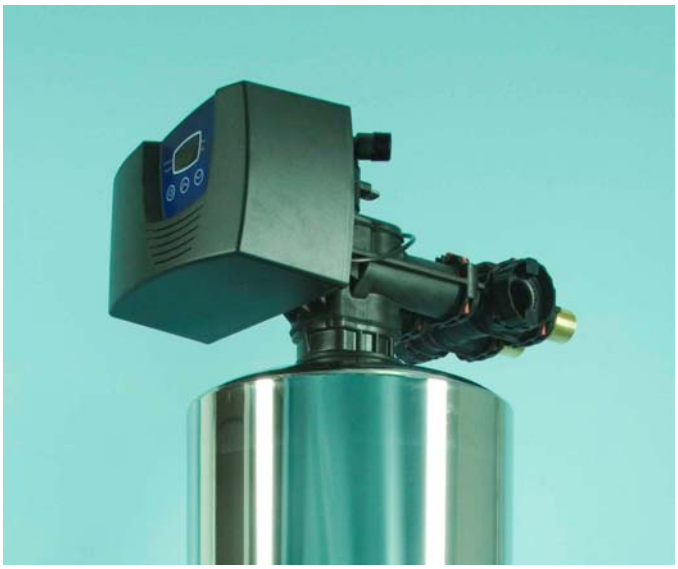
INSTALLATION and SERVICE MANUAL

HOUSEPURE®

MODELS
HP03 and HP04



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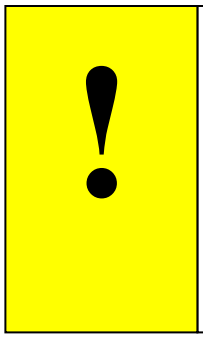


CAUTION: **Read and follow the information in this manual to minimize the risk of electric shock or personal injury.**

IMPORTANT! ***If you are unsure about installing of your water filter, contact the helpline or consult a professional plumber.***

IMPORTANT! ***This system must be installed in compliance with applicable state and local codes, law, and regulations.***

Important Safety Information – Read All Instructions Before Using

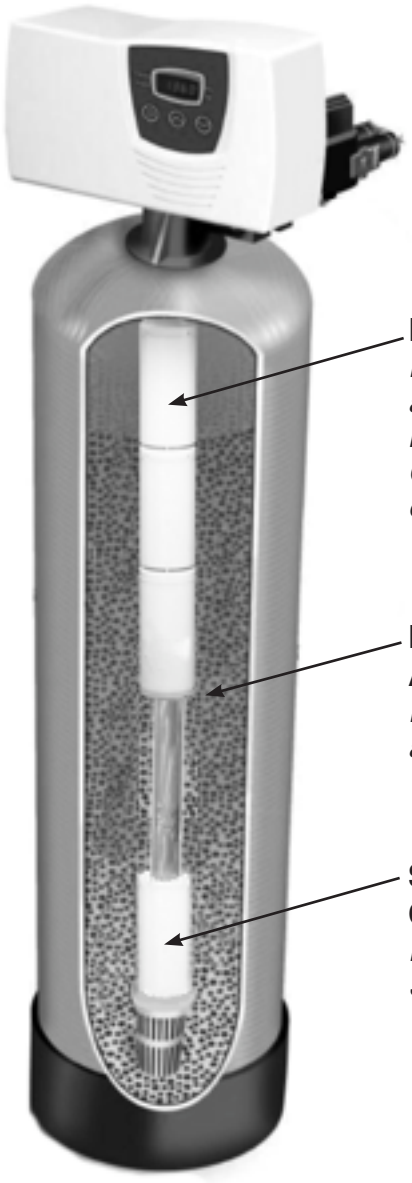
- Before beginning installation, read all these instructions completely. Then obtain all the materials and tools needed for installation.

  NOTE: *Failure to install the HOUSEPURE® system correctly voids the warranty.*
- Perform installation according to state and local plumbing codes.

- 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 and level.
- The system uses 120 volt-60Hz electrical power. Always use the power cord supplied.
  - Plug power cord into an indoor 120 volt, grounded outlet.
- Install system in a protected area. Be sure electric outlet and transformer do not come in contact with water. See *Where to Install the Filter*, in the installation section of the manual.
  - Always connect the system to the main water supply pipe **before** the water heater.
  - Do not expose system to freezing temperatures. Water freezing in the system causes equipment damage.

