NTU

Recovery - 13.3% Daily Production Rate - 13.7 GPD Efficiency - 7.80%

Depending on water chemistry, water temperature, and water pressure Watts R.O. Systems production and performance will vary. Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage. Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed. There is an average of 4 gallons of reject water for every 1 gallon of product water produced.
REFER TO OWNER'S INSTALLATION/SERVICE MANUAL FOR FURTHER MAINTENANCE REQUIREMENTS AND WARRANTY INFORMATION.

Phone: 800-659-8400 Fax: 800-659-8402 WWW.WATTS.COM

REPLACEMENT PARTS

Model: 315

WATTS ITEM#	DESCRIPTIONS	SERVICE LIFE
F109009	Carbon block filter, 5 micron, 10”	6-12 months
W-1812-50	TFC membrane, 50GPD @ 60 PSI	24-36 months
F109009	Carbon block filter, 5 micron, 10”	6-12 months

Model: 415

WATTS ITEM#	DESCRIPTIONS	SERVICE LIFE
IF-SP-1005	Sediment filter, 5 micron, 10”	6-12 months
F109009	Carbon block filter, 5 micron, 10”	6-12 months
W-1812-50	TFC membrane, 50GPD @ 60 PSI	24-36 months
W560033	Inline carbon filter	12-18 months

Model: 525 & 525P

WATTS ITEM#	DESCRIPTIONS	SERVICE LIFE
IF-SP-1005	Sediment filter, 5 micron, 10”	6-12 months
F109009	Carbon block filter, 5 micron, 10”	6-12 months
F109009	Carbon block filter, 5 micron, 10”	6-12 months
W-1812-50	TFC membrane, 50GPD @ 60 PSI	24-36 months
W560033	Inline carbon filter	12-18 months

ARSENIC FACT SHEET

Arsenic (As) is a naturally occurring contaminant found in many ground waters. Arsenic in water has no color, taste or odor. It must be measured by an arsenic test kit or lab test.

Public water utilities must have their water tested for arsenic. You can obtain the results from your water utility contained with in your consumer confidence report. If you have your own well, you will need to have the water evaluated. The local health department or the state environmental health agency can provide a list of test kits or certified labs.

There are two forms of arsenic: pentavalent arsenic (also called As (V), As (+5)) and trivalent arsenic (also called As (III), As (+3)). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Although both forms of arsenic are potentially hazardous to your health, trivalent arsenic is considered more harmful than pentavalent arsenic.

RO systems are very effective at removing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramine) where it does convert trivalent arsenic to pentavalent arsenic, may not convert all the trivalent arsenic in to pentavalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system.

This Watts Water Quality reverse osmosis system is designed to remove up to 98% of pentavalent arsenic. It will not convert trivalent arsenic to pentavalent arsenic. Under laboratory standard testing conditions, this system reduced 0.30 mg/L (ppm) pentavalent arsenic to under 0.010 mg/L (ppm) (the USEPA standard for drinking water). Actual performance of the system may vary depending on specific water quality conditions at the consumer's installation. In addition to the independent laboratory standard testing conditions Watts has conducted additional field testing on our reverse osmosis units to determine trivalent arsenic reduction capabilities. Based upon Watts field testing, it has been determined that the RO units are capable of reducing up to 67% of trivalent arsenic from the drinking water.

TROUBLE SHOOTING
Note: turn off the system before servicing

PROBLEM	CAUSE	SOLUTIONS
Milky colored water	Air in system	Air in the system is a normal occurrence with initial startup of the RO system. This milky look will disappear during normal use within 1 to 2 weeks.
Noise from faucet	Air gap faucet Location of drain saddle Restriction in drain line	Will disappear after system shuts down Relocate the drain to above water trap. Blockage sometimes caused by debris from garbage disposal or dishwasher
Small amount of water from storage tank	System just starting up Air pressure in storage tank is low	Normally it takes 2-3 hours to fill tank. Low water pressure and/or temperatures can reduce production rate. Add pressure to storage tank. The pressure should be 8-10 psi when the tank is empty
Slow production	Low water pressure Crimps in tubing Clogged pre-filters Fouled membrane	Add a booster pump Make sure tubing is straight Replace pre-filters Replace membrane
Water taste or smell offensive	Post carbon is depleted Fouled membrane Sanitizer not flushed out	Replace post carbon Replace membrane Drain storage tank and Refill it overnight
No drain water	Clogged flow restrictor	Replace flow restrictor
Leaks	Fittings are not tightened Twisted O-ring Misalignment of hole in drain saddle	Tighten fittings as necessary Replace a o-ring Realign drain saddle

Limited Warranty

What your Warranty Covers:
If any part of your WATTS WATER QUALITY Reverse Osmosis System is defective in workmanship (excluding replaceable filters and membranes), return unit after obtaining a return authorization (see below), less tank, within 1 year of original retail purchase, WATTS WATER QUALITY will repair or, at WATTS WATER QUALITY option, replace the system at no charge.

How to obtain Warranty Service:
For warranty service, call 1-800-659-8400 for documentation and a return authorization number. Once the return authorization number has been created, ship your Reverse Osmosis unit (less tank) to our factory, freight and insurance prepaid, with proof of date of original purchase. Include a note stating the problem experienced and include your name, address and your return authorization number. No returns will be accepted with out the proper return authorization number. WATTS WATER QUALITY will repair it, or replace it, and ship it back to you prepaid.

What this warranty does not cover:
This warranty does not cover defects resulting from improper installation, from abuse, misuse, misapplication, improper maintenance, neglect, alteration, accidents, casualties, fire, flood, freezing, environmental factors, water pressure spikes or other such acts of God.

This warranty will be void if defects occur due to failure to observe the following conditions:

1. The Reverse Osmosis System must be hooked up to a potable municipal or well cold water supply.
2. The hardness of the water should not exceed 10 grains per gallon, or 170 ppm.
3. Maximum incoming iron must be less than 0.2 ppm.
4. The pH of the water must not be lower than 2 or higher than 11.
5. The incoming water pressure must be between 40 and 85 pounds per square inch.
6. Incoming water to the RO cannot exceed 105 degrees F (40 degrees C.)
7. Incoming TDS/Total Dissolved Solids not to exceed 1800 ppm.
8. Do not use with water that is micro biologically unsafe or of unknown quality without adequate disinfection before or after the system.

This warranty does not cover any equipment that is relocated from the site of its original installation.
This warranty doe not cover any charges incurred due to professional installation.
This warranty does not cover any equipment that is installed or used outside the United States of America and Canada.

