

Premium Performance Cartridges



HF 160-CL

Ideal for cold beverage applications

The HF160-CL is a single cartridge system that is ideal for cold beverage applications. It has a capacity of 4,700 gallons at 2.2 gpm and is perfect for post mix machines. The HF160-CL can also be used in hot beverage applications in low hardness water. An optional pressure gauge can be added to the system.

HF160-CLS

Ideal for hot beverages and ice applications

The HF160-CLS is the same as the HF160-CL but also incorporates a time-released scale inhibitor that helps to reduce the potential of hard scale build up in coffee and hot tea applications. It is the ideal solution for hot beverages and ice applications.

Ideal for Multi-Equipment Applications

The HF60-CL cartridges can be used in any of the 3M™ Water Filtration Products High Flow Series heads and manifolds. Dual Port and Dual Flow manifolds supply different water qualities for multi-equipment applications. When used with the HF60-CL cartridges, these systems provide Recipe Quality Water™ to ice, cold beverages, and coffee.



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3M™ Water Filtration Products
Chloramine Reduction Systems

HF160-CL
HF160-CLS



**Advanced
technology**

for **great tasting
Beverages**





3M technology makes **Hot & Cold Beverages** taste better

Chlorine is the most common disinfectant used in municipal water supplies. However chlorine can react with certain organic materials in water to form a compound called trihalomethanes (TTHM's). Long-term exposure to these harmful by-products has been linked to an increased risk of cancer. Additionally, chlorine can lose its disinfecting effectiveness over time in longer water distribution pipes.

To address these issues, many municipalities have switched to an alternative method of disinfection using a process called chloramination. Chloramination is the process of adding ammonia before or after the addition of chlorine to potable water. It is an attractive alternative to chlorine because it does not react as readily with organic materials to form TTHM's. Additionally, because chloramines are more chemically stable than chlorine, they do not dissipate quickly and therefore, are longer lasting in the distribution system.

Today, more than one in four U.S. water utilities use chloramines.

The use of chloramines is not new. In fact, chloramines have been used by water utilities for nearly 90 years. However, its use has increased in recent years. Today, more than one in four U.S. water utilities use chloramines.

Water that contains chloramines can have a negative impact on your bottom line.

Water that contains chloramines and meets EPA regulatory standards is considered safe for drinking and cooking, however it can have a negative impact on your bottom line.

Chloramines are known to impart a bad taste in beverages. This problem affects both hot and cold beverages but tends to be most pronounced in diet beverages. Poor beverage quality may result in decreased repeat sales and lost profits.

Furthermore, chloramines may react with metal, plastic and rubber materials, potentially causing premature foodservice equipment failure. The result can mean increased equipment downtime and service costs.

The 3M Solution

Efficient and effective chloramine reduction for the foodservice industry

The removal of chloramines from drinking water is much more difficult than removing chlorine. Typical water treatment technologies are ineffective for removing chloramines.

By using premium state-of-the-art catalytic carbon in a carbon block formulation, research scientists at 3M have developed an extremely efficient and effective method for removing chloramines from drinking water. 3M surrounds this carbon block with a pleated pharmaceutical grade membrane resulting in a high performance water filter cartridge. We call this technology Integrated Membrane Pre-Activated Carbon Technology (“I.M.P.A.C.T.”). Chloramine reduction cartridges effectively reduce:

- Chloramines
- Cryptosporidium and Giardia Cysts
- Bacteria
- Particulate, silt and ferric iron
- Chlorine taste & odors

The I.M.P.A.C.T. media is then encapsulated in a polypropylene housing, allowing for a sanitary quick change (SQC) design. Cartridge change-outs are as easy as changing a light bulb!



HF60-CL Chloramine reduction cartridges feature:

1. Polypropylene design.
2. Pleated membrane helps provide cyst and bacteria protection, including superior particulate holding capabilities with minimal pressure drop.
3. Premium carbon block technology.
4. Enhanced pleated membrane has up to six times the surface area of competitive products.

