

PCCS Under Counter Installation

Boxes contain: 1 filter housing with lid, 4 filters (1 ea. of A, B, C, & D) pre-installed into filter housing, 1 flexible metal hose (to be set aside for possible future countertop use), 1 filtration supply valve, 1 diverter valve, 1 pressure control valve, 1 filter water faucet assembly (consisting of: 1 faucet, 1 cover plate, 1 black rubber washer, 1 black locating washer, 1 star washer, 1 lock nut, 1 1/4" tube insert, 1 1/4" ferrule, and 1 1/4" compression nut), and a length of 1/4" white plastic tubing.

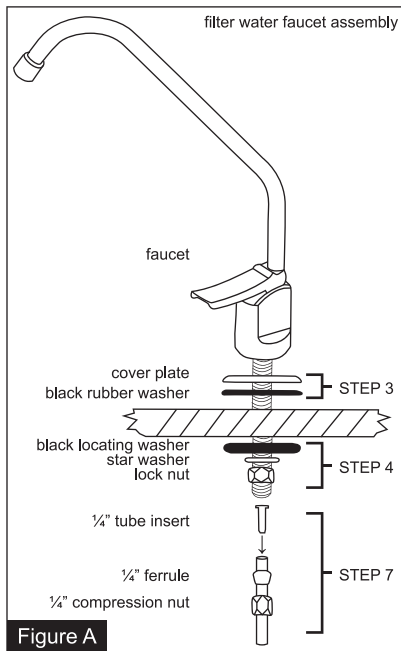


Figure A

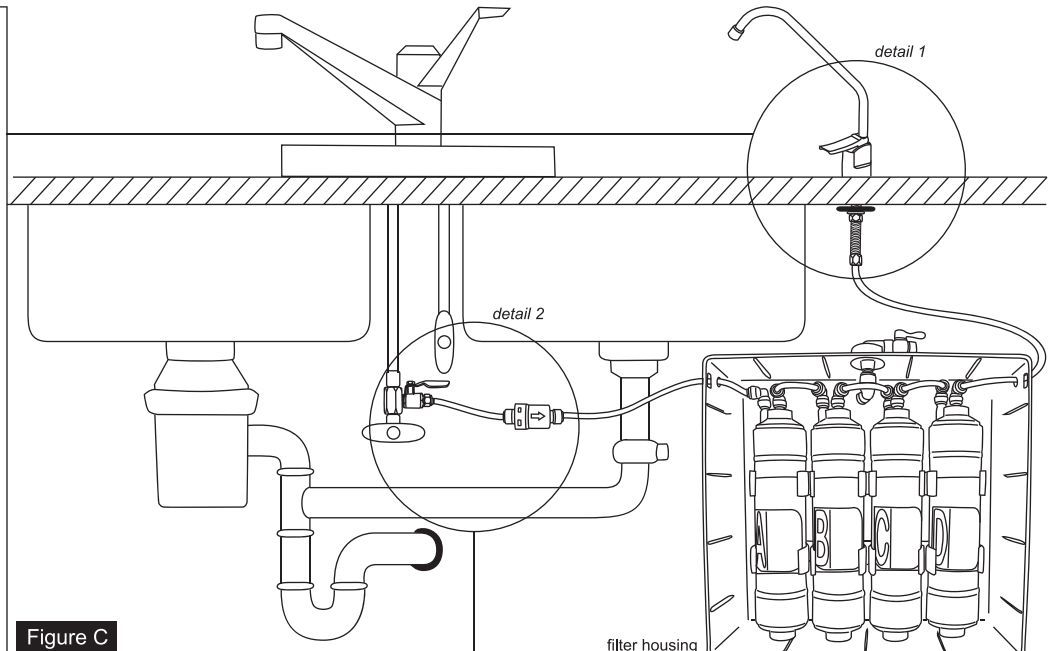


Figure C

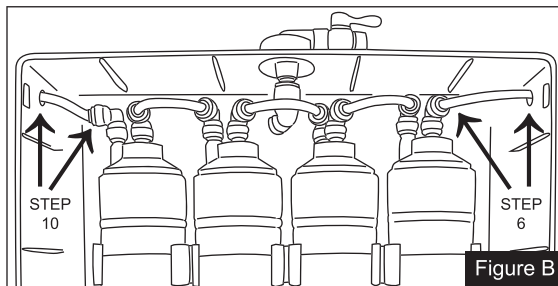


Figure B

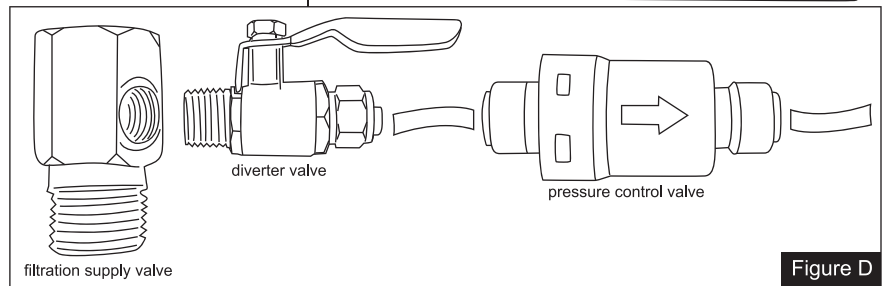


Figure D

1. Turn off the cold water shut off valve to your kitchen sink. Open the faucet to confirm that the water is completely turned off and allow the faucet to drain and release pressure.
2. Locate an available hole to mount the filter faucet (usually a covered accessory hole for a spray nozzle which you may choose to remove). If no hole is available, drilling may be required—please consult a professional if you are unsure of what to do or have a marble, granite, or porcelain countertop. (detail 1)
3. Slide the cover plate onto the stem of the faucet followed by the black rubber washer. Place the faucet into the available hole. (This arrangement is ideal for a 1/2" hole. When mounting on stainless steel or in a drilled hole, use the black locating washer.) (figure A)
4. From beneath the counter, slide the black locating washer (if the locating washer was used in the previous step, as outlined, use the rubber washer now), star washer, and lock nut onto the stem of the faucet. Hand tighten lock nut loosely. Align faucet as desired from above before properly tightening the lock nut, being careful to not over-tighten. Set aside remaining parts of the faucet assembly for STEP 7. (figure A)
5. Place the filter housing in a position convenient for accessing tubing, punch-out outlets on both sides of the housing (top and bottom), and the filters (for change in the future). The unit may alternately be mounted, considering access, by using the hanging holes on the back of the filter housing and appropriate hardware for your cabinets and walls.
6. Punch out one of the outlets on the housing near the D filter (the right side). Securely press tubing into the compression coupling of the D filter and run it through the punched-out outlet. (figure B)
