Installation, Operation and Maintenance Manual

Under Counter Quick-Change (QC) Drinking Water System

Model: WQCFU-T-11KIT

⚠ 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.

THINK SAFETY FIRST

⚠ 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.

⚠ CAUTION

Test the water periodically to verify that the system is performing satisfactorily. 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.

Table of Contents

Pages

WATTS®

Introduction

Thank you for your purchase of a state of the art Watts water treatment system. Your new system is equipped with a unique valve in head assembly. This allows for a simple and sanitary twist off filter change that does not require you to turn off the water source to the filtration system.

This 3-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 high quality carbon block filter for chlorine, taste and odor reduction. The third stage is our state of the art UF Hollow Fiber Technology membrane for the reduction of most colloids and impurities as small as - 0.1 micron nominal.

Ultra filtration is a membrane filtration process which uses standard home water pressure to push water through its semi permeable membrane. Tiny suspended particles are unable to pass through the 0.1 micron (nominal) UF membrane, allowing fresh clean 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. Therefore it provides a continuous supply of premium quality drinking water directly to your tap.

NOTICE

Filter & Membrane life may vary based upon local water conditions and/or use patterns.

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.

Service Record

Model Number:_____Serial Number: _____

Date of Purchase:_____ 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)

Operational Parameters

NOTICE

System is intended to be installed on the cold water line only.d

Operating Temperatures	Maximum 100°F (37.8°C)	Minimum 40°F (4.4°C)
Operating Pressure	Maximum 85psi (6.0 kg/cm2)	Minimum 20psi (2.80 kg/cm2)
pH Parameters	Maximum 10	Minimum 5
Flow Rate	0.5 GPM @ 60psi	

Contents of UF Under Counter System

(1) 3-Stage Filtration System

(1) Adapt-a-valve

(2) White Tubes

(3) Filters

(1) Faucet with parts bag

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

Tools Recommended for Installation

- Small knife
- Variable Speed Drill
- ½" & ⅝" Open End Wrenches
- ½" Hole Punch (for stainless steel sinks)
- ½" Diamond Tip Drill Bit (for porcelain sinks)
- ⅛" Drill Bit
- ¼" Drill Bit
- 7/16" Drill Bit
- Phillips Screw Driver

STEP 1

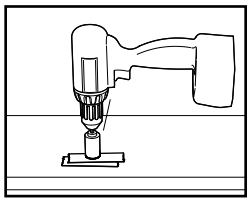
Drill a Hole for the Faucet in a Porcelain Sink

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 A).

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.



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

Step B – Using a variable speed drill set on the slowest speed, drill a ⅛" 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 C – Using a ½" 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 D – Make sure the surroundings of the sink are cooled before mounting the faucet to the sink after drilling and remove all sharp edges.

OR

Punch a Hole for the Faucet in a Stainless Steel Sink

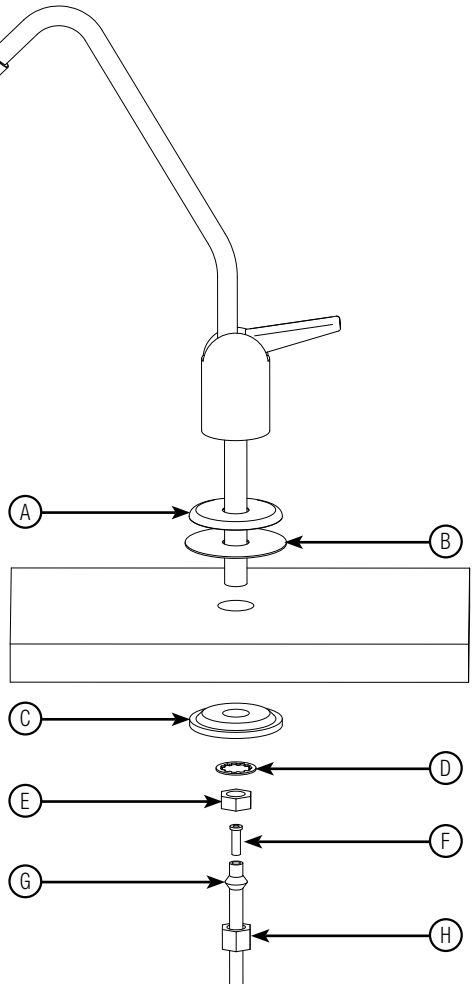
NOTICE

If mounting faucet to a Stainless Steel Sink you will need a ½" 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 A – Drill a ¼" pilot hole. Use a ½" Hole Punch and an adjustable wrench to punch the hole in the sink.

The faucet can now be installed.

