



INSTALLATION, OPERATION AND MAINTENANCE MANUAL

MODEL: Filter-Pure UF3

Hollow Fiber Technology



System Tested and certified by WQA against NSF/ANSI Standards 42 and 53 for the reduction of the claims specified on the performance Data sheet.

Please read carefully before proceeding with installation. Your failure to follow any attached instructions or operating parameters may lead to the product's failure.

Refer to enclosed warranty for operating parameters to ensure proper use with your water supply.

Watts Premier, Inc.
Phone: 800-752-5582
Part # 199494

8716 W Ludlow Drive Suite #1
www.wattspremier.com

Peoria, AZ 85381
Fax: 623-866-5666
Manual Date: 04/16/2012

Thank you for your purchase of a state of the art Watts Premier Water Treatment system.

Your new Filter-Pure UF3 system is equipped with a unique swivel valve in head push button assembly. This allows for a simple and sanitary push button filter change that does not require you to turn off the water source to the filtration system.

This three stage system is equipped with a sediment prefilter, a high quality carbon block filter and the Ultra Filtration membrane.

The sediment filter reduces sand, silt, sediment and rust particles that may be in your water. The second stage is a heavy duty lead and volatile organic chemical reducing carbon filter block. This specially formulated block is capable of reducing lead as well as harmful Volatile Organic Chemicals (See performance data sheet for complete list of VOC's). It is estimated that VOC's are present in one-fifth of the nation's water supplies. These water contaminants can enter ground water from a variety of sources including localized use of herbicides and pesticides, gasoline or oil spills, leaking underground fuel tanks, septic system cleaners, and chemicals used in the dry-cleaning industry. The third stage is our state of the art UF Hollow Fiber Technology membrane.

Ultra filtration is a membrane filtration process which uses standard home water pressure to push water through its semi permeable membrane. Suspended particles and materials of high molecular weight are unable to pass through the 0.02 micron UF membrane, allowing only fresher cleaner water and dissolved minerals to pass through. Historically this separation process has been used in large municipal water treatment plants and hospitals; however through advances in technology it is now available to you as a powerful under sink water filtration plant in your home.

Ultra filtration is capable of running at low water pressures, does not require a separate water holding tank, does not alter the pH of your water and does not require electricity. Due to this the Filter Pure UF 3 provides a continuous supply of premium quality drinking water directly to your tap.

System Maintenance

Just because you can not taste it, does not mean that it is not there. Many contaminants in the drinking water 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 your filters at the recommended intervals as indicated in this system manual.

When replacing any of the filter elements, pay special attention to any cleaning instructions. Should you have any further questions please refer to our web site at www.wattspremier.com or call our customer service department at 1-800-752-5582.

Table of Contents

Service Record	3
Operational Parameters	4
Contents of Reverse Osmosis System.....	4
Tools Recommended For Installation	4
Plumbing diagram and parts list	4
Drill a Hole for the Reverse Osmosis Faucet	5
How to use Quick Connect Fittings on Your RO System	5
Faucet Installation	6
Blue Tube Connection	6
Adapt-a-Valve Installation	7
Green Tube Connection	7
Mounting System Under Sink	8
Start-up Instructions	8
Changing The Filter Cartridges	9
Performance Data Sheet	10-11
Other Products from Watts Premier	12
Warranty Registration	13-14
Limited Warranty	15

Service Record

Model Number: _____ Serial Number: _____

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

Date	Sediment Filter (6 Months)	LCV Block (6 Months)	UF Membrane (12 Months)	Date	Sediment Filter (6 Months)	LCV Block (6 Months)	UF Membrane (12 Months)

Operational Parameters

Installation must comply with state and local plumbing regulations.

Water supply line to the system must be from the cold water supply line.