7. Determine the proper length of tubing needed to reach the stem of the faucet and cut to size if there is an excess. Slide the 1/4" compression nut over the free end of the tubing followed by the 1/4" ferrule. Insert the 1/4" tube insert into the free end of the tubing and push the tubing into the stem of the faucet. Slide the ferrule and compression nut up to the base of the faucet stem and tighten the nut onto the threads of the stem very securely. When properly tightened, the tubing will NOT come out of the faucet stem when pulled with force. Use a wrench if needed. (figure A)
8. Detach the cold water supply line from the kitchen faucet. Insert the filtration supply valve. Tighten the nut until snug by hand or with a wrench. Do not overtighten. Re-attach the kitchen faucet supply line to the top end of the supply valve. Use a wrench to tighten until snug. Do not overtighten. Screw the diverter valve into the hole of the supply valve and be sure to leave it in the off position (lever of the diverter valve in a perpendicular position), (figure C, detail 2)
9. Attach a short section of tubing to the diverter valve and make sure to press it in securely. Attach the other end of the tubing into the compression coupler of the pressure control valve making sure that the arrow points in the direction of water flow (away from the main line and towards the filter). (figure D)
10. Attach a length of tubing of appropriate size to the other end of the pressure control valve. The tubing should be long enough to easily go from the pressure control valve to the A filter inside the filter housing. Punch out one of the outlets on the housing near the A filter (the left side). Run the tubing through the punched-out outlet and securely press tubing into the compression coupling of the A filter. (figure B)
11. The circuit is now complete. Test all connections and compression couplings in the set up and inside the filter housing. A proper compression coupling does not come apart when pulled with force—press tube in harder to engage if unsuccessful. Retighten other connections if necessary.
12. Remove the aerator from the kitchen faucet to allow sediment to flush out. Slowly open the cold water shut-off valve. Open the standard kitchen faucet and allow water to run for 30 seconds. Check for leaks. Open the diverter valve on the supply line to the filter. Run the filtered water faucet. Filtered water should flow freely from the filtration faucet.
13. The first time you run water you will notice a delay as the filters fill up. When water comes out it will be black and flushing carbon that loosened during shipping for a few minutes. Let water flow for 3-5 minutes. When the water clears up the filter will be ready for use.