

SPEC# _____

QUANTITY _____

application:

WAREWASHING EQUIPMENT

models:

HWS050 & HWS100



HWS050

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

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.

PRODUCT 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

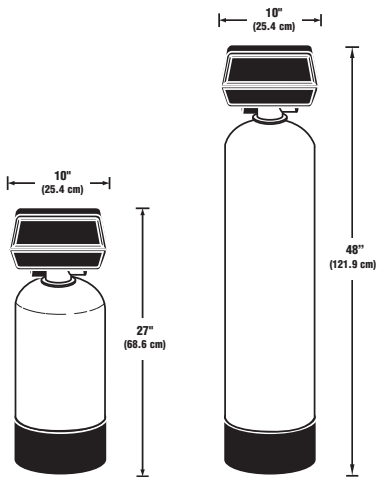
Model Number	Part Number	Style	Capacity	System Flow Rate	Application
HWS050	HWS050	Vinylester Tank 3/4” FIP Connections 115 VAC to 24 VAC transformer	16,000 grains per tank	5 gpm (18.9 lpm)	150°F (65.6°C) water, maximum
HWS100	HWS100		32,000 grains per tank	8.5 gpm (32.2 lpm)	

HWS050 & HWS100

3M™ Water Filtration Products

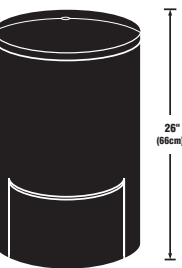
SPEC# _____
 QUANTITY _____
 MODEL NUMBER _____
 PART NUMBER _____

PHYSICAL SPECIFICATIONS



HWS050

HWS100



Brine Tank
for Both Systems

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

LIMITED WARRANTY

3M Purification Inc. warrants HWS050 and HWS100 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 mineral tank only (does not include internal components)
- Five years on control valve body only (does not include internal or external 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 Purification Inc. 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 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 this Product fails to satisfy this Limited Warranty during the warranty period, 3M Purification Inc. 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 Purification's exclusive obligation. For additional information, see the entire Limited Warranty located in the product Installation and Operating Instruction Manual.

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 or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

System:

- 3/4" female NPT connections.
- Maximum operating pressure of 100 psi (689 kPa) and operating temperature of 100°F (37.8°C).
- 16,000 grain capacity at 5 gpm (18.9 lpm) service flow rate for HWS050.
- 32,000 grain capacity at 8.5 gpm (32.2 lpm) service flow rate for HWS100.

Control Valve:

- Lead free brass, 5 cycle.
- Timer controlled.
- 3/4" 316SS bypass, FIP.
- 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.

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 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 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.



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