Operating Temperatures:	Maximum 100°F (37.8°C)	Minimum 40°F (4.4°C)
Operating Pressure:	Maximum 85 psi (6.0 kg/cm ²)	Minimum 20 psi (1.406 kg/cm ²)
pH Parameters:	Maximum 10	Minimum 5
Flow Rate:	0.5 GPM @ 60 psi	

Contents of Under Counter System

- ✓ 1 Filter-Pure UF3 Unit
- ✓ 3 Filters - Attached
- ✓ 1 Parts Bag
- ✓ 1 Faucet Assembly

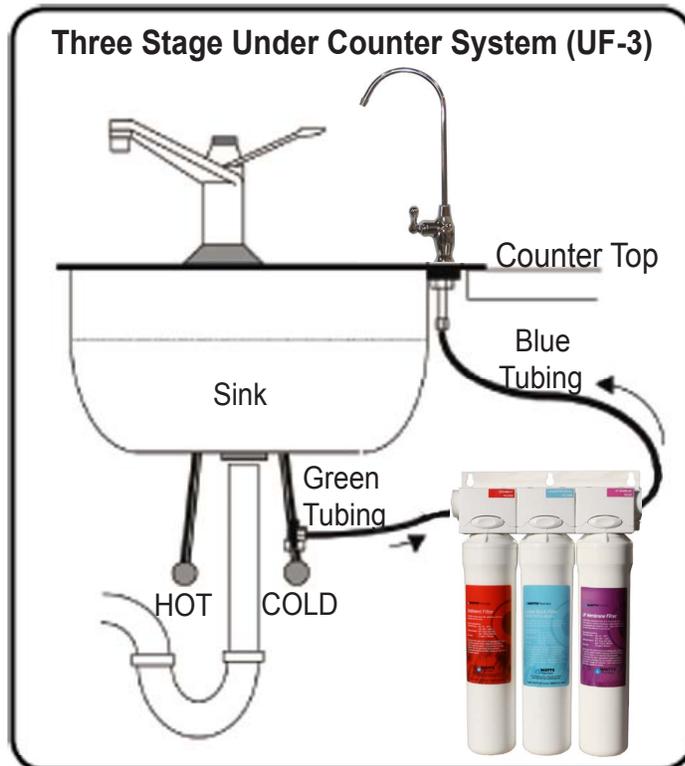
If any of the items are missing, please contact Watts Premier prior to installing.

Tools Recommended For Installation

- ✓ 1/2 Diamond Tipped Hole Saw bit for faucet opening
- ✓ Phillips bit for electric drill
- ✓ 1/2" Open End Wrench
- ✓ 1/8" diamond tip bit, pilot hole
- ✓ Sharp Knife
- ✓ Electric Drill
- ✓ Phillips Screw Driver



Part Number List



Item #	Part #	Description
1	115303	HEAD-PNP-3 STAGE W-/ASOV
2	125089	FITTING-ELBOW-90-QC-1/4TX1/4I
3	560070	ADAPTA VALVE
4	116113	FAUCET-LK-NAG-BS
5	610109	GREEN TUBING
6	610113	BLUE TUBING
7	105311	SEDIMENT FILTER
8	105371	LVOC CB FILTER
9	105321	UF FILTER
10	199494	MANUAL-FILTER PURE UF3
11	146001	SCREW-#10 PHIL PANHEAD
12	131017	INSERT-BR-1/4"
13	131012	SLEEVE-DELTRIN -1/4"
14	131002	NUT-BR-1/4"C

Drill a Hole for the Faucet

Marble Counter-top

We recommend contacting a qualified contractor for drilling a hole in a marble counter-top.

Counter Top / Porcelain & Stainless Steel Sink

Note: Most sinks are pre drilled with 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)

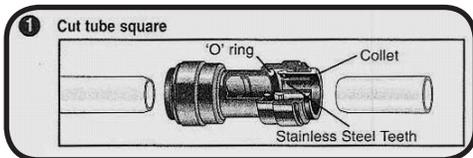
Porcelain sinks are extremely hard and can crack or chip easily. Use extreme caution when drilling. Watts accepts no responsibility for damage resulting from the installation of faucet. Diamond tip bit recommended.

- Step 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.
- Step 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).
- Step 3 Using a 1/2” diamond tip hole saw, proceed to drill the 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 After drilling, remove all sharp edges and make sure the surroundings of the sink are cooled before mounting the faucet.

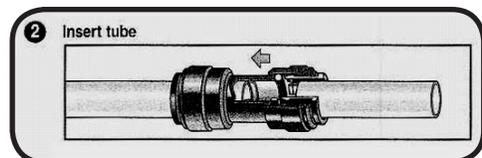


How to use the Quick Connect Fittings

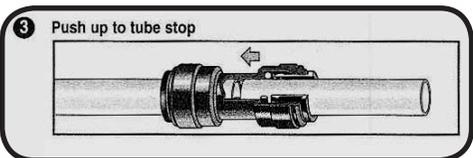
To make a connection, the tube is simply pushed into the fitting. The unique locking system holds the tube firmly in place without deforming it or restricting flow. Use the steps below in reference to any quick connect tube connections.



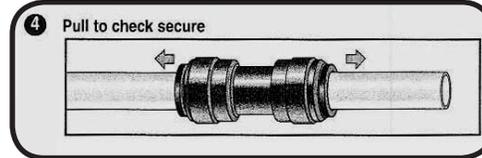
It is essential that the outside diameter be free of score marks and that burrs and sharp edges be removed before inserting into fitting.



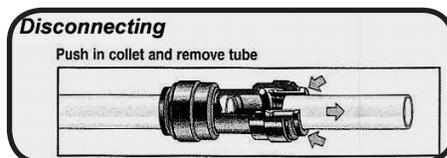
Fitting grips before it seals. Ensure tube is pushed into the tube stop.



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.



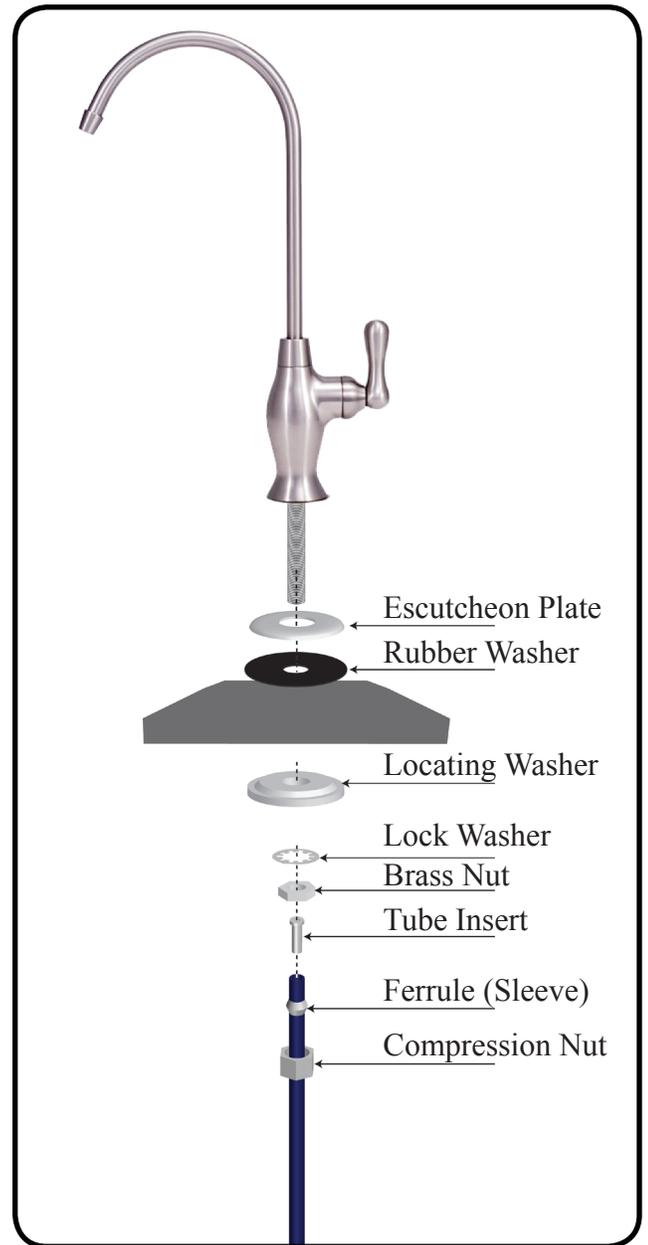
Pull on the tube to check that it is secure. It is a good practice to test the system prior to leaving site and /or before use.



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

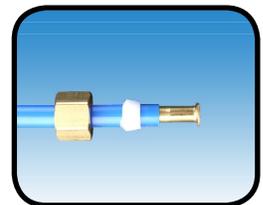
Faucet Installation

- Step 5 Place the escutcheon chrome plate and the black rubber washer on the faucet shank. (Parts found in faucet parts bag).
- Step 6 Insert the faucet shank through the hole in sink and let it rest on the sink top.
- Step 7 From the underside of the sink, slide on the locating washer, lock washer and brass nut onto the shank. Check orientation of faucet then tighten brass nut securely.