LIMITATIONS AND EXCLUSIONS:

WATTS WATER QUALITY WILL NOT BE RESPONSIBLE FOR ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. WWQ WILL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING TRAVEL EXPENSE, TELEPHONE CHARGES, LOSS OF REVENUE, LOSS OF TIME, INCONVENIENCE, LOSS OF USE OF THE EQUIPMENT, AND DAMAGE CAUSED BY THIS EQUIPMENT AND ITS FAILURE TO FUNCTION PROPERLY. THIS WARRANTY SETS FORTH ALL OF WWQ RESPONSIBILITIES REGARDING THIS EQUIPMENT.

OTHER CONDITIONS:

If WATTS chooses to replace the equipment, WATTS WATER QUALITY may replace it with reconditioned equipment. Parts used in repairing or replacing the equipment will be warranted for 90 days from the date the equipment is returned to you or for the remainder of the original warranty period, whichever is longer. This warranty is not assignable or transferable.

YOUR RIGHTS UNDER STATE LAW:
Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply. This warranty gives you specific legal rights, and you may have other legal rights which vary from state to state.

Series
FMRO4 & 5 USA

INSTALLATION, OPERATION & MAINTENANCE MANUAL

Warning

Please read carefully before proceeding with installation. Your failure to follow the instructions or operating parameters may lead to the product's failure and possible damage to property. Please save this manual for future reference.

M-FMRO4&5SERIES-WWQP-09-49

WATTS
A Watts Water Technologies Company

NOTE: This manual is used for several variations of the same system. Your system may vary slightly from the pictures or descriptions contained in this manual.

It is end users responsibility to ensure that this system is installed according to all local codes and regulations.

Thank you for your purchase of a state of the art Watts Reverse Osmosis (RO) water treatment system. Water quality concerns are becoming more of a focus for the public. This Watts water treatment system has been designed and tested to provide you with high quality water for years to come. The following is a brief overview of the system.

Your Reverse Osmosis System:

Osmosis is the process of water passing through a semi permeable membrane in order to balance the concentration of contaminants on each side of the membrane. A semi permeable membrane is a barrier that will pass some substances like clean water, but not other substances such as salts and minerals.

Reverse osmosis uses a semi permeable membrane; however, by applying pressure across the membrane, it concentrates contaminants on one side of the membrane, producing clean water on the other. This is why RO systems produce both clean drinking water and waste water that is flushed from the system.

Your system is a Four Stage RO which is based upon four separate treatment segments within one complete water filtration system. These stages are as follows:

Stage 1 – Sediment filter, recommended change 6 months.

The first stage of your RO system is a five micron sediment filter that traps sediment and other particulate matter like dirt, silt and rust which affect the taste and appearance of your water.

Stage 2 – Pre-Carbon filter, recommended change 6 months.

The second stage contains a carbon block filter. This helps ensure that chlorine and other materials that cause bad taste and odor are greatly reduced.

Stage 3- Membrane, recommended change 1-2 years.

Stage three is the heart of the reverse osmosis system, the RO membrane. This semi-permeable membrane will take out salts, minerals, metals, bacteria, viruses, cysts, and much more. Because the process of extracting this high quality drinking water takes time, your RO water treatment system is equipped with a storage tank.

Stage 4- Post Carbon Filter, recommend change 12 months.

The post carbon filter is a granular activated carbon (GAC) cartridge using coconut shell carbon. This filter provides final polishing and assures good tasting drinking water.

System Maintenance

Just because you can not taste it, does not mean that it is not there. Contaminants such as lead, chromium, and arsenic are undetectable to the taste. Additionally, over time if you do not replace the filter elements, other bad tastes and odors will be apparent in your drinking water.

This is why it is important to change out your filter at the recommended intervals as indicated in this system manual. Should you have any further questions please contact the dealer that you purchased the unit from.

With proper installation and maintenance, this system will provide you with high quality water for years to come. All of Watts water enhancement products are rigorously tested.

Table of Contents

Operational Parameters

Operating Temperatures:	Maximum 100°F (37.8°C)	Minimum 40°F (4.4°C)
Operating Pressure:	Maximum 100 psi (7.0 kg/cm^2)	Minimum 40 psi (2.80 kg/cm^2)
pH Parameters:	Maximum 11	Minimum 2
Iron:	Maximum 0.2 ppm	
TDS (Total Dissolved Solids)	< 1800 ppm	
Turbidity	< 5 NTU	

Hardness: Recommended hardness should not exceed 10 grains per gallon, or 170 ppm. System will operate with hardness over 10 grains but the membrane life may be shortened. (Addition of a water softener may lengthen the membrane life.)

Note: The operating pressure in your home should be tested over a 24 hour period to attain the maximum pressure. If incoming pressure is above 85 psi a pressure regulator is recommended and if over 100 psi then a pressure regulator is required.

Note: Reverse Osmosis water should not be run through copper tubing as the purity of the water will leach copper and cause an objectionable taste in water and may cause damage to copper tubing. Watts supplies specialty medias that can be used if copper tubing is down stream of the RO. Be sure to follow any state or local regulations.

Contents of Reverse Osmosis (RO) System

1 Tank
1 RO System
1 Parts Bag
1 Faucet Bag
1 Filter Wrench
1 Manual and Warranty Card

If any of the items are missing please contact your dealer.

Tools Recommended For Installation

1 1/4” Hole Saw Bit for Faucet opening and/ or
Round Knock out Punch for Stainless Sinks 1 1/4”
Adjustable Wrench
Sharp Knife
1/2”- 13/16” Open End Wrenches
Phillips Screw Driver
Needle Nose Pliers- Adjustable Pliers
Electric Drill

Drill a Hole for the Faucet in a Porcelain Sink

Note: Some sinks are predrilled with 1 ½" or 1 ¼" diameter hole that you can use for your RO faucet. (If you are already using it for a sprayer or soap dispenser, see step 1).

Porcelain sinks are extremely hard and can crack or chip easily. Use extreme caution when drilling. Watts accepts no responsibility for damage resulting from the installation of faucet.

Step 1 Determine desired location for the faucet on your sink and place a piece of masking tape on location where the hole is to be drilled. Mark the center of the hole on the tape.

Step 2 Using a variable speed drill on the slowest speed, drill a 1/8" pilot hole through both porcelain and metal casing of sink at the center of the desired location. (If drill bit gets hot it may cause the porcelain to crack or chip), use lubricating oil or liquid soap to keep cool.

