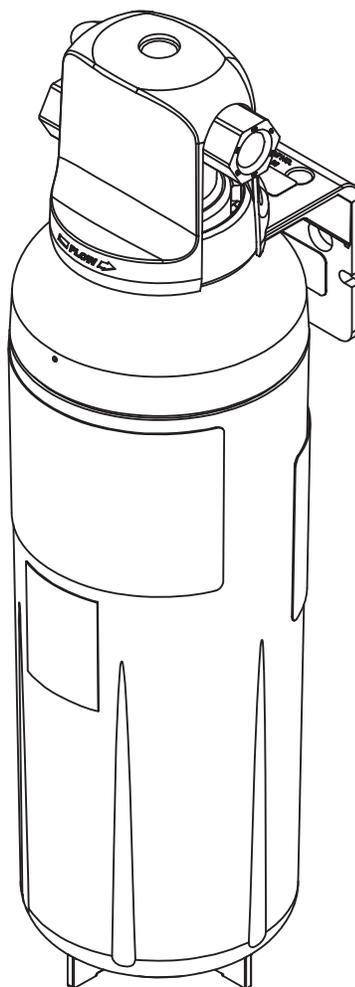


3M™ Water Filtration Products

Installation and Operating Instructions for Water Filtration System DWS160-L



Installer: Please leave this manual with owner/operator.

3M

SAFETY INFORMATION

Read, understand and follow all safety information contained in these instructions prior to installation and use of the DWS160-L water filtration system. Retain these instructions for future reference.

Intended use:

The DWS160-L water filtration system is intended for use in filtering potable water for foodservice equipment and has not been evaluated for other uses. Not for residential applications. The system is typically installed at point of use, and must be installed by a qualified professional installer according to these installation instructions.

EXPLANATION OF SIGNAL WORD CONSEQUENCES	
 WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury and/or property damage.
CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in property damage.

 WARNING
To reduce the risk associated with choking: <ul style="list-style-type: none">• Do not allow children under 3 years of age to have access to small parts during the installation of this product.
To reduce the risk associated with the ingestion of contaminants: <ul style="list-style-type: none">• 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 water that may contain filterable cysts. EPA Establishment #070595-CT-001
To reduce the risk associated with hazardous voltage due to an installer drilling through existing electric wiring or water pipes in the area of installation: <ul style="list-style-type: none">• Do not install near electric wiring or piping which may be in path of a drilling tool when selecting the position to mount the system bracket.

CAUTION
To reduce the risk associated with property damage due to water leakage: <ul style="list-style-type: none">• Read and follow Use Instructions before installation and use of this system.• Installation and use MUST comply with all state and local plumbing codes.• Protect from freezing, remove filter cartridge when temperatures are expected to drop below 40° F (4.4° C).• Do not install systems in areas where ambient temperatures may go above 110° F (43.3° C).• Do not install on hot water supply lines. The maximum operating water temperature of this filter system is 100°F (37.8°C).• Do not install if water pressure exceeds 125 psi (862 kPa). If your water pressure exceeds 80 psi (552 kPa), you must install a pressure limiting valve. Contact a plumbing professional if you are uncertain as to how to check your water pressure.• Do not install where water hammer conditions may occur. If water hammer conditions exist you must install a water hammer arrester. Contact a plumbing professional if you are uncertain how to check for this condition.• Where a backflow prevention device is installed on a water system, a device for controlling pressure due to thermal expansion must be installed.• Do not use a torch or other high temperature sources near filter system, cartridges, plastic fittings or plastic plumbing.

CAUTION

- On plastic fittings, never use pipe sealant or pipe dope. Use PTFE thread tape **only**, pipe dope properties may deteriorate plastic.
- Take care when using pliers or pipe wrenches to tighten plastic fittings, as damage may occur if over-tightening occurs.
- **Do not** install in direct sunlight or outdoors.
- **Do not** install near water pipes which will be in path of a drilling tool when selecting the position to mount the bracket.
- Mount filter in such a position as to prevent it from being struck by other items used in the area of installation.
- Ensure that the location and fasteners will support the weight of the system when installed.
- Ensure all tubing and fittings are secure and free of leaks.
- Do not install unit if collet is missing. Contact your sales representative if collets are missing from any fittings.
- The disposable filter cartridge **MUST** be replaced every 12 months, at the rated capacity or sooner if a noticeable reduction in flow rate occurs.

IMPORTANT NOTES

- Failure to follow instructions will void warranty.
- Allow a minimum of 3" (7.6 cm) clear space under filter to facilitate cartridge change.
- Install with the inlet and outlet ports as labeled. Make sure not to reverse connections.
- Some local codes may require the use of a licensed plumber or certified installer when disrupting a potable water line.

