

3M™ Water Filtration Products

- Spec Number _____
- Quantity _____

3M™ HWS050

Warewashing Water Softener Systems

The 3M™ HWS series of warewashing water softener systems are designed to reduce spotting on dishes, glasses and flatware, as well as reduce scale build-up on dishwasher spray nozzles and compartments. A high-capacity, high-temperature-resistant resin provides the ability to remove calcium and magnesium minerals that cause white spots on dishware. This “softened” water also reduces hard scale build-up on dish machine walls and nozzles, which can reduce performance and equipment life. Softened water also allows detergents to work more efficiently, reducing excess chemical consumption.

Benefits

- Space-saving design allows unit to fit directly under dishwasher table for convenient storage.
- Corrosion-resistant vinylester resin tank offers reduced deterioration and long-term performance for temperatures up to 150°F (65.6°C).
- Safety brine valve ensures overflow prevention in the event of a power outage.
- 12-day timer-controlled regeneration allows system to clean and regenerate automatically without daily monitoring or interruption of service.
- 3/4" 316SS bypass with FIP connections as standard.
- 115 VAC to 24 VAC transformer is energy efficient.

Product Specifications

Model Number	Part Number	Style	Capacity	System Flow Rate	Application
HWS050	HWS050	Vinylester Tank 3/4" FIP Connections 115 VAC to 24 VAC transformer	16,000 grains per tank	5 gpm (18.9 ipm)	150°F (65.6°C) water, maximum



HWS050

Rated for 16,000 grains per tank, 5 gpm (18.9 lpm) service flow, 150°F (65.6°C)

Physical Specifications

System

- 3/4" female NPT connections.
- Maximum operating pressure of 100 psi (689 kPa) and operating temperature of 150°F (65.5°C).
- 16,000 grain capacity at 5 gpm (18.9 lpm) service flow rate for HWS050.

Control Valve

- Lead-free brass, 5 cycle.
- Timer controlled.
- 115 VAC to 24 VAC transformer.

Resin Tank

- Vinylester.
- Heat-resistant, high-capacity ion exchange.

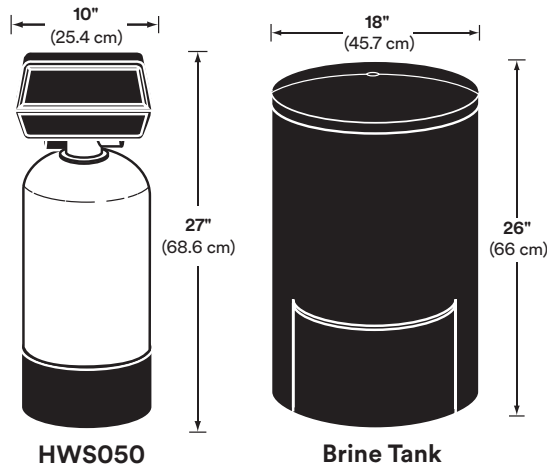
Brine Tank

- High-density polyethylene.
- Includes brass safety valve.
- Holds up to 230 lbs. (104.3 kg) of salt.

Warning: To reduce the risk associated with the ingestion of contaminants

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

3M Separation and Purification Sciences Division recommends regularly scheduled maintenance and replacement of the filter cartridge(s) in order for the product to perform as advertised/sold. 3M Separation and Purification Sciences Division shall not be liable for system failures due to improper maintenance.



HWS050

- Spec Number _____
- Quantity _____
- Model Number _____
- Part Number _____

Important: Installation Tips

These installation tips are for informational purposes only and are not intended to be used as actual installation instructions. **CAUTION:** To reduce the risk associated with property damage due to water leakage:

- **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 system when temperatures are expected to drop below 40°F (4.4°C).
- **Do not exceed maximum water temperature.** The maximum operating water temperature of this filter system is 150°F (65.5°C).
- **Do not install** if water pressure exceeds 100 psi (689 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 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.

PLEASE NOTE: The Ordering Guide above is for reference only. Not all combinations are available.

Please consult with your 3M Representative to determine the appropriate part number for your application.

Limitation of Liability

3M Separation and Purification Sciences Division warrants HWS050 will be free from defects in material and manufacture for the following periods from the date of purchase:

- One (1) year on the entire unit
- Five years on control valve body only (does not include internal or external components)
- Five years on mineral tank only (does not include internal components)
- Five years on salt storage container and components.

This warranty does not cover failures resulting from abuse, misuse, alteration or damage not caused by 3M Separation and Purification Sciences Division or failure to follow installation and use instructions. No warranty is given as to the service life of any filter cartridge, as it will vary with local water conditions and water consumption. **3M SEPARATION AND PURIFICATION SCIENCES DIVISION 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 this Product fails to satisfy this Limited Warranty during the warranty period, 3M Separation and Purification Sciences Division will replace the Product or refund your Product purchase price. This warranty does not cover labor. **The remedy stated in this paragraph is the Customer's sole remedy and 3M Separation and Purification Sciences Division's exclusive obligation. For additional information, see the entire Limited Warranty located in the product Installation and Operating Instruction Manual**

Limitation of Liability: 3M Separation and Purification Sciences Division will not be liable for any loss or damage arising from this 3M Separation and Purification Sciences Division 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 or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.



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