Step 3 Using a 1 ¼" hole saw, proceed to drill the large hole. Keep drill speed on the slowest speed and use lubricating oil or liquid soap to keep the hole saw cool during cutting.

Step 4 Make sure the surroundings of the sink are cooled before mounting the faucet to the sink after drilling. Remove all sharp edges.

Punch a Hole for the Faucet in a Stainless Steel Sink

Note: If mounting faucet to a Stainless Steel Sink you will need a 1 ¼" Hole Punch. The faucet opening should be centered between the back splash and the edge of the sink, ideally on the same side as the vertical drain pipe.

Step 5 Drill a ¼" pilot hole. Use a 1/2" Hole Punch and an adjustable wrench to punch the hole in the sink. Change to the 1 ¼" Hole Punch to enlarge the hole.
The faucet can now be installed.

WATTS Chrome (Top Mount) Faucet Installation

	Minimum	Maximum
Mounting Hole Size	1.00”	1.25”
Torque on Toggle Bolt	5lb.in. (max)	

Gather and identify the faucet pieces.

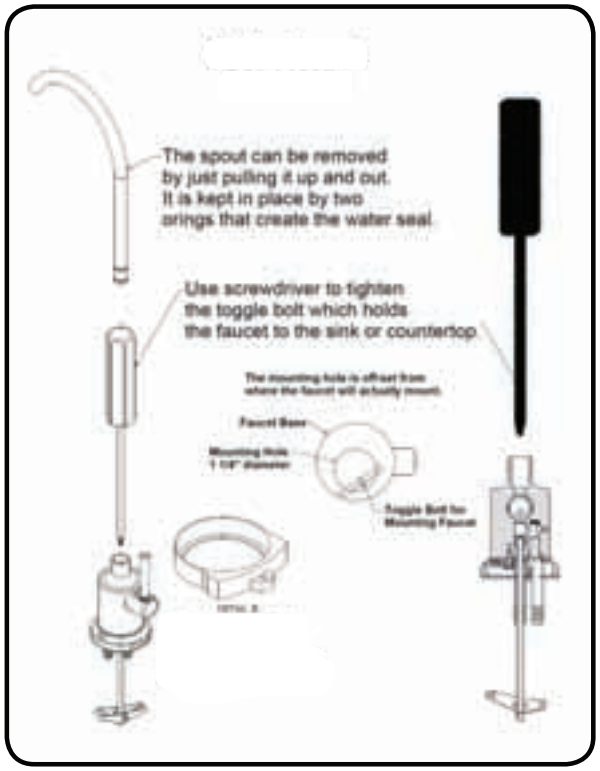
Step 6 Remove faucet base & faucet spout from their respective plastic bags. From above the sink, feed the faucet tubing & toggle bolt down through the 1¼” mounting hole in the sink. Ensure that the soft rubber gasket is uniformly positioned in between the base and the top of the sink.

Step 7 Align the faucet base so that the handle is on the right side and the base is sitting flush on the sink top. Turn the handle down (towards you) to the “ON” position to reveal the tightening screw (located where the spout will be inserted). Using a phillips head screwdriver, turn the screw clockwise until the toggle bolt secures the faucet base snug onto the sink top, do not over torque toggle bolt (5lb. in. max)

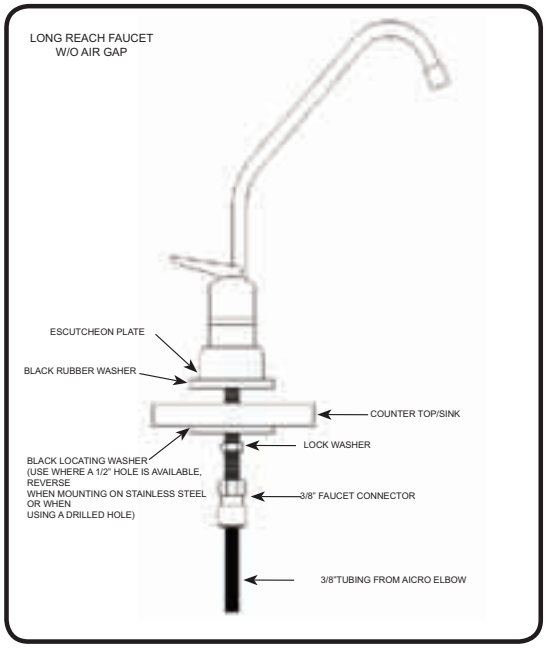
Step 8 Once the faucet base is securely fastened to the sink top, insert the faucet spout into the faucet base until it is fully seated. Turn the handle up (away from you) to the “OFF” position.

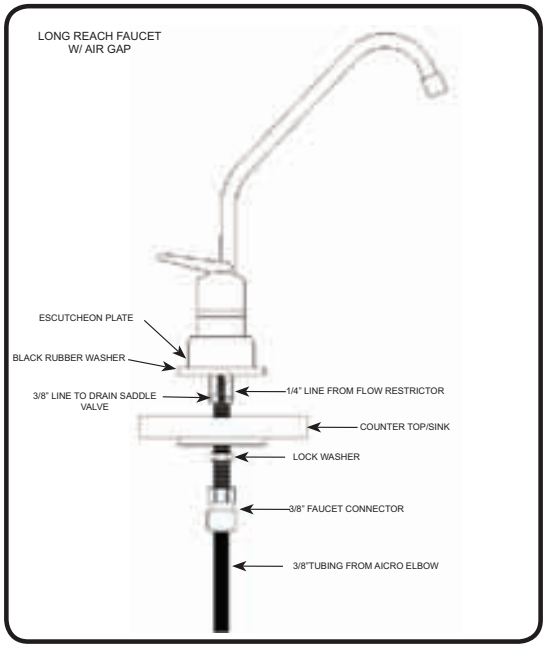
Step 9 Completion of faucet installation (tubing connections) will be done later in this manual. Refer to the ***Black Tube Connection (page 10), Red Tube Connection (page 11), and Blue Tube Connection (page 11)*** sections of this manual.

Watts Top Mount Faucet



Other Faucet Style Installation





Adapta Valve Installation

Configuration for 3/8" compression fittings

Hot Supply **Cold Supply**

Configuration for 1/2" compression fittings

Step 10 Locate the cold water supply under the sink.

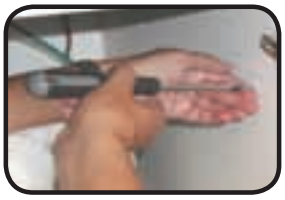
Step 11 Turn off the cold water supply to the faucet by turning the angle stop valve completely off.