3M™ Water Filtration Products

DWS160-L System Part Number 56272-01

Specifications

Inlet Size: 3/8" NPT Fitting

Outlet Size: 3/8" NPT Fitting

Temperature Range: 40-100°F (4.4-37.8°C)

Pressure Range: 25-125 psi (172-862 kPa)

Dimensions - (16.25"H x 4"D) (41.3 cm x 10.2cm)

Parts Included

Filter Replacement Cartridge-Part Number 56134-44

Fixed Flow Control Head/Bracket Assembly-Part Number 62130-36

Vent Tubing Included in head assembly.

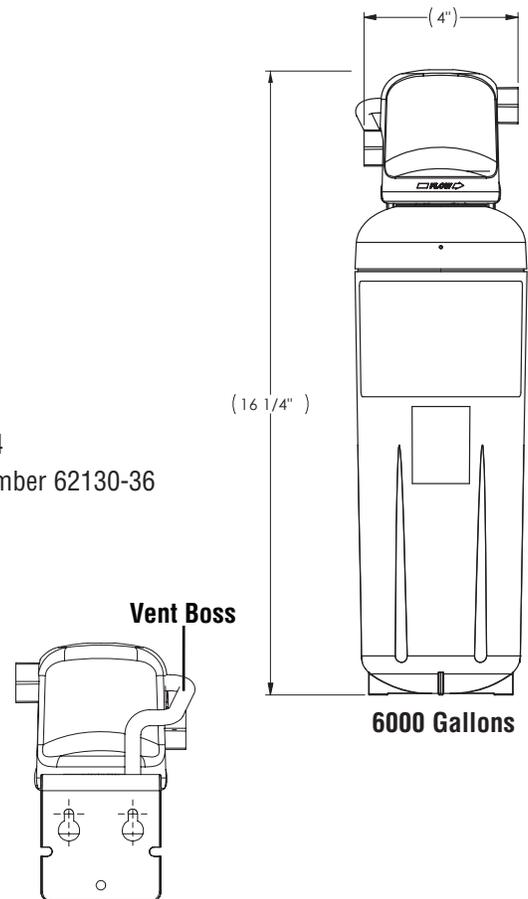


Figure 1.A

System Installation

1. Determine Mounting Location

Warning: Before drilling mounting holes, locate any hidden electrical wires or plumbing behind the mounting surface. Note adjacent equipment which may interfere with system fastening screws.

- A. Fasten mounting bracket to mounting surface (screws not included). **(Per Section 3 below)**
Important: Allow a minimum of 3" (7.6 cm) free space underneath system required to change filter.
- B. Remove the cap from cartridge. Inspect the cartridge for any damage.
- C. Make sure the o-rings are present and positioned correctly in grooves. Moisten the o-rings with water.
- D. Connect the replacement cartridge to head/bracket assembly. Align tabs with head/bracket assembly and push up until cartridge stops, then rotate 1/4 turn to the right to secure.
- E. Attach vinyl vent tubing (provided) to vent boss (Fig. 1.A) by pushing the tube onto the boss until it is snug.
- F. Run tubing from vent boss through one of the tubing holes in bracket. Run tubing to drain or bucket during cartridge change-out.

2. Cold Water Supply

Warning: Make sure cold water supply valve is turned off prior to installation.

Note: A proper length of 3/8" O.D. polyethylene or soft copper tubing is required for installation (not included). Installation must comply with existing state and local plumbing codes.

Note: Additional fittings may be required.

Note: Arrange tubing so that there are no sharp bends. Leave some "play" in the tubing for ease of servicing, then cut tubing to the desired length. Shorter tubing lengths ensure better flow rates.

3. Mount System

- A. Select fasteners (not included) and tools appropriate for the installation location. (woodbeam, concrete, etc.) **Warning: the location and fasteners must support the weight of the system when full of water.**
- B. Draw a line using a level on the mounting surface.
- C. Mark the locations for the fasteners either by measuring the distance between the bracket holes or using the bracket itself.
- D. Drill holes for the fasteners.
- E. Allow 1/4"-3/8" (6-10mm) of each fastener to protrude from the surface.
- F. Install the head and bracket onto the fasteners.
- G. Tighten fasteners.
- H. Install inlet (left) and outlet (right) piping. Be sure to use PTFE tape. **Important: Hexagon sockets on the head do not rotate. Do Not Overtighten.**

