PARTS INCLUDED:
1 - Carbon Housing, Clear (P/N 2180232) or Carbon Housing, White (P/N 2180283)
1 - Carbon Filter Head Bracket with Filter Head Screws (P/N 0504359)
1 - Carbon Element Kit - Single (P/N 7000669)
1 - Filter Wrench (P/N 2180226)
1 - Installation Instructions (P/N 1010961)

TOOLS:
• Mounting Hardware (Not Provided)
• Drill with Bits
• Tape Measure
• Pipe Wrenches
• Adjustable Wrenches
• Level
• Pipe Dope, Thread Seal Tape, or Thread Sealing Cord
• Screwdriver (Flat Blade and Phillips)
• Two Gallon Bucket
• Fresh 6% unscented liquid chlorine bleach

General

If you experience any problems with these instructions, or if any parts are damaged or missing, contact the factory Technical Service Department at 630-784-1000 or toll free in the U.S. at 877-392-7854.

The Carbon Filter Kit improves the quality of the water by removing chlorine, tastes, and odors. The Carbon Filter Kit must be installed upstream of all consumable water access points.

Equipment Setup

When installing the kit, pay attention to the following guidelines:

• Do NOT install above electrical equipment.
• Allow space below the Carbon Housing for Carbon Element change out.

PLUMBING

NOTE: This Carbon Filter Kit is designed to be used on tap water not to exceed 104°F (40°C) or 100 psig (690 kPa). The kit must be connected to the COLD water line. Do NOT connect the kit to the hot water line.

The Carbon Filter Kit has the following connections:

• Inlet  1” NPT and 1-½” NPT
• Outlet  1” NPT and 1-½” NPT

When making a plumbing connection to the kit, use a back-up wrench on the supporting plumbing. Always use a quality, approved pipe sealant or thread seal tape on the pipe threads. Be careful not to get the pipe sealant inside the pipe when making connections.

DO NOT over tighten the connections. The use of plastic fittings when connecting to the plastic head will reduce the possibility of cracking the head due to over tightening.

If soldered plumbing is used, do NOT apply heat to, or near, the filter head. The use of union (O-ring seal) connections is highly recommended for ease of installation and future servicing.

| CAUTION |
| This equipment must be installed to comply with the basic plumbing code of the Building Officials and Code Administrators, Inc. (BOCA) and the Food Service Sanitation Manual of the Food and Drug Administration (FDA). |

| CAUTION |
| Water pressure must not exceed 100 psig (690 kPa). To reduce water pressure, install a water pressure regulator and set the water pressure to below 100 psig (690 kPa). |

Figure 1. Carbon Filter Kit
INLET WATER PLUMBING

The plumbing leading to the Carbon Filter Kit must be flushed clear of all debris before connecting to the filter head inlet. Hold a bucket at the inlet water line and slowly open the inlet water valve. Allow the pipe to flush until all debris is removed.

MOUNTING THE SYSTEM

Before mounting the Carbon Filter Kit, please consider the items listed below:

- The kit must be mounted with sufficient access for replacing the Carbon Element. The Carbon Housing is 22 inches tall. An additional 3 inches should be allowed below the housing to allow proper access when changing the Carbon Element.
- The kit must be mounted with hardware capable of supporting 20 lbs or more of weight.
- The Mounting Bracket supplied with the kit can be mounted either up or down (Figure 2). The bracket comes with screws for attaching the bracket to the head. These special thread-forming screws should only be used for mounting the head to the bracket.
- The Carbon Head can be mounted with the inlet on the left or on the right. When the inlet is on the left, the Red Pressure Relief Button is at the front. Consult the top of the Carbon Head and note that the inlet connection is labeled “Cartridge Inlet – Bag Outlet” (Figure 2).
- The kit must be installed upstream of all consumable water access points.
- The inlet water should only be connected to the “Cartridge Inlet – Bag Outlet” port on the Carbon Head. The filtered water should only be connected to the “Cartridge Outlet – Bag Inlet” port on the Carbon Head (Figure 2).

The Mounting Bracket should be attached to the Carbon Head first before attaching to the wall.

ATTACHING TO THE INLET

The Cartridge Inlet connection has both 1” NPT female thread and 1-1/2” NPT female thread. Be careful not to over-tighten a fitting into the head. It is recommended that a plastic fitting be used in the inlet. Use a pipe thread sealant that is drinking water-approved for use on plastic fittings.

