

## 3M HF20-A020-S-SR

# 3M Aqua-Pure HF20-A020-S-SR Carbonless Water Filter Replacement Cartridge User Manual

Model: HF20-A020-S-SR

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your 3M Aqua-Pure HF20-A020-S-SR Carbonless Water Filter Replacement Cartridge. Please read this manual thoroughly before use to ensure optimal performance and safety.

The 3M Aqua-Pure HF20-A020-S-SR is designed for commercial ice machines, aiming to reduce sediment, bad taste and odor, cyst, and scale. Its Sanitary Quick Change (SQC) design facilitates cartridge replacement without direct contact with the filter media.

## 2. SAFETY INFORMATION

Always adhere to local plumbing codes and regulations during installation. Ensure water supply is turned off before beginning any installation or maintenance procedures. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

**Warning:** Failure to follow these instructions could result in property damage or personal injury.

**Caution:** This filter is designed for cold water applications only. Do not exceed recommended operating pressure and temperature.

## 3. PRODUCT OVERVIEW

The 3M Aqua-Pure HF20-A020-S-SR filter cartridge is a key component in maintaining water quality for ice machines. It features a carbonless design specifically engineered to inhibit scale build-up and reduce bacteria.



Figure 3.1: The 3M Aqua-Pure HF20-A020-S-SR filter cartridge, showing its cylindrical shape and connection points.



Figure 3.2: An example of the 3M Aqua-Pure filter system, including the cartridge and a pressure gauge for monitoring system performance.

## Key Features:

- Carbonless design to prevent biofilm build-up.
- Multi-zone pharmaceutical grade membrane with 0.2-micron absolute rating.
- Reduces 99.99% of waterborne bacteria.
- Reduces particulate, silt, and particulates down to 0.2 microns.
- Built-in scale inhibitor to reduce lime scale build-up.
- Sanitary Quick Change (SQC) design for easy, contact-free cartridge replacement.
- Certified to NSF Standard 42 for structural integrity, materials safety, and particulate reduction.
- Certified to NSF Standard 53 for cyst reduction.
- WQA certified to WQA/ASPE/ANSI S-803 for Sustainability Attributes.

## 4. SETUP AND INSTALLATION

This section outlines the general steps for installing the HF20-A020-S-SR replacement cartridge. Refer to your specific system's installation manual for detailed instructions.

1. **Turn off Water Supply:** Locate the main water shut-off valve to the ice machine or filter system and turn it off.
2. **Depressurize System:** Open a downstream faucet or valve to relieve pressure in the system.
3. **Remove Old Cartridge:** Twist the old cartridge counter-clockwise approximately a quarter turn until it disengages from the filter head. Pull the cartridge straight down and remove it.
4. **Prepare New Cartridge:** Remove the protective cap from the new HF20-A020-S-SR cartridge.
5. **Install New Cartridge:** Align the new cartridge with the filter head. Push the cartridge up into the head and twist clockwise approximately a quarter turn until it locks securely into place. Ensure the cartridge is fully seated.
6. **Restore Water Supply:** Slowly turn on the main water supply valve. Check for leaks around the filter head.
7. **Flush System:** Allow water to flow through the system for several minutes (e.g., 5-10 minutes) to flush out any air or carbon fines.
8. **Check for Leaks:** Visually inspect all connections for any signs of leaks.

*Note:* It is recommended to replace the filter cartridge every 6-12 months, or sooner if a noticeable drop in water flow or quality occurs.

## 5. OPERATING INSTRUCTIONS

Once installed, the 3M Aqua-Pure HF20-A020-S-SR operates automatically as water flows through your ice machine system. No user interaction is required for its filtration function.

Monitoring Performance:

- **Water Flow:** A significant decrease in water flow to your ice machine may indicate that the filter cartridge is nearing the end of its service life and requires replacement.
- **Ice Quality:** Changes in the taste, odor, or appearance of ice may also signal that the filter needs to be replaced.
- **Pressure Gauge (if applicable):** If your system includes a pressure gauge, monitor the pressure drop across the filter. A substantial drop in pressure indicates clogging and the need for replacement.

6. MAINTENANCE

Regular maintenance, primarily cartridge replacement, is crucial for the continued effectiveness of your 3M Aqua-Pure filter.

Cartridge Replacement:

The HF20-A020-S-SR cartridge should be replaced at least every 6 to 12 months, or when capacity is reached, or when a noticeable reduction in flow rate occurs. Refer to Section 4 for detailed replacement steps.

System Cleaning:

Periodically inspect the filter head and surrounding area for any debris or build-up. Clean with a mild soap and water solution if necessary. Do not use abrasive cleaners.

7. TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Reduced Water Flow	Clogged filter cartridge; Air in system; Partially closed shut-off valve.	Replace filter cartridge; Flush system to remove air; Ensure all valves are fully open.
Leaks at Filter Head	Improperly seated cartridge; Damaged O-rings; Cracked filter head.	Ensure cartridge is fully twisted and seated; Inspect and replace O-rings if damaged; Contact 3M support if filter head is cracked.
Poor Ice Quality (Taste/Odor)	Expired filter cartridge; Contamination in ice machine.	Replace filter cartridge; Clean and sanitize the ice machine according to its manufacturer's instructions.

If troubleshooting steps do not resolve the issue, contact 3M customer support.

8. SPECIFICATIONS

Attribute	Value
Model Number	HF20-A020-S-SR
Product Dimensions	4.5"D x 4.5"W x 17.5"H (11.4 cm D x 11.4 cm W x 44.5 cm H)
Item Weight	2.6 Pounds (1.18 kg)

Attribute	Value
Material	Polypropylene (PP)
Manufacturer	3M
Country of Origin	USA
Filtration Rating	0.2 Micron (absolute)
Certifications	NSF Standard 42, NSF Standard 53, WQA/ASPE/ANSI S-803
Product Benefits	Inhibits Lime-Scale Growth, Reduces Microbial Cysts, Removes Bacteria

## 9. WARRANTY INFORMATION

For specific warranty details regarding the 3M Aqua-Pure HF20-A020-S-SR filter cartridge, please refer to the warranty documentation provided with your original purchase or visit the official 3M website. Warranties typically cover defects in materials and workmanship under normal use and service.

*Note:* Use of non-3M replacement cartridges may void your warranty.

## 10. SUPPORT AND CONTACT

If you require further assistance, have questions about your 3M Aqua-Pure product, or need to report an issue, please contact 3M customer support.

**Manufacturer:** 3M

**Website:** [www.3m.com](http://www.3m.com)

For product-specific support, you may also visit the [3M Industrial Store on Amazon](#).