Step 12 Attach feed valve as illustrated in the photo above. The white tube from inlet side of RO module will be cut to length and attached later in the installation.

Caution: Water supply line to the system must be from the cold water supply line only. Hot water will severely damage your system.

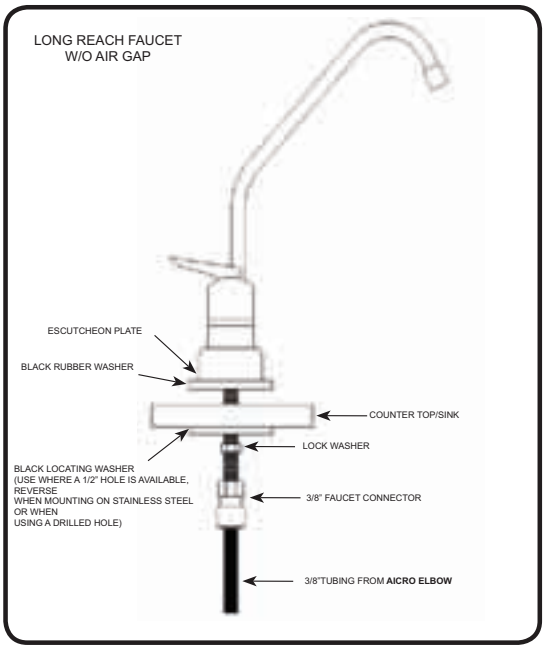
Reverse Osmosis Module Mounting

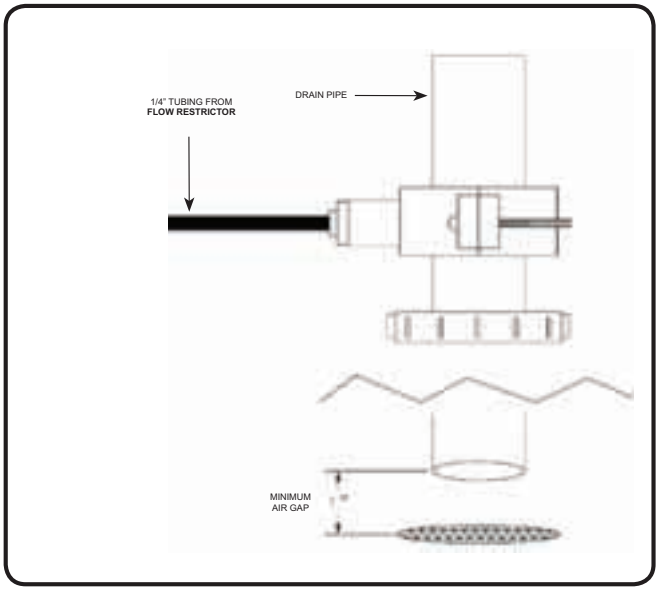
Step 13 Determine best location for the RO module to be mounted to allow for future system maintenance. The parts bag has 2 self tapping screws. Using a Phillips screwdriver, screw them into the cabinet wall 10" apart and 16" from the bottom of the cabinet.



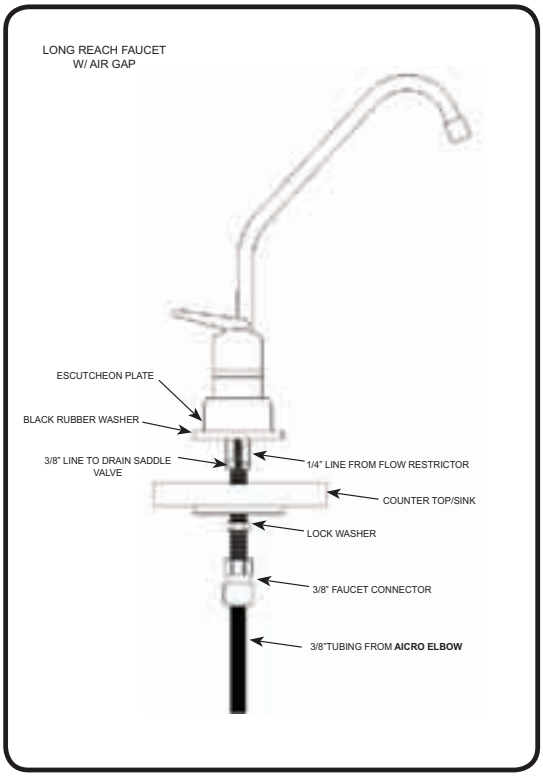
Note: <u>Do not cut any RO system tubes at this time.</u>

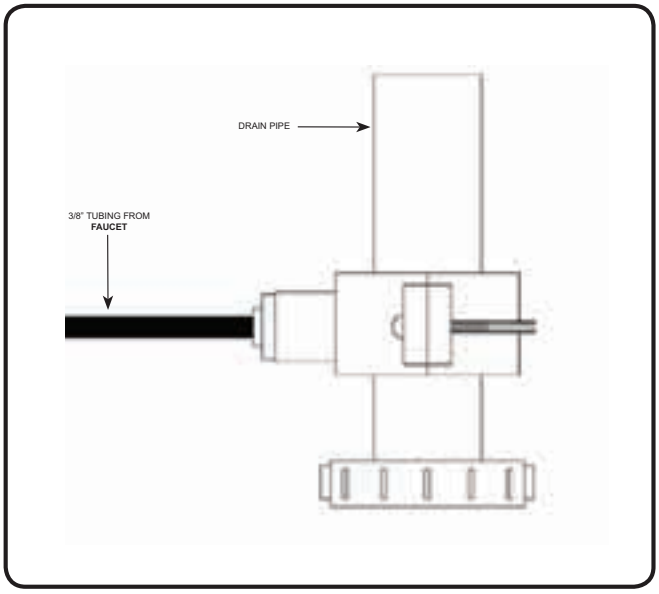
Non Air Gap Faucet Installation





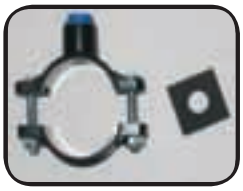
Air Gap Faucet Installation





Drain Saddle Installation

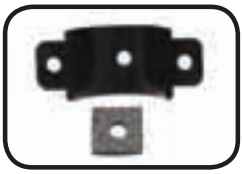
Drain Saddle fits standard 1 ¼" – 1 ½" drain pipes

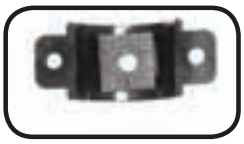


Caution: If you have a garbage disposal, do not install the drain line near it. Installation of the drain line must be either above the disposal, or if a second sink drain is available, install it above the cross bar on the second sink. Installation of the drain line near a garbage disposal may cause the drain line to plug.