- Minimum inlet water pressure is 40 psi. Maximum inlet water pressure is 125 psi. Use pressure reducing valve if necessary.

Equipment Overview



KDF MediaGuard
Removes Chlorine and extends the life of the Activated Carbon. (HP03 only)

Premium Granular Activated Carbon
Removes taste, odors and THM's.

ScaleFree Water Conditioner
Reduces Hard Water Scaling

Bypass Valve

Specifications

Feedwater
! Do not use this system on water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. !
Minimum inlet pressure: 40 psig
Maximum outlet pressure: 125 psig

Power
Voltage: 120VAC
Frequency: 60Hz
Power consumption: 7 Watts Maximum

Installation

Minimum ambient temperature: 34 degrees F
Maximum ambient temperature: 122 degrees F

Setup

Unpacking and Inspection
Check the system components for damage or missing parts.

Where to Install the Filter
Consider the following points when determining where to install the water filter:

- Place the system as close as possible to a sewer drain. Runs of up to 12' elevation above the control head is permissible.
- Do not install the filter where it would block access to the water heater, or access to the main water shutoff, water meter, or electrical panels.
- A 120V electrical outlet is needed to plug in the transformer. If the outlet is remote (up to 100 feet), use 18 gauge wire to connect.
- Always connect the system to the main water supply pipe before the water heater.
- Install the system where it will not be subject to temperatures outside of the limits stated in the Specification section or to direct sunlight.

Installation

1. Determine installation site and locate water main.

2. Turn off the water supply to pipes to be cut and drain the house water pipes.

3. Open both hot and cold faucets.

4. Move the filter assembly into installation position.
   - Be sure the installation surface is level and smooth.

5. Plumb IN and OUT connections to and from the filter.
   - Be sure the incoming hard water supply is directed to the INLET port of the valve.
   - The valve body of the control is marked with arrows indicating the proper flow direction.
   - Connections are illustrated below.

Figure 1

CAUTION: If making a soldered copper installation, do all sweat soldering before connecting pipes to the bypass valve. Torch heat will damage plastic parts.

CAUTION: When turning threaded pipe fittings onto plastic fittings, use care not to cross-thread.

CAUTION: Use Teflon tape on all external pipe threads. Do not use pipe joint compound.

CAUTION: Support inlet and outlet plumbing in some manner (use pipe hangers) to keep the weight off of the valve fittings.

Use Step 10 to install rigid drain pipe.

6. To adapt a rigid drain pipe to the ***HP03 or HP04*** system, do not attach barbed hose fitting to valve. Instead, plumb rigid tubing directly to the 1/2" male NPT drain fitting.

