

**3M** Science.  
Applied to Life.™

# 3M technology makes a difference

3M™ High Flow Series Water Filtration Products with Integrated Membrane Pre-Activated Carbon Technology (“I.M.P.A.C.T.”) for ice and cold beverages





## Cold Beverage and Multi-Applications

### The Challenge:

Excess particulates can shorten the service length of expensive parts of beverage machines. High particulate matter and excess chlorine and chloramine residual can affect the look and taste of beverages.

### The Solution:

Sanitary Quick Change designed systems from 3M™ High Flow Series Water Filtration Products reduce particulates and chlorine taste and odor.



### Filtration fact:

#### Great tasting beverages are better for business.

Did you know that more than 55% of Americans on municipal water supplies are using water treated with chloramines? While helpful in treating water, if left untreated, chemicals like chloramines and chlorine can contribute to odors or off-tastes in your cold beverages. With the right 3M™ High Flow Series Water Filtration System, you can address chloramines, particulate, chlorine taste and odor and more, creating the consistent, quality experience your customers expect—and help protect the service life of your beverage equipment.

\*3M 2014 Study.



## Ice

### The Challenge:

Excess sediment, chlorine residual and scale build-up can clog distribution tubes, cause chlorine smell and corrosion, and increase maintenance costs.

### The Solution:

3M's High Flow Series Water Filtration Products for ice applications provide built-in scale inhibition as well as chlorine taste and odor and particulate reduction. This can help to reduce service calls and downtime—increasing bottom line profitability.

### Benefits that go beyond great-tasting ice.

- ▶ Helps extend the life of pumps, valves and seals by reducing corrosion and sediment
- ▶ Experience less downtime and fewer service calls with built-in scale inhibitor
- ▶ Eliminate need for a separate prefilter
- ▶ Achieve higher throughputs and longer lifetimes with 3M™ High Flow Series Cyst Rated Cartridges featuring Integrated Membrane Pre-Activated Carbon Technology (“I.M.P.A.C.T.”)

# Cold Beverage Water Filtration Systems

Keep your revenue streams flowing with great tasting beverages and happy customers.

## 3M™ High Flow Series Water Filtration Products provide:

3M High Flow Series Water Filtration Products include the option of replacement filters featuring Integrated Membrane Pre-Activated Carbon Technology (“I.M.P.A.C.T.”) that provides excellent cartridge life and economy.

- ▶ Up to 12-month cartridge life
- ▶ Fast and easy cartridge change-outs with Sanitary Quick Change (SQC) encapsulated cartridge design
- ▶ Direct or easily adaptable connections to existing plumbing lines
- ▶ Certification to NSF Standard 53 for cyst reduction
- ▶ Reduction of 99.99 percent of waterborne bacteria<sup>3</sup>
- ▶ Wide range of cartridge sizes to help address your specific needs. Offering our compact HF20-I cartridge series to our large capacity HF90 cartridge series.