DO NOT connect the inlet water to the Cartridge Outlet-Bag Inlet port on the Carbon Head.

ATTACHING TO THE FILTERED WATER OUTLET

The head outlet connection has both 1” NPT female thread and 1-1/2” NPT female thread. Be careful not to over-tighten a fitting into the head. It is recommended that a plastic fitting be used in the outlet. Use a pipe thread sealant that is drinking water-approved for use on plastic fittings.

SANITIZING THE SYSTEM AND LINES

The plumbing must be sanitized to eliminate possible contamination that may have occurred during the installation process.

Liquid chlorine bleach (regular bleach, unscented 6% sodium hypochlorite) can be used to sanitize the plumbing. The amount of bleach to use depends on the system installed and the amount of plumbing downstream of the Carbon Kit. Generally 10 drops (one-half ml) of bleach is sufficient to sanitize the housing and associated plumbing.

Make sure the following handling or safety instructions supplied with the bleach.

NOTE: Make sure the Carbon Element is not installed and removed from the Carbon Housing before sanitizing.

1. Direct the water line from the outlet of the Carbon Element Head to a drain.
2. Unscrew the Carbon Housing counterclockwise to remove the housing from the head.
3. Pour the liquid chlorine bleach into the housing.
4. Screw the Carbon Housing (containing the bleach) into the Carbon Element Head. Tighten the housing until it stops. The housing will come to a hard stop at the end of the thread. Use the Filter Wrench if necessary.
5. Slowly turn on the water supply and pressurize the system. Allow water to flow out of the Carbon Housing until the smell of bleach is present.
6. Turn off the water supply and let the system stand without water flow for at least 15 minutes to allow the bleach to sanitize the pipes.
7. After 15 minutes without water flow, turn on the water supply and flush until the presence of bleach is gone.
8. Shut off the water supply and depressurize the system.
Installing or Replacing the Carbon Element

The Carbon Filter Kit contains the Carbon Element. Unwrap the Carbon Element before installing into the Carbon Housing.

**NOTE:** Remove the plastic wrap from the Carbon Element before use. Make sure the end seal gaskets are in place on both ends of the Carbon Element and not retained in the packaging.

1. Unscrew the Carbon Housing counterclockwise to remove the housing from the Carbon Element Head.
2. Inspect the O-ring on the Carbon Housing and replace if it is cracked, twisted, or missing.
3. The O-ring is pre-lubricated at the factory, however it can be lubricated with an approved food grade lubricant if needed. Install the O-ring onto the Carbon Housing.
4. Place the Carbon Element into the Carbon Housing.

**NOTE:** Make sure the end seal gaskets are in place on BOTH ends of the Carbon Element. The gasket is retained on the end of the Carbon Element in the recessed groove. Be careful that the gasket does not fall off when placing the Carbon Element into the Carbon Housing.

5. Screw the Carbon Housing containing the new Carbon Element into the Carbon Element Head. Tighten the housing until it stops. The housing will come to a hard stop at the end of the thread. Use a Filter Wrench if necessary.

### Maintaining the system

**RINSING THE CARBON ELEMENT**

The newly installed Carbon Element must be rinsed before returning the system to operation.

**NOTE:** Direct the system outlet to a drain during this process. Do NOT use the water resulting from rinsing process.

1. Direct water from the outlet to a drain.
2. Turn on the water to the system. Allow water to flow through the Carbon Element and Carbon Housing to flush out trapped air and any carbon fines that may be present. To help remove trapped air from the housing, press and hold the Red Pressure Relief Button on the top of the housing until water just begins to come out the button. Release the button. See Figures 2 and 3.
3. Allow the Carbon Element to rinse for at least 5 minutes.

**NOTE:** Do NOT consume the water used for rinsing the Carbon Element.

4. After 5 minutes of rinsing, shut off the water to the system and redirect the water to service.

**SANITIZING THE SYSTEM AND LINES**

Refer to the section on page 2 for information about sanitizing the system and lines.

**RETURNING SYSTEM TO OPERATION**

After making the connection to the outlet of the system, open a faucet or tap downstream to the Carbon Filter Kit. Allow the pipe to flush to remove any debris.

The system is now ready for use.

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![Figure 3. Components](image-url)