STEP 2



Faucet Installation

PARTS LIST FOR FAUCET	
ITEM	**DESCRIPTION**
A	Escutcheon Plate
B	Black Rubber Washer
C	Black Locating Washer (use where A 1/2" hole is available, reverse when mounting on stainless steel or when using drilled hole)
D	Lock Washer
E	Nut
F	Insert
G	Plastic Sleeve
H	1/4" Compression Nut

Gather and identify the faucet pieces.

Step A - Place the escutcheon chrome plate and the black rubber washer on the threaded stem. (Parts found in faucet parts bag).

Step B - Insert the threaded stem through the hole in sink and let it rest on the sink top.

Step C - From the underside of the sink, slide on the location washer, lock washer and brass nut onto the threaded stem. Check the orientation then tighten brass nut securely.

Step D - Locate one of the white tubes, then place the compression nut on the tube first, then the sleeve (small tapered end of the sleeve must point to the end of tube) and then insert the plastic insert all the way into the end of the tube.

Step E - Push the assembled tube into the threaded stem until it stops. Slide the compression nut and plastic sleeve until you can thread nut onto the faucet. Use a wrench to securely tighten the compression nut while continuing to push the tube into the faucet.

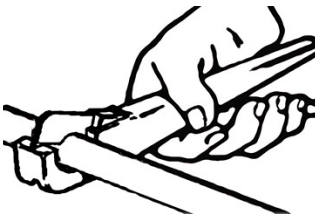
Step F - Connect the other end of the tube into the right side of the unit, next to the filter labeled "UF Membrane"

NOTICE

DO NOT overtighten nut.

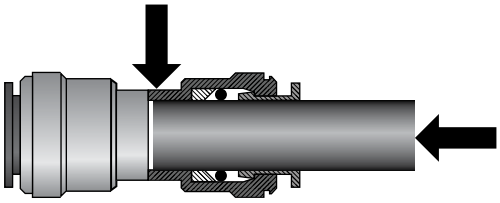
Using Quick-Connect Fittings

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.

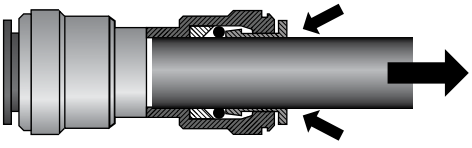
Connecting



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.

STEP 3

Adapt-A-Valve™ Installation

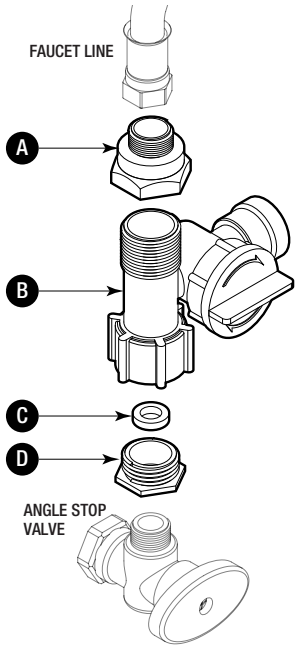
NOTICE

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

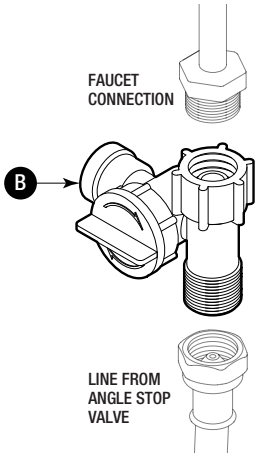
NOTICE

Do not use Teflon tape with the Adapt-A-Valve™.

For 3/8” Configuration



For 1/2” Configuration



PARTS LIST FOR ADAPT-A-VALVE (VERIFY CONTENTS PRIOR TO INSTALLATION)	
ITEM	DESCRIPTION
A	Brass Adapter with black washer
B	Plastic Adapt-a-valve & Black Collet
C	White Rubber Washer
D	Brass Adapter with no washer

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

Step B - Open cold water sink faucet to relieve pressure.

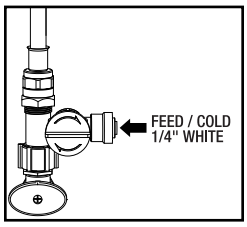
Step C - Choosing the configuration that fits your plumbing, attach the Adapt-A-Valve™ as illustrated in the four photos above.

STEP 4

Cold Water Connection

Step A – Locate one of the white tubes and insert one into the adapt-a-valve making sure the tube is pushed in all the way to the tube stop

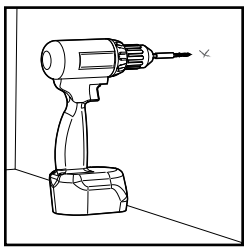
Step B – Connect the other end of that same white tube into the port on the left-side of the filter module. Near the filter labeled “Sediment”



STEP 5

UF Drinking System Module Mounting

Step A – Determine best location for the UF Filter Module to be mounted to allow for future system maintenance. The parts bag has 2 self-tapping screws. Using an electric drill with a Phillips bit, screw them into the cabinet wall 6" apart and 16" from the bottom of the cabinet.