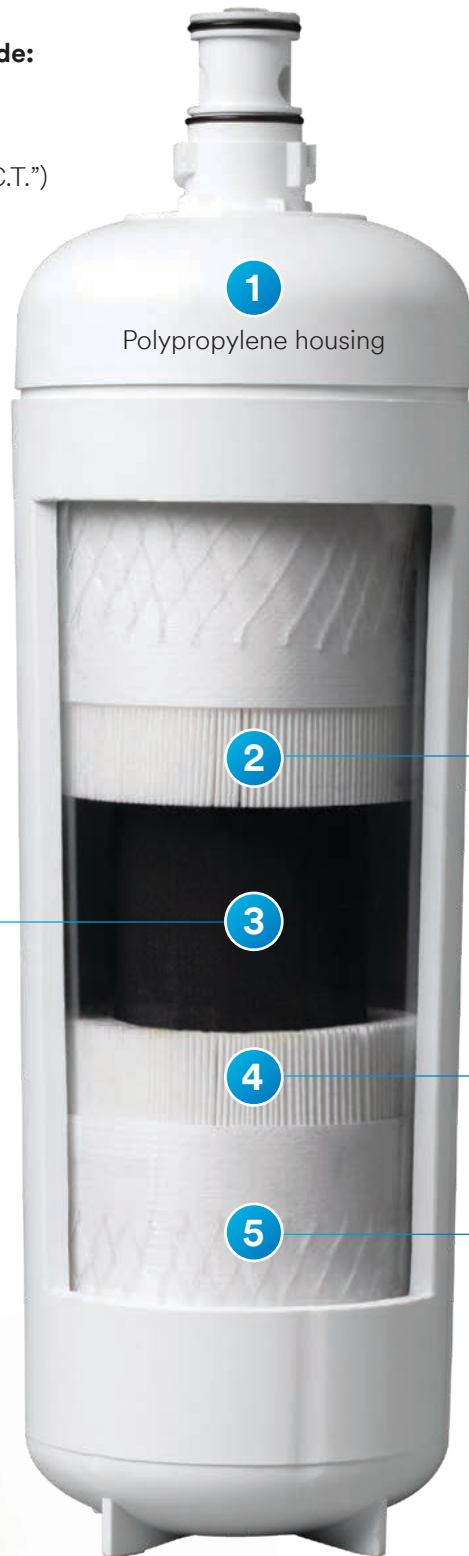
HF90 carbon block technology **has more than 4X** the chlorine taste and odor reduction capacity of the leading competitor’s pre-coat filter



<sup>1</sup> Filters featuring the Integrated Membrane Pre-Activated Carbon Technology (“I.M.P.A.C.T.”) media can clearly be identified by the (“I.M.P.A.C.T.”) icon on the product label.

<sup>2</sup> Certified to NSF Standard 53 for Cyst Reduction. Based on testing using *Cryptosporidium parvum* oocysts.

<sup>3</sup> As demonstrated with 99.99% reduction of surrogate organism *E. coli* (ATCC 11229) and *P. fluorescens* (ATCC 49642) in manufacturer’s lab test.



Media with pleated membrane design<sup>1</sup> helps provide cyst<sup>2</sup> and bacteria<sup>3</sup> reduction and excellent sediment holding capabilities with minimal pressure drop

Pleated membrane media in HF90 has **approximately 6X** the surface area of leading competitor’s filter

HF40, HF60 and HF90 cartridge models feature a 5 micron prefilter wrap





Image featuring 3M™ High Flow Series Water Filtration Cartridge, Model HF90



## Available on select models.

3M’s long standing commitment to sustainable development through environmental protection, social responsibility and economic progress has resulted in 3M Purification achieving Water Quality Association (WQA) Sustainability Certification under the WQA Product Sustainability standards.

## 3M™ High Flow Series Cyst Rated Cartridges

	Model/Part	3M ID	SAP ID	Flow Rate (GPM)	Capacity	Sediment Reduction	Reduction Claims	Applications/Sizing
	<b>HF90</b> 5613503	70020020155	7000001667	5 gpm (18.9 lpm)	54,000 gals. (204,412 lit.)	0.2 Micron Nominal	Bacteria <sup>1</sup> , Particulate, Chlorine Taste & Odor, Cyst <sup>2</sup>	Serves carbonator and cold beverage dispensers up to 5 gpm (18.9 lpm) demand flow rate
	<b>HF90-S</b> 5613505	70020020163	7000042826	5 gpm (18.9 lpm)	54,000 gals. (204,412 lit.)	0.2 Micron Nominal	Bacteria <sup>1</sup> , Particulate, Chlorine Taste & Odor, Cyst <sup>2</sup> , Scale Inhibitor <sup>3</sup>	For commercial cubers up to 2,170 lbs. (984.2 kg) or commercial flakers up to 3,593 lbs. (1,630 kg)
	<b>HF60</b> 5613403	70020020122	7000001666	3.34 gpm (12.6 lpm)	35,000 gals. (132,489 lit.)	0.2 Micron Nominal	Bacteria <sup>1</sup> , Particulate, Chlorine Taste & Odor, Cyst <sup>2</sup>	For commercial cubers up to 1,450 lbs. (657.7 kg) and commercial flakers up to 2,400 lbs. (1088.6 kg) For dual carbonator dