

A WATTS Brand

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

Save manual for future reference

3-Stage Filtration System Model: Filter Pure UF3

A WARNING



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

A WARNING

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

IMPORTANT

If you are unsure about installing your WATTS water filter, contact a WATTS representative or consult a professional plumber.

A CAUTION

Discard small parts remaining after the installation.

NOTICE

Failure to install the system correctly voids the warranty. Handle all components of the system with care. Do not drop, drag or turn components upside down.

Be sure the floor under the water filter system is clean, level and strong enough to support the unit.



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.

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

Watts Premier www.premierh2o.com

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



USA: Tel. (800) 752-5582 **Canada:** Tel. (905) 332-4090

Overview

Thank you for your purchase of a state of the art 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 0.1 Micron (Nominal) 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 call our customer service/technical department at 800-752-5582.

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Operational Parameters

NOTICE Installation must comply with state and local plumbing regulations.

NOTICE

Do not use with water that is microbiologically unsafe or of unknown quality, without adequate disinfection before or after the system.

	Maximum	Minimum
Operating Temperature:	100°F (37.8°C)	40° F (4.4°C)
Operating Pressure:	85 psi (5.98 g/cm ²)	20 psi (1.40 kg/cm ²)
pH Parameters:	10	5
Flow Rate:	0.5 gpm @ 60 psi	

Contents of Under Counter System

Please make sure all of the items listed below are contained in the box. If any of the items are missing please contact Watts Premier at 800-752-5582 prior to installing.

- UF3 Unit
- Sediment, LVOC Carbon, and UF Membrane (Attached)
- Parts Bag
- Faucet Assembly
- Blue & Green Hoses

Tools Recommended For Installation

- Small knife
- Variable speed drill
- □ 1/8" (3mm), 1/4" (6.4 mm) and 7/16" (11.0mm) drill bits
- □ 1/2" Diamond Tip Drill bit (for porcelain sinks)
- □ 1/2" hole punch (for stainless steel sinks)
- □ 1/2" and 5/8" open-end wrenches (or an adjustable wrench)
- Phillips screwdriver



Using Quick-Connect Fittings Cutting



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

Connecting



Make certain to push the tubing completely into the connector until it comes into contact with the internal tubing 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 the site and/or before use.

Disconnecting



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

			G
		Parts List	
Item	Dort#		
	Part#	Description	
A	560080	Description Adapt-A-Valve	
A B	560080 142000	DescriptionAdapt-A-ValveGreen Tube	
A B C	560080 142000 142001	DescriptionAdapt-A-ValveGreen TubeBlue Tube	
A B C D	560080 142000 142001 105311	DescriptionAdapt-A-ValveGreen TubeBlue TubeSediment Filter	
A B C D E	Fail# 560080 142000 142001 105311 105371	DescriptionAdapt-A-ValveGreen TubeBlue TubeSediment FilterLVOC Carbon Filter	
A B C D E F	560080 142000 142001 105311 105321	DescriptionAdapt-A-ValveGreen TubeBlue TubeSediment FilterLVOC Carbon FilterUF Membrane	
A B C D E F G	560080 142000 142001 105311 105371 105321 116113	DescriptionAdapt-A-ValveGreen TubeBlue TubeSediment FilterLVOC Carbon FilterUF MembraneBrushed Nickel Faucet	

Sustam Diagra

Drill a Hole for the Faucet in a Porcelain Sink

NOTICE For Marble Counter-tops, we recommend contacting a qualified contractor for drilling a hole in a marble counter-top.

Note: Most sinks are predrilled with 1½" or 1¼" diameter hole that you can use for your Drinking Water faucet. (If you are already using it for a sprayer or soap dispenser, see Step 1).

NOTICE 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 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 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: After drilling, remove all sharp edges and make sure the surroundings of the sink are cooled before mounting the faucet.