Step 14 Gather the pieces of the drain saddle

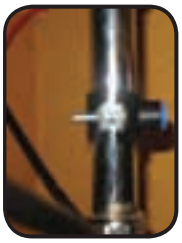
- 2 Screws
- 2 Nuts for screws
- 1 Semi bracket with opening
- 1 Foam washer
- 1 Semicircle bracket





Step 15 The small square black foam gasket with a circle cut out of the middle must be applied to the inside of the drain saddle. Remove sticky tape backing and stick to the drain saddle as shown.

Step 16 Drill a ¼" hole through the drain pipe at least 1 1/2" above the nut of the P-trap to allow for the removal of the P-trap if necessary. Assemble the drain saddle around the drain pipe. Position the drain saddle over the drilled hole in pipe. Insert screw driver into the opening of the drain saddle and align with drilled hole in drain pipe. Using Phillips screw driver tighten screws evenly and securely on both sides of the drain saddle. The black tubing will be installed later.



Caution: Do not over tighten the screws. It may crack the drain saddle.

Tank Valve Installation - (Metal Tanks)

Step 17 Wrap 3 to 4 turns of Teflon tape clockwise around the male pipe threads coming out of the top of the tank.

****Note: Do not let the tape cover the opening in the fitting.***

Step 18 Thread the plastic valve onto the tank fitting. ***Do not over tighten or the valve could crack.***

Tank Valve Installation - (Plastics Tanks)

Step 17 Make sure the O-Ring is located at the bottom of recess for the tank connection.

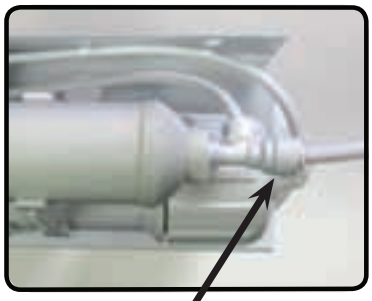
Step 18 Thread the plastic valve onto the tank fitting. ***Do not over tighten or the valve could crack.***

White Tube Connection

Connect White Tube from TANK Port on RO Module to the Tank

Step 19 Position tank in desired location. Stand it upright or lay it on its side (using the black plastic stand). Measure the white tube from tee fitting to TANK and cut it to desired length.

Step 20 Insert the white 3/8” tube into the 3/8” opening on the tank valve and port onto the Tee fitting.



TANK CONNECTION

Connect White Tube from Feed Valve to IN Port on RO module

Step 21 Insert the white tube into the 1/4” opening on the feed valve until it stops.

Step 22 Run the tube to the inlet onto the RO system. Leave enough tube so it is not kinked and cut the tube to desired length.

White Tube Inlet

Feed Valve

Cold Supply

3/8” Black Tube Connection from Faucet

Note: ***The tubing must be as SHORT and STRAIGHT as possible to the drain saddle, making a downward slope from faucet to drain saddle to allow for proper drainage.***

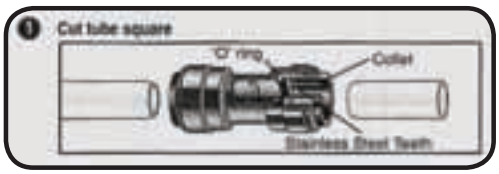
Step 23 Measure the black tube from faucet to the black drain saddle and make a straight cut through tube.

Step 24 Insert black tubing into the quick connect port. Make sure tubing is pushed all the way in.

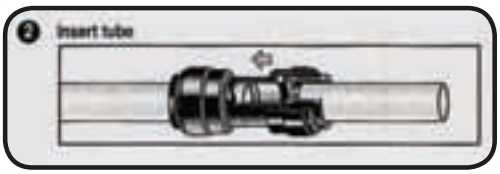
Note: ***This is a gravity feed line, if there is any bend or dip in the tube the rinse water will not flow into the drain properly. Water may back up and come out of the air gap hole in the back of the faucet base.***

How To Use the Quick Connect Fittings on the RO Module

To make a connection, the tube is simply pushed into the fitting.

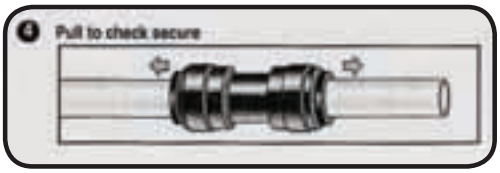


It is essential that the outside diameter be free of score marks and that burrs and sharp edges be removed before inserting into fitting.



Fitting grips before it seals. Ensure tube is pushed into the tube stop.

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.

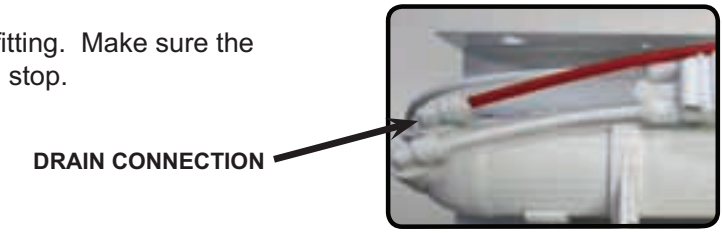


Pull on the tube to check that it is secure. It is a good practice to test the system prior to leaving site and /or before use.

To disconnect, ensure the system is depressurized before removing the tube. Push in collect squarely against face of fitting. With the collet held in this position, the tube can be removed. The fitting can then be reused.

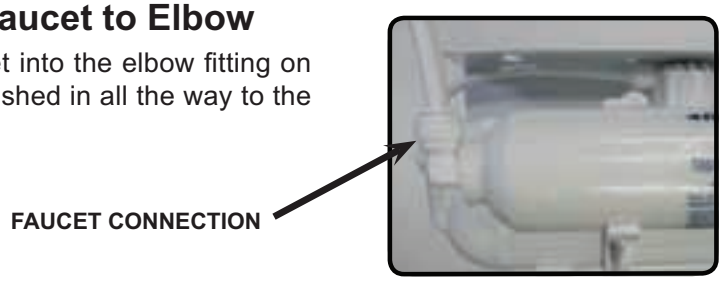
Connect the Red Tube To Drain

Step 25 Insert red tubing into the flow restrictor fitting. Make sure the tube is pushed in all the way to the tube stop.