Blue Tube Connection

- Step 8 Locate blue tube in the Filter-Pure Box. To assemble, place the brass nut on the tube first, then the sleeve (small tapered end of sleeve must point to the end of tube) and then insert the plastic insert all the way into the end of the tube. (See Picture)
- Step 9 Insert the assembled blue tube into the end of the faucet shank until it stops. Slide brass nut and plastic sleeve down until you can thread nut onto the faucet shank. Use a wrench to securely tighten the brass nut.
- Step 10 Attach the open end of the blue tube into the right side of the system by pushing it into the quick connect elbow fitting (above Purple UF Membrane filter).



Adapt-a-Valve Installation

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

Verify contents prior to installation:

- (1) - Plastic Adapt-a-Valve with black collet
- (1) - Brass Adapter no washer
- (1) - Brass Adapter with black washer
- (1) - White rubber washer



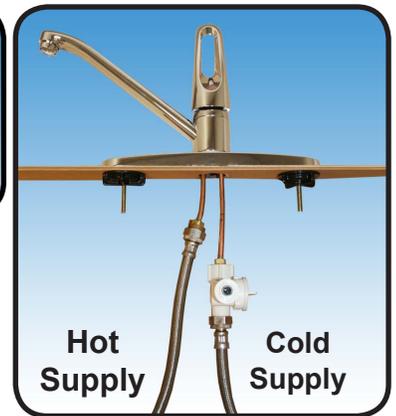
3/8" Configuration
(With Brass Fittings)
* Insert White Washer



Hot Supply Cold Supply



1/2" Configuration
(Without Brass Fittings)



Hot Supply Cold Supply

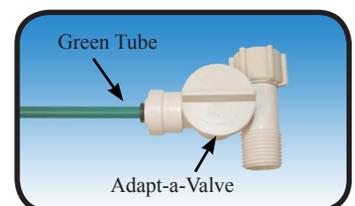
WARNING: Do not use Teflon tape with the Adapt-a-Valve.

- Step 11 Turn off the cold water supply to the faucet by turning the angle stop valve completely off. Open cold water sink faucet to relieve pressure.
- Step 12 Choosing the configuration that fits your plumbing, attach the adapt-a-valve as illustrated in the four photos above.

TIPS: Make sure that the black collet is installed in to the 1/4" opening on the Adapt-a-valve.
Don't forget to install the white compression washer with the 3/8" configuration.
Brass adapter (A) does not need to be tightened with a wrench, only finger tight.

Green Tube Connection - Feed Water

- Step 13 Locate the 1/4" Green tube in the Filter-Pure Box.. Connect one end of the green tube to the RO Module open elbow on the left side of the unit. Insert the open end of the green 1/4" tube into the open 1/4" quick connect fitting on the plastic water feed valve making sure the tube is pushed in all the way to the tube stop.



Mounting System Under Sink

Step 14 Locate an area best fitted for mounting the system. Allow approximately 2” (5cm) clearance between the bottom of the filter housing and the floor of the sink cabinet.



Step 15 Using the mounting holes on the bracket, mark the location for the mounting screws on the cabinet wall under the sink.

Step 16 Screw the (2) self tapping screws into the wall at the marked location. Hang the module on the screws using the mounting holes in the bracket.

Congratulations!

You have completed the installation of new your Reverse Osmosis system.

Please Follow the Startup Instructions.

Start up Instructions

Step 1 Turn on water supply at angle stop and open the Adapt-a-Valve. Turn faucet handle to the open position to start the flow of water through the unit. Run 3 gallons of water through the unit in order to flush out the normal black carbon fines (it will “sputter” until the air is purged out) from the unit. Initially, the water may appear cloudy which is due to tiny air bubbles and it will clear up shortly. Close the faucet when finished.



Step 2 Check for leaks. If you have any leaks, shut off the water supply to your system, tighten any fittings / housings and restart unit.

(Check frequently over the next 24 hours to ensure no leaks are present)

Changing The Filter Cartridges

Your system is equipped with valved heads which will automatically turn off the water supply to each filter when the filter is released, thus you do not need to turn off the incoming water supply at the Adapt-a-Valve. The faucet must be off when filters are replaced. To make the removal of the filter cartridges easier, the heads & cartridges may be swiveled up to 90 degrees as shown in the pictures below.