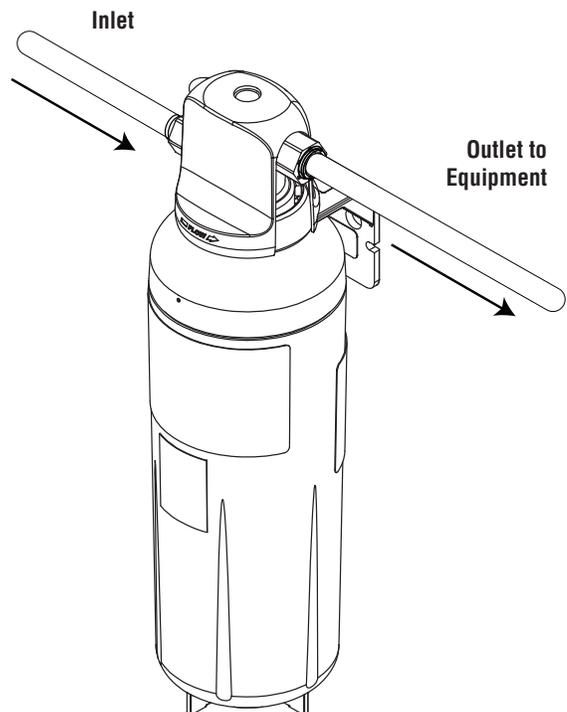


Figure 2.A

4. Test System

- A. Open cold water supply valve.
- B. The system will pressurize. Check for leaks. If any leaks are present, refer to troubleshooting section.

5. Flush Filter

- A. Make sure cold water supply is turned on.
- B. Run water through the filter to flush in accordance with Performance Data Sheet. Any air left in the system may temporarily cause the water to be cloudy.
- C. Your system is now ready for service.

Troubleshooting Guide

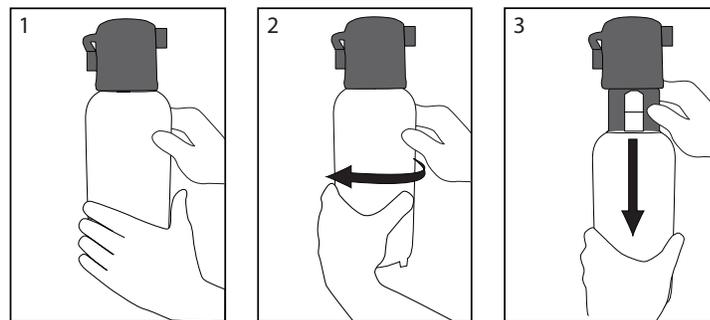
Water does not flow from the filter

Check to see if the original water supply valve is open, allowing water to flow to the filter. Also, check for crimps or sharp bends in tubing. Check maintenance schedule for cartridge change-out.

Water appears cloudy or air comes out of filter faucet

Flush filter to remove any carbon fines or trapped air in the filter and water lines. Longer flushing may be required to eliminate air bubbles completely. Refer to Performance Data Sheet or Flush Instruction Card for proper flush time.

Replacement Cartridge Change-out Instructions For Water Filtration System Model: **DWS160-L**



- A. Grasp filter (see figures 1 & 2) and turn to the left (counterclockwise) until filter comes to a complete stop (water automatically turns off). Water may leak momentarily from vent tube. This is normal. Gently pull filter downward to remove (see figure 3).
- B. Remove sanitary protective cap from new replacement cartridge.
- C. Ensure both o-rings are present on the replacement filter and are seated into grooves; moisten o-rings with water. **DO NOT** use any petroleum products to lubricate the o-rings.
- D. Insert replacement filter into filter head assembly. Turn replacement filter one quarter turn to the right (clockwise) until it stops. When fully engaged, the top surface of the filter will be flush with the bottom of the filter head assembly.
- E. Open cold water supply valve. Run water through the filter to flush in accordance with Performance Data Sheet. Any air left in the system may temporarily cause the water to be cloudy. While system is flushing, check for leaks. Repair any leaks as needed before continuing.
- F. System is now under pressure and ready for use.

Limited Warranty:

3M Purification Inc. warrants DWS160-L only to be free from defects in material and workmanship for five (5) years from the date of purchase. The disposable filter cartridge is warranted from defects in material and workmanship for a period of one (1) year from the date of purchase. This warranty does not cover failures resulting from abuse, misuse, alterations or damage not caused by 3M Purification Inc. or failure to follow installation and use instructions. No warranty is given as to the service life of any filter cartridge or membrane as it will vary with local water conditions and consumption. **3M PURIFICATION INC. MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOMER OR USAGE OF TRADE.** If the Product fails to satisfy this Limited Warranty during the warranty period, 3M Purification Inc., at its option, will replace the Product or refund your Product purchase price. This warranty does not cover labor. **The remedy stated in this paragraph is Customer's sole remedy and 3M Purification Inc.'s exclusive obligation.**

This warranty gives you specific legal rights, and you may have other rights which may vary from state to state, or country to country. For any warranty questions, please call 866.990.9785 or mail your request to: Warranty Claims, 3M Purification Inc., 400 Research Parkway, Meriden, CT 06450. Proof of purchase (original sales receipt) must accompany the warranty claim, along with a complete description of the Product, model number and alleged defect.

Limitation of Liability:

3M Purification Inc. will not be liable for any loss or damage arising from this 3M Purification Inc. product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states and countries do not allow the exclusion of limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