Connect the Blue Tube from the Faucet to Elbow

Step 26 Insert the blue 3/8" tube from the faucet into the elbow fitting on the post filter. Make sure the tube is pushed in all the way to the tube stop.



Install the Cartridges

Step 27 Identify each cartridge and the proper location on the system by matching the description.

Step 28 Insert each cartridge into the housing.

Step 29 Make sure each housing is free of leaks use filter wrench to tighten.

Start up Instructions

Step 1 Turn on the incoming cold water at the angle stop valve. Open the feed valve 1/4 turn. Check the system for leaks and tighten any fitting as necessary. (Check frequently over the next 24 hours to ensure no leaks are present).

Step 2 If system is connected to an ice maker, turn the ice maker off (or do not allow water to flow to the ice maker) until Step 5 "flushing" is complete and the tank has been allowed to completely fill. Connection from the RO to the ice maker system should have an in-line valve installed before the ice maker so it can easily be closed to prevent water flowing to the ice maker during start up and periodic maintenance. Your RO tank must be allowed to fill up in order for the ice maker system to work properly. (If you are installing an ice maker kit from Watts, tee off of the blue line between RO system and faucet).

Step 3 Open the RO faucet and leave it open until water begins to trickle out, (it will come out slowly).

Step 4 After water trickles out of the faucet, close the faucet so the tank will fill with water. The tank will take 3 to 5 hours to fill completely depending on the production capability of the membrane, local water temperature and pressure.

Step 5 After the Tank has filled, open the faucet to flush the tank completely to remove carbon particles from final filter. Repeat this step two more times. The fourth tank can be used for drinking. ***Note: The flushing of the tank 3 times is only necessary during initial installation. This should take about a day to complete.***

NOTE: This reverse osmosis system contains replaceable components critical to the efficiency of the system. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance. Periodic inspection and following proper system maintenance is critical for continued performance.

Annual Maintenance

To change filters and membranes follow these procedures:

1. Close feed water valve by turning it clockwise.
2. Open faucet to allow holding tank to drain.
3. Loosen and remove filter housings using wrench provided and discard cartridges and or membrane.
4. Wash the inside of the housings using mild detergent and soft cloth. Thoroughly rinse all soap before reassembly.
5. Replace filter cartridges and membrane before sanitizing system.

Note: The sediment cartridge, and pre carbon cartridge should be changed every six months.

The RO membrane cartridge should be changed every one or two years.

The post carbon cartridge should be changed once a year.

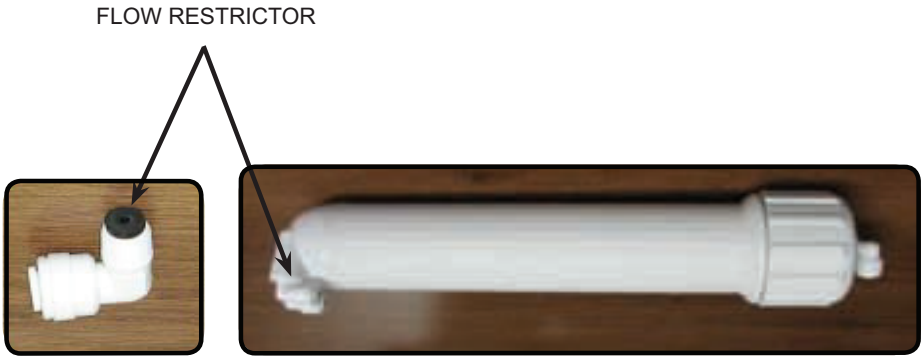
Sanitizing Instructions

Storage Tank Sanitization

Step 1 Turn off the incoming water supply at the feed valve.
Step 2 Open the faucet, allow the tank to empty, and then close the faucet.
Step 3 Remove the tubing between the tank and the RO unit.
Step 4 Drain the water from the tubing and pour one teaspoon of household bleach into the tubing.
Step 5 Reinstall the tubing between the tank and the RO unit.
Step 6 Turn on the water supply at the feed valve.
Step 7 Allow the RO unit to fill the tank overnight.
Step 8 Open the faucet and allow the tank to empty, and then close the faucet.
Step 9 Replace the post carbon filter cartridge.

Drain line Flow Restrictor

Step 1 Turn off the incoming water supply at the feed valve.
Step 2 Remove the red tubing from the fitting.
Step 3 Remove fitting from housing and inspect the orifice in the flow restrictor. Clean if necessary.
Step 4 Reinstall the flow restrictor into fitting.
Step 5 Reinstall fitting into the housing.
Step 6 Reinstall the red tubing into the fitting.
Step 7 Turn on the water supply at the feed valve.



Tank air pressure

Step 1 Turn off the incoming water supply at the feed valve.
Step 2 Open the faucet, allow the tank to empty, and then close the faucet
Step 3 Check the pressure in the tank using a tire pressure gauge on the air valve.
Step 4 The tank pressure should be between 5-7 psi. Use a bicycle pump to add air if necessary.
Step 5 Turn on the water supply at the valve.

Procedure for Extended Non-Use

If the system will not be used for an extended period (more than 2 months) perform the following.

Step 1 Turn off the incoming water supply at the feed valve.
Step 2 Open the faucet, allow the tank to empty, and then close the faucet.
Step 3 Remove and discard the sediment filter, pre carbon filter, and post carbon filter cartridges.
Step 4 Remove the RO membrane cartridge. Place it in a zip lock bag and store it in the refrigerator.
Step 5 To begin using the unit again, follow the startup and tank sanitization procedures.