System Start Up

Step A– 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 B – 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

6-Month System Maintenance

Replace:

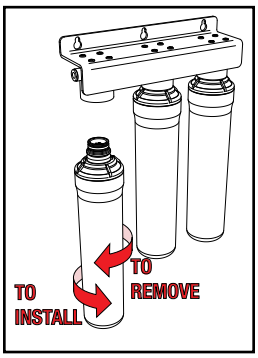
- (1) Sediment Filter
- (1) Carbon Block Filter
- (1) UF Membrane Filter

NOTICE

Your UF Drinking Water Module 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.

Step A – Place the towel under the UF Drinking Water Module to catch any excess water that drips out from the filters during the changeover.

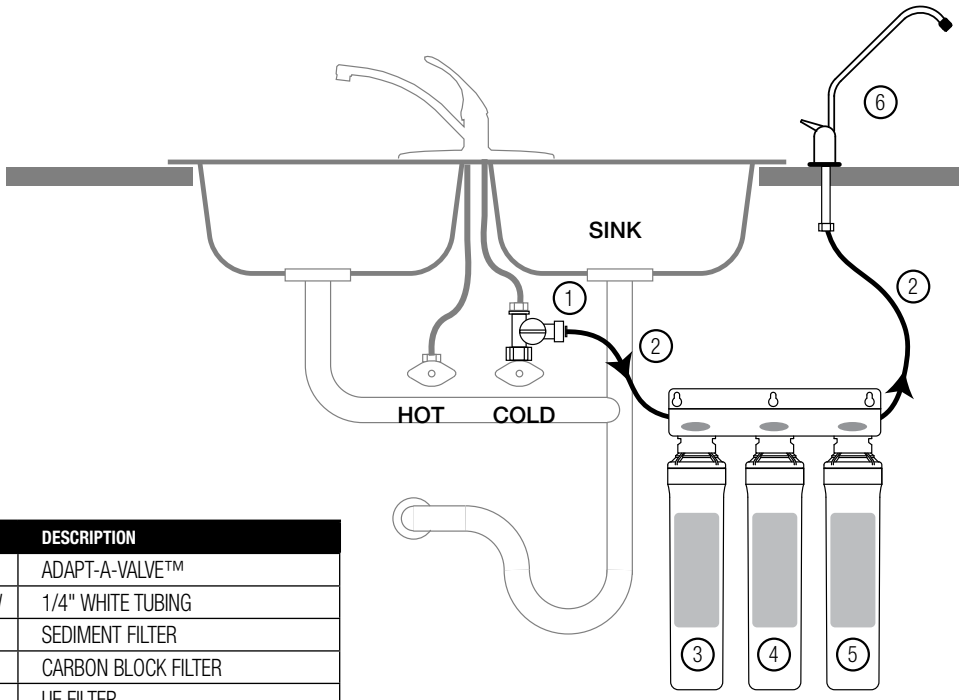
Step B – To remove a filter cartridge: Rotate the filter 1/4-turn clockwise. Pull the cartirdge downward (from filter head) to remove. Dispose of old filter



Step C – To install a filter cartridge: Orient the cartridge with the label facing to the left (9 o'clock positon). Push the cartridge into the head and rotate 1/4-turn counter-clockwise

Step D – Repeat this procedure for the 2nd filter cartridges. When finished, flush your system completely once to remove any natural carbon fines from the UF Drinking system. Check over the next 24 hours to ensure no leaks are present.

Parts List



ITEM #	PART #	DESCRIPTION
1	F560080	ADAPT-A-VALVE™
2	PE-08-BI-0500FW	1/4" WHITE TUBING
3	WQCSC11	SEDIMENT FILTER
4	WQCCC11	CARBON BLOCK FILTER
5	WQCHFC11	UF FILTER
6	F116023	NON AIR-GAP FAUCET - CHROME

Technical Data Sheet

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.

2. Operating Temperature:	Maximum 100° F (38° C)	Minimum 40° F (4.4° C)
3. Operating Water Pressure:	Maximum 85 psi (5.98 kg/cm^2)	Minimum 20 psi (1.41 kg/cm^2)
3. Maximum flow Rate:	0.50 gpm (1.89 lpm)	
4. Rated Capacity:	2,000 Gallons (7,571 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	WQCSC11	6 Months
Stage 2: Carbon	WQCCC11	6 Months
Stage 3: UF Membrane	WQCHFC11	12 Months

Limited Warranty

This Drinking Water Filter Unit 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 Drinking Water Filter Unit 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 20 and 85 pounds per square inch.
6. Incoming water to the filter system cannot exceed 100 degrees F (38 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.

WATTS®

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