7. Cut and glue drain pipe to a suitable drain making sure it is secure.

8. Place bypass valve in "bypass" position

1. Bypass **2. Service**

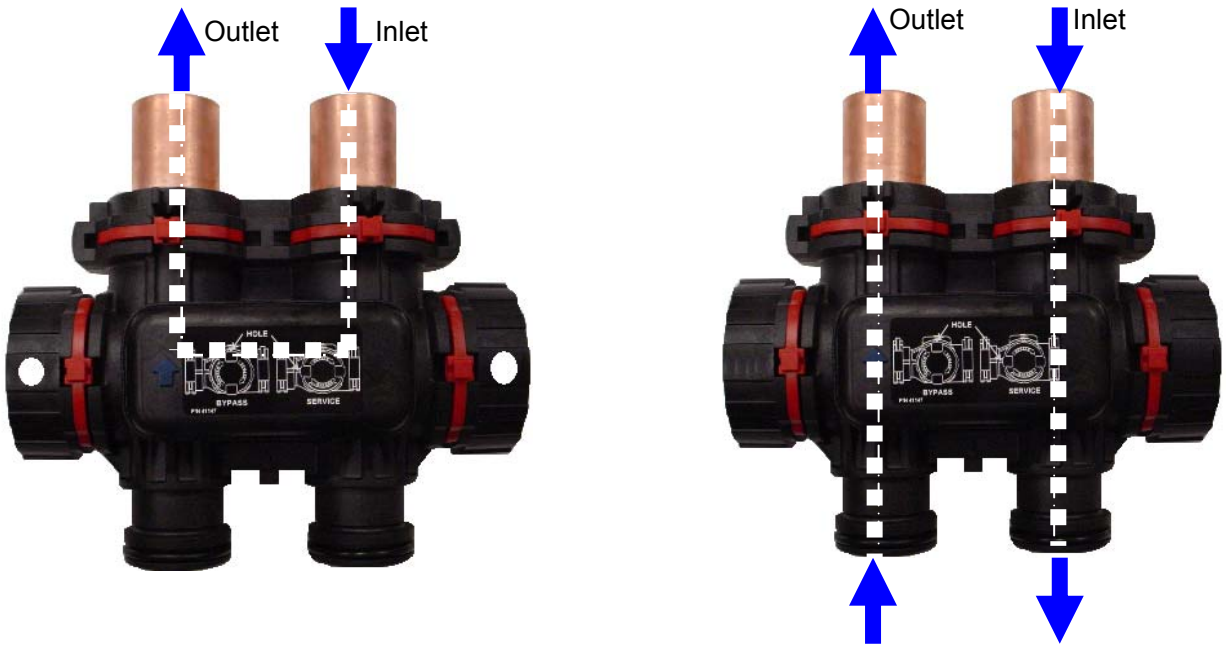


Figure 3

9. Fully open the house main water shutoff valve.

10. Slowly, turn “INLET” bypass valve back in the “service” position. Allow water to flow into the unit.

11. Push and hold “extra cycle” button to allow unit to go into backwash.

12. Allow unit to run to drain for approx 5 minutes.

13. Check plumbing work for leaks and fix immediately if any are found.

14. Push “extra cycle” momentarily to allow unit to advance to “rapid rinse”.

15. Allow unit to run to drain for the duration of the cycle. 10 minutes.

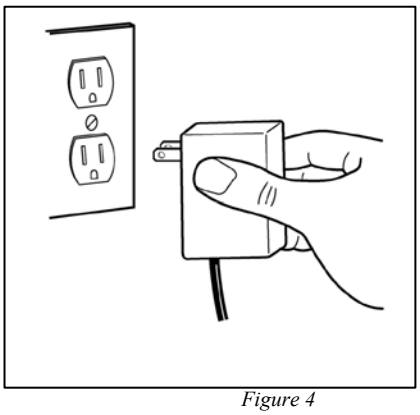


Figure 4

With the valve **In Service**, manually initiate a backwash as the final installation step. This backwash will:

a) Complete the final flushing and filtering of the water system.
b) Re-classify the media bed if the bed was disturbed during shipping.
c) Rinse any remaining residue from lines.

Filter Operation

Backwashing consists of three cycles:

1. Backwash Position
Backwash is a rapid upward flow of water that loosens the media bed and flushes iron particles, dirt and sediments filtered in the bed out to the drain.

2. Fast Rinse Position
Fast Rinse is a fast flow of water down through the media tank that follows a **Backwash**. This flushes all remaining organics from the tank and packs the carbon bed for efficiency.

3. Service
When the filter is **In Service,** it is flowing water through the system and removing objectionable materials from your water.

Troubleshooting

1. Filter Fails To Backwash.	A. Electrical service to unit has been interrupted.	A. Assure permanent electrical service (check fuse, plug, pull chain or switch).
	B. Timer programming bad (improper programming).	B. Check programming and reset as needed.
2. System Delivers un-filtered Water.	A. By-pass valve is open.	A. Close by-pass valve.
	H. Improper programming.	H. Reprogram the control to the proper regeneration type and frequency.
	L. Unit is plumbed backwards.	L. Check that the unit is plumbed correctly.
	N. Water pressure is too low.	N. Line pressure must be at least 20psi.
4. Loss of Water Pressure.	A. Sediment buildup in Media-Guard in water filter.	A. Backwash more often. Change Media-guard
	B. Sediment buildup in carbon in water filter.	B. Change carbon bed.