TROUBLE SHOOTING

Problem	Cause	Solution
1. Low/Slow Production	Low Water Pressure	Assure a minimum of 40 psi incoming water pressure. Watts sells a booster pump if home water pressure is low. Make sure water supply is turned on and Feed Valve is all the way open.
	Crimps in tubing	Check tubing and straighten or replace as necessary.
	Clogged pre-filters	Replace pre-filters.
	Fouled membrane	Replace membrane and clean flow restrictor.
	Tank valve closed	Open valve on storage tank
2. Milky colored Water	Air in system	Air in the system is a normal occurrence with initial start up of the RO system. This milky look will disappear during normal use within 1-2 weeks. If condition reoccurs after filter change, drain tank 1 to 2 times.
3. Water constantly running/unit will not shut off	Low water pressure	See #1 Above
	Fouled membrane	Replace membrane
	High water pressure	Check incoming water pressure to make sure it does not exceed 100psi. A pressure relief valve may be necessary.
	High air pressure in tank	Empty storage tank of water. Set tank air pressure to 5 psi. See Page 15.
4. Noise from faucet or drain	Air gap faucet	Inherent sound with air-gap faucets.
	Location of drain saddle	See diagram for proper location of drain saddle.
	Higher capacity membrane	Normal with high capacity membrane
	High water pressure	Check incoming water pressure to make sure it does not exceed 100psi. A presser relief valve may be necessary.
5. Faucet leaks from the air gap feature	Crimp or loop in drain line	Straighten black 3/8 drain tube. Cut off any excess tubing
	Drain tube clogged/restricted	Caused from dishwasher or garbage disposal. Disconnect the 3/8” black tube at the drain, clean the 3/8” black tube out with a wire, then reconnect.
6. Small amount of water in storage tank	System just starting up	Normally it takes 6-10 hours to fill tank. Note: Low pressure and/or temperature can drastically reduce production rate.
	Low water pressure	See #1 Above
	Too much air in tank	Add air if below 5 psi and bleed if above 5 psi. Check only when tank is empty of water. See Page 15.
7. Water leaks from the filter housing	Not properly tightened.	Tighten the bowl
	Missing or kinked O-ring	Turn off the water supply. Release the pressure, remove bowl and replace the O-ring. Make sure the O-ring is seated in the filter bowl properly before reinstalling the filter bowl.

Service Record

Serial No. _____

Date of Purchase:_____ Date of Install:_____ Installed by:_____

Date	1st stage Sediment (6 months)	2nd stage Carbon (6 months)	3rd stage Carbon (6 months)	4th stage Membrane (2-5 years)	

NOTES:

Limited Warranty

This Reverse Osmosis System is warranted against defects in material and workmanship for a period of one year from the date of installation, not to exceed 2 years from the date of manufacture. Expendable items such as filter cartridges and membranes are not covered by this warranty.

How to obtain Warranty Service: Contact the dealer that you purchased the system from. Watts will work in conjunction with our dealer to repair or replace at our discretion any unit that is determined to be defective. No returns will be accepted with out the proper return authorization number.

What this warranty does not cover: This warranty does not cover defects resulting from improper installation, from abuse, misuse, misapplication, improper maintenance, neglect, alteration, accidents, casualties, fire, flood, freezing, environmental factors, water pressure spikes or other such acts of God.
Return shipping charges are not included in this warranty and are the responsibility of the end user.

This warranty will be void if defects occur due to failure to observe the following conditions:
1. The Reverse Osmosis System must be hooked up to a potable municipal or well cold water supply.
2. The hardness of the water should not exceed 10 grains per gallon, or 170 ppm.
3. Maximum incoming iron must be less than 0.2 ppm.
4. The pH of the water must not be lower than 2 or higher than 11
5. The incoming water pressure must be between 40 and 100 pounds per square inch.
6. Incoming water to the RO cannot exceed 105 degrees F (40 degrees C.)
7. Incoming TDS/Total Dissolved Solids not to exceed 1800 ppm.
8. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

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

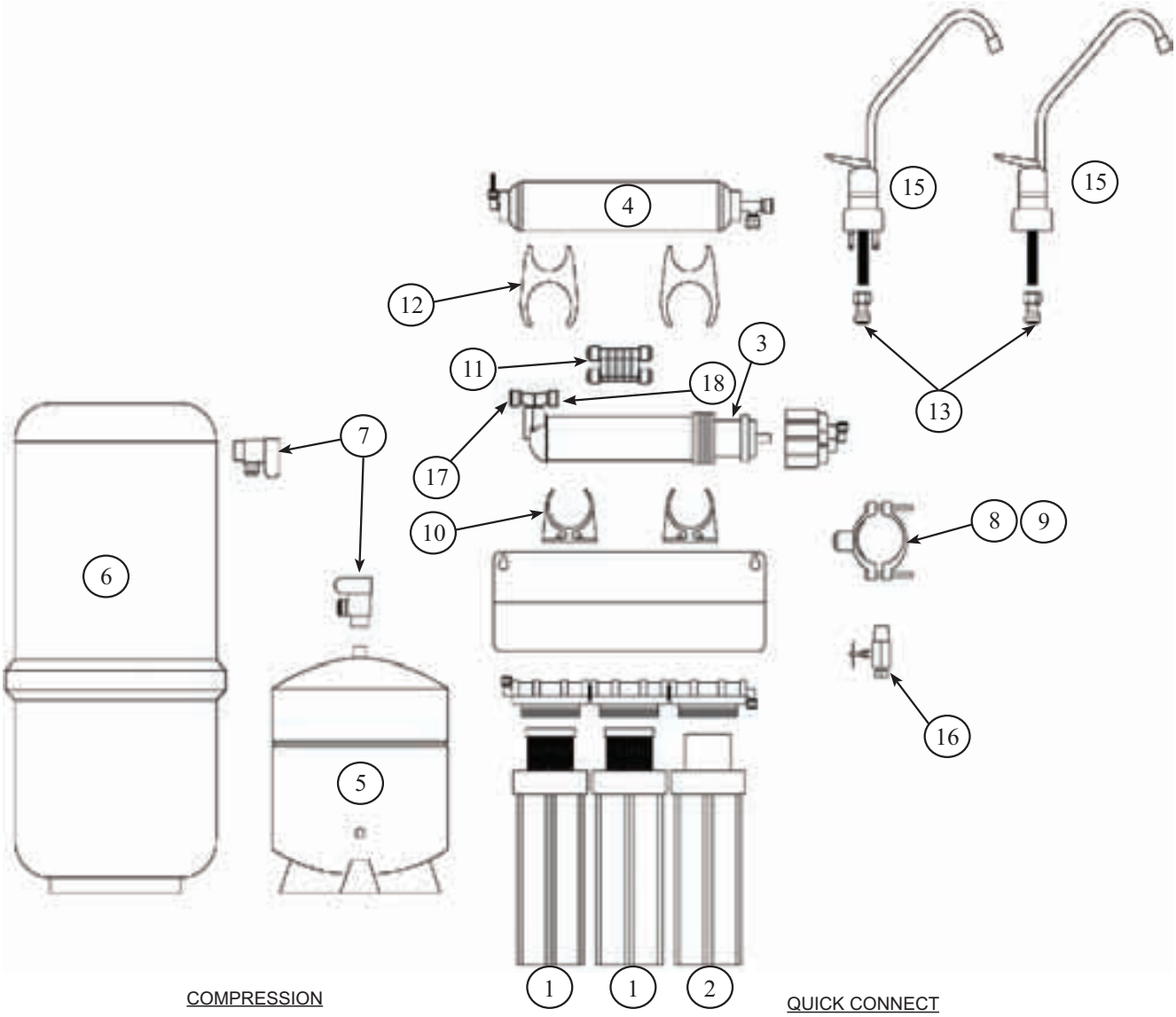
This warranty does not cover any equipment that is installed or used outside the United States of America and Canada.