6 Month System Maintenance

Replace: √ One sediment filter (Red Label P/N: 105311)
 √ One LVOC Block (Blue Label P/N: 105371)



Annual System Maintenance

Replace: √ One sediment filter (Red Label P/N: 105311)
 √ One LVOC Block (Blue Label P/N: 105371)
 √ One UF Membrane (Purple Label P/N: 105321)



Step 1 Place a towel under the filter module to catch any excess water that may drip out from the filters during the changeover.

Step 2 **To remove a filter cartridge:** Push & hold the button on the valved head above the filter. Pull cartridge downward (from the head) to remove. Release button and discard old filter.



Step 3 **To install a filter cartridge:** Remove the seal cap and insert the cartridge into the valved head until you hear an audible “click” (the button does not need to be pressed to install new filters).



Note: *If the new filter cartridge won't snap in easily or pops off it may be due to high incoming water pressure. Relieve pressure to the system by turning off the water supply using the adapt-a-valve and then install the cartridge. Once the cartridge is seated, turn the water supply back on to your unit.*

Substance	Percent Reduction	Influent Challenge Concentration (mg/L unless noted)	Maximum Permissible Product Water Concentration
ENTAMOEBA (See CYST)	99.99%	minimum 50,000/mL	99.95%
ETHYLBENZENE*	>99%	0.088	0.001
ETHYLENE DIBROMIDE (EDB)*	>99%	0.044	0.00002
FURADAN (see CARBOFURAN)*	>99%	0.19	0.001
HALOACETONITRILES (HAN)*			
BROMOCHLOROACETONITRILE	98%	0.022	0.0005
DIBROMOACETONITRILE	98%	0.024	0.0006
DICHLOROACETONITRILE	98%	0.0096	0.0002
TRICHLOROACETONITRILE	98%	0.015	0.0003
HALOKETONES (HK):*			
1,1-DICHLORO-2-PROPANONE	99%	0.0072	0.0001
1,1,1-TRICHLORO-2-PROPANONE	96%	0.0082	0.0003
GIARDIA LAMBLIA (see Cyst)	99.99%	minimum 50,000/mL	99.95%
HEPTACHLOR*	>99%	0.25	0.00001
HEPTACHLOR EPOXIDE*	98%	0.0107	0.0002
HEXACHLOROBUTADIENE (Perchlorobutadiene)*	>98%	0.044	0.001
HEXACHLOROCYCLOPENTADIENE*	>99%	0.060	0.000002
LEAD pH 6.5	96%	0.15 +/- 10%	0.010
LEAD pH 8.5	99%	0.15 +/- 10%	0.010
LINDANE*	>99%	0.055	0.00001
METHOXYCHLOR*	>99%	0.050	0.0001
METHYLBENZENE (see TOLUENE)*	>99%	0.078	0.001
MONOCHLOROBENZENE (see CHLOROBENZENE)*	>99%	0.077	0.001
PCE (see TETRACHLOROETHYLENE)*	>99%	0.081	0.001
PENTACHLOROPHENOL*	>99%	0.096	0.001
PERCHLOROBUTADIENE (see HEXACHLOROBUTADIENE)*	>98%	0.044	0.001
PROPYLENE DICHLORIDE (see 1,2-DICHLOROPROPANE)*	>99%	0.080	0.001
SIMAZINE*	>97%	0.120	0.004
SILVEX (see 2,4,5-TP)*	99%	0.270	0.0016
STYRENE (Vinylbenzene)*	>99%	0.15	0.0005
1,1,1-TCA (see 1,1,1-TRICHLOROETHANE)*	95%	0.084	0.0046
TCE (see TRICHLOROETHYLENE)*	>99%	0.180	0.0010
1,1,2,2-TETRACHLOROETHANE*	>99%	0.081	0.001
TETRACHLOROETHYLENE*	>99%	0.081	0.001
TOLUENE (Methylbenzene)*	>99%	0.078	0.001
TOXOPLASMA (See CYST)		minimum 50,000/mL	99.95%
2,4,5-TP (Silvex)*	99%	0.270	0.0016
TRIBROMOACETIC ACID*		0.042	0.001
1,2,4 TRICHLOROBENZENE (Unsymtrichlorobenzene)*	>99%	0.160	0.0005
1,1,1-TRICHLOROETHANE (1,1,1-TCA)*	95%	0.084	0.0046
1,1,2-TRICHLOROETHANE*	>99%	0.150	0.0005
TRICHLOROETHYLENE (TCE)*	>99%	0.180	0.0010
TRIALOMETHANES (TTHM) (Chloroform; Bromoform; Bromodichloromethane; Dibromochloromethane)	>99.8%	0.300 +/- 0.30	0.015
Unsym-Trichlorobenzene (see 1,2,4-TRICHLOROBENZENE)*	>99%	0.160	0.0005
Vinylbenzene (see STYRENE)*	>99%	0.150	0.0005
XYLENES (TOTAL)*	>99%	0.070	0.001

Contaminant	Influent Challenge Concentration	Percent Reduction Achieved	Maximum Permissible Product Water Concentration
Aesthetic Chlorine Taste & Odor	2.0 mg/L + 10%	97%	> = 50%
Particles Class IV Size >= 15 ug to < 30 ug	13,000 Particles /ml	96%	> = 85%

California Proposition 65 Warning

WARNING: this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (Installer: California law requires that this warning be given to the consumer). For more information: www.wattsind.com/prop65.

Other Products from Watts Premier

Watts Premier has other fine water filtration products and accessories to enhance your water and to compliment your water filtration system. Listed on this page are only a few of the items we offer. Visit our web site at www.wattspremier.com or call our Customer Service Representatives at 1-800-752-5582 (inside USA) 1-480-675-7995 (outside USA) for more products.



Water Pressure Gauge

This gauge mounts onto your outside hose connection to accurately show your home's water pressure up to 300 psi. A red needle shows peak overnight pressure, which may exceed readings during the day. High pressure readings may indicate the need for a pressure regulator to prevent damage to appliances.

Part No. 261003

***\$11.50/ea**



Whole House Filter

Great for sediment problems such as in well water supply or areas where dirt and rust particles are a problem. Includes three 50 micron sediment filters and wrench

(3/4" ports)

Part No. 500223

***\$42.95/ea**

Replacement filter

Part No. 304007

***\$ 4.50/ea**



Watts Premier Hot Water Recirculation System

Bring convenience and savings to your home, giving you hot water instantly at every faucet, when you need it. This unique product is easy to install and not only provides you with the convenience of hot water when you need it, but saves an average of over 15,000 gallons per year.

Part No. 500800

***\$229.99/ea**



Pool Doc Pool & Spa Water Tester

PoolDoc™ accurately measures pool and spa chemistry and provides instructions on how to bring the pool/spa back into balance.

Part No. 164040

***\$189.99/ea**



Whole House High Performance Water Pressure Regulator

Provides water pressure control solutions for residential, commercial, and industrial applications. Offers durability and years of continuous trouble free operation.

Part No. 107001

***\$69.95 each**

****All prices subject to change without notice.***



8716 W Ludlow Drive Suite #1 • Peoria, AZ 85381

Limited Warranty

What your Warranty Covers:

If any part of your WATTS PREMIER FILTER PURE UF3 unit is defective in workmanship (excluding replaceable filters), return unit after obtaining a return authorization (see below), within 3 years of original retail purchase, WATTS PREMIER will repair or, at WATTS PREMIER'S option, replace the system at no charge.

How to obtain Warranty Service:

For warranty service, call 1-800-752-5582 for a return authorization number. Then, ship your unit to our factory, freight and insurance prepaid, with proof of date of original purchase. Please include a note stating the problem. Premier 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, (contrary to WATTS PREMIER'S printed instructions), 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 Filter-Pure UF3 System must be hooked up to a potable municipal or well cold water supply.
2. The pH of the water must not be lower than 5 or higher than 10.
3. The incoming water pressure must be between 20 and 85 pounds per square inch.
4. Incoming water to the Counter Top cannot exceed 100 degrees F (38 degrees C.)

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

This warranty does 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 PREMIER WILL NOT BE RESPONSIBLE FOR ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. WATTS PREMIER 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 PREMIER'S RESPONSIBILITIES REGARDING THIS EQUIPMENT.

OTHER CONDITIONS:

If WATTS PREMIER chooses to replace the equipment, WATTS PREMIER 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.