Or Punch a Hole for the Faucet in a Stainless Steel Sink

- **NOTICE** If mounting faucet to a Stainless Steel Sink you will need a 1/2" 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 1: Drill a $\frac{1}{4}$ " pilot hole. Use a $\frac{1}{2}$ " Hole Punch and an adjustable wrench to punch the hole in the sink.
- Step 2: The Faucet can now be installed





Faucet Installation

Parts List for Faucet				
Item	Description			
А	Escutcheon Plate			
В	Black Rubber Washer			
С	Black Locating Washer (use where A 1/2" hole is available, reverse when mounting on stain- less steel or when using drilled hole)			
D	Lock Washer			
Е	Nut			
F	Insert			
G	Plastic Sleeve			
Н	1/4" Compression Nut			



Gather and identify the faucet pieces

- Step 5: Place the escutcheon plate and the black rubber washer on the threaded stem. (Parts found in faucet parts bag).
- Step 6: Insert the threaded stem through the hole in sink and let it rest on the sink top.
- Step 7: From the underside of the sink, slide on the black locating washer, lock washer, and nut onto the threaded stem. Check the orientation of faucet then tighten the nut securely
- Step 8: Locate the 1/4" blue tube. Grab the following parts from the faucet parts bag and place onto the end of the straight end of the tube: the brass nut, plastic 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.
- Step 9: Push the assembled tube into the threaded stem until it stops. Slide the compression nut and plastic sleeve until you can thread the nut onto the faucet. Use a wrench to securely tighten the compression nut while continuing to push the tube into the faucet.
- Step 10: Push the other end of the blue tube with the 90° bend into the back of the filter module (behind the carbon filter)

Adapt-a-Valve Installation

NOTICE

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

NOTICE 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.
- Step 12: Open cold water sink faucet to relieve pressure.
- Step 13: Choosing the configuration that fits your plumbing, attach the Adapt-A-Valve[™] as illustrated in the diagrams above.
 - **NOTICE** 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. The Brass Adapters do not need to be tightened with a wrench, only finger tight.

Green Tube Connection

- Step 14: Location the 1/4" Green tube in the parts bag. Insert the open end of the tube with the 90° bend into the open 1/4" quick-connect fitting located behind the Sediment filter. Make sure to push the tube in all the way to the tube stop.
- Step 15: Take the other end of the 1/4" Green tube and insert into the 1/4" quick connect fitting on the plastic Adapt-A-Valve. Make sure to push the tube in all the way to the tube stop.



Mounting System Under Sink

- Step 16: 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 16: 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.



Start up Instructions

Congratulations! You have completed the installation of your new water filtration system. Please Follow the Startup 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.

NOTICE 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.

6 Month System Maintenance

Replace: Sediment (PN# 105311) LVOC Carbon Block (PN #105371)

Annual System Maintenance

Replace:	Sediment	(PN# 105311)
-	LVOC Carbon Block	(PN #105371)
	UF Membrane	(PN# 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.
- PULL
- 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).
 - **NOTICE** 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.

Performance Data Sheet

Watts Premier 8716 W Ludlow Drive Suite #1 Peoria, AZ 8538

Model: Filter Pure UF3

GENERAL USE CONDITIONS:

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 waters that may contain filterable cysts.

Minimum 40° F (4.4° C)

Minimum 20 psi

2: Operating Temperature:3: Operating Water Pressure:

Maximum 100° F (40.5° C) Maximum 85 psi (5.98 kg/cm²)

4: Maximum flow Rate:

5: Rated Capacity:

Maximum 85 psi (5.98 kg/cm²) 0.50 gpm (1.89 lpm) 150 Gallons (570 liters)

RECOMMENDED REPLACEMENT PARTS AND CHANGE INTERVAL:

Note: Depending on incoming feed water conditions replacement time frame may vary.

Description	Part Number	Change Time Frame
Stage 1: sediment:	105311	6 Months
Stage 2: Lead + VOC Block	105371	6 Months
Stage 3: UF Membrane	105321	12 Months

This system has been tested according to NSF/ANSI Standard 42 and 53 for the 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 42 and 53. Testing performed under standard laboratory conditions, actual performance may vary.

Substance	Percent Reduction	Influent Challenge Concentration (mg/L unless noted)	Maximum Permissible Product Water Concentration
ALACHLOR*	>98%	0.05	0.001
ATRAZINE*	>97%	0.1	0.003
BENZENE*	>99%	0.081	0.001
BROMODICHLOROMETHANE (TTHM)*	>99.8%	0.300 +/- 0.30	0.015
BROMOFORM (TTHM)*	>99.8%	0.300 +/- 0.30	0.015
CARBOFURAN (Furadan)*	>99%	0.19	0.001
CARBON TETRACHLORIDE*	98%	0.078	0.0018
CHLOROBENZENE (Monochlorobenzene)*	>99%	0.077	0.001
CHLOROFORM (TTHM)*	>99.8%	0.300 +/- 0.30	0.015
CRYPTOSPORIDIUM (see Cyst)	99.99%	minimum 50,000/mL	99.95%
CYST	99.99%	minimum 50,000/mL	99.95%
2, 4-D*	98%	0.110	0.0017
DBCP (see Dibromochloropropane)*	>99%	0.052	0.00002
1,2-DCA (see 1,2-DICHLOROETHANE)*	95%	0.088	0.0048
1,1-DCE (see 1,1-DICHLOROETHYLENE)*	>99%	0.083	0.001
DIBROMOCHLOROMETHANE (TTHM;Chlorodibromomethane)*	>99.8%	0.300 +/- 0.30	0.015
DIBROMOCHLOROPROPANE (DBCP)*	>99%	0.052	0.00002
o-DICHLOROBENZENE (1,2 Dichlorobenzene)*	>99%	0.08	0.001
p-DICHLOROBENZENE (para-Dichlorobenzene)*	>98%	0.04	0.001
1,2-DICHLOROETHANE (1,2-DCA)*	95%	0.088	0.0048
1,1-DICHLOROETHYLENE (1,1-DCE)*	>99%	0.083	0.001
CIS-1,2-DICHLOROETHYLENE*	>99%	0.17	0.0005
TRANS-1,2- DICHLOROETHYLENE*	>99%	0.086	0.001
1,2-DICHLOROPROPANE (Propylene Dichloride)*	>99%	0.08	0.001
CIS-1,3- DICHLOROPROPYLENE*	>99% age 11	0.079	0.001

Substance	Percent Reduction	Influent Challenge Concentration (mg/L unless noted)	Maximum Permissible Product Water Concentration
DINOSES	99%	0.17	0.0002
EDB (see ETHYLENE DIBROMIDE)*	>99%	0.044	0.00002
ENDRIMN	99%	0.053	0.0059
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
	99,99%	minimum 50 000/ml	99.95%
	33.3376	0.05	33.3378
	>99%	0.25	0.00001
	98%	0.0107	0.0002
(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
TRIHALOMETHANES (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
			Maximum Permissible

Contaminant	Influent Challenge Concentration	Percent Reduction Achieved	Product Water Concentration
Aesthetic Chlorine Taste & Odor	2.0 mg/L + 10%	97%	> = 50%

Service Record

 Date of Purchase:

 Model Number:

 Serial Number:

Date of Install: _____ Installed by: _____

Date	Sediment Filter (6 Months)	Carbon Block (6 Months)	UF Membrane (12 Months)	Date:	Sediment Filter (6 Months)	Carbon Block (6 Months)	UF Membrane (12 Months)



Limited Warranty

WHAT YOUR WARRANTY COVERS:

If any part of your UF3 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 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 documentation and a return authorization number. Once the return authorization number has been created, ship your filter system 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 without the proper return authorization number. Watts 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 WATTS PREMIER'S RESPONSIBILITIES REGARDING THIS EQUIPMENT.

OTHER CONDITIONS:

If Watts Premier chooses to replace the equipment, 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.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **For more information: www.watts.com/prop65**