LIMITATIONS AND EXCLUSIONS:

WATTS WILL NOT BE RESPONSIBLE FOR ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. WATTS WILL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WATER DAMAGE, TRAVEL EXPENSE, TELEPHONE CHARGES, LOSS OF REVENUE, LOSS OF TIME, INCONVENIENCE, LOSS OF USE OF THE EQUIPMENT, AND DAMAGE CAUSED BY THIS EQUIPMENT AND ITS FAILURE TO FUNCTION PROPERLY. THIS WARRANTY SETS FORTH ALL OF WATTS RESPONSIBILITIES REGARDING THIS EQUIPMENT.

OTHER CONDITIONS:

If Watts chooses to replace the equipment, it may be replace with reconditioned equipment. Parts used in repairing or replacing the equipment will be warranted for 90 days from the date the equipment is returned to you or for the remainder of the original warranty period, whichever is longer. This warranty is not assignable or transferable.



COMPRESSION

ITEM	QTY	PART NO.	DESCRIPTION
1	2	WCBCS975	CART CARBON BLOCK 2.5"X9.75" 5M
2	1	FPMB5-978	CART FLOW-PRO MELT BLOWN 5M 9-7/8"
3	1	W-1812-50	ROM WATTS BRAND MEMBRANE 50 GPD
4	1	AICRO	CART CAPSUL 2"X10" .25 FNPT T&O COCONUT
5	1	FRO-132-WH	4 GALLON WHITE STEEL TANK
6	1	ROPRO4-W	RO ROPRO STORAGE TANK, WHITE PLASTIC
7	1	F1053-0604	VALVE RIGHT ANGLE 3/8" X 1/4" FPT
8	1	WE-CU138B-Q	DRAIN SADDLE 3/8" QC
9	1	WE-CU114B-Q	DRAIN SADDLE 1/4" QC
10	2	WE-CL2500W	CLIP MEMBRANE
11	1	S3000W	RO AUTOMATIC SHUTOFF VALVE 1/4" JACO/WHITE
12	2	WE-CLD2500W	CLIP DOUBLE
13	1	CI3212U7S	FCT 3/8" X 7/16" UNS FAUCET CONNECTOR
14	1	FU-AGLR.C/3	AIR GAP CHROME LONG REACH FAUCET
15	1	FU-WDF-103-3NSF	NON AIR GAP CHROME LONG REACH FAUCET
16	1	F134007	RO ADAPTA-VALVE
17	1	FR-150-256JF	RO FLOW RESTRICTOR 150 GPD JACO
18	1	C256JF	FTG CHECK VALVE JACO ELBOW

QUICK CONNECT

ITEM	QTY	PART NO.	DESCRIPTION
1	2	WCBCS975	CART CARBON BLOCK 2.5"X9.75" 5M
2	1	FPMB5-978	CART FLOW-PRO MELT BLOWN 5M 9-7/8"
3	1	W-1812-50	ROM WATTS BRAND MEMBRANE 50 GPD
4	1	AICRO	CART CAPSUL 2"X10" .25 FNPT T&O COCONUT
5	1	FRO-132-WH	4 GALLON WHITE STEEL TANK
6	1	ROPRO4-W	RO ROPRO STORAGE TANK, WHITE PLASTIC
7	1	F1053-0604	VALVE RIGHT ANGLE 3/8" X 1/4" FPT
8	1	WE-CU138B-Q	DRAIN SADDLE 3/8" QC
9	1	WE-CU114B-Q	DRAIN SADDLE 1/4" QC
10	2	WE-CL2500W	CLIP MEMBRANE
11	1	S3001W	RO AUTOMATIC SHUTOFF VALVE 1/4" QC WHITE
12	2	WE-CLD2500W	CLIP DOUBLE
13	1	CI3212U7S	FCT 3/8" X 7/16" UNS FAUCET CONNECTOR
14	1	FU-AGLR.C/3	AIR GAP CHROME LONG REACH FAUCET
15	1	FU-WDF-103-3NSF	NON AIR GAP CHROME LONG REACH FAUCET
16	1	F134007	RO ADAPTA-VALVE
17	1	FR-150-220JGW	RO - FLOW RESTRICTOR 150 GPD JG
18	1	WE-CV3142-Q	VALVE CHECK ELBOW 1/4"TUBE X 1/8"THRD

**** PARTS SHOWN ARE SUBJECT TO CHANGE***

Arsenic Fact Sheet

Arsenic (As) is a naturally occurring contaminant found in many ground waters. Arsenic in water has no color, taste or odor. It must be measured by an arsenic test kit or lab test.

Public water utilities must have their water tested for arsenic. You can obtain the results from your water utility contained with in your consumer confidence report. If you have your own well, you will need to have the water evaluated. The local health department or the state environmental health agency can provide a list of test kits or certified labs.

There are two forms of arsenic: pentavalent arsenic (also called As (V), As (+5)) and trivalent arsenic (also called As (III), As (+3)). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Although both forms of arsenic are potentially hazardous to your health, trivalent arsenic is considered more harmful than pentavalent arsenic.

RO systems are very effective at removing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramine) where it does convert trivalent arsenic to pentavalent arsenic, may not convert all the trivalent arsenic in to pentavalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system.

This Watts Water Quality reverse osmosis system is designed to remove up to 98% of pentavalent arsenic. It will not convert trivalent arsenic to pentavalent arsenic. Under laboratory standard testing conditions, this system reduced 0.30 mg/L (ppm) pentavalent arsenic to under 0.010 mg/L (ppm) (the USEPA standard for drinking water). Actual performance of the system may vary depending on specific water quality conditions at the consumer's installation. In addition to the independent laboratory standard testing conditions Watts Water Quality has conducted additional field testing on our reverse osmosis units to determine trivalent arsenic reduction capabilities. Based upon Watts Water Quality field testing, it has been determined that the RO units are capable of reducing up to 67% of trivalent arsenic from the drinking water.

The RO membrane component of this Watts Water Quality reverse osmosis system must be maintained according to its recommended maintenance cycle. Specific component identification and ordering information can be found in the installation/operation manual maintenance section, by phone at 1-800-659-8400 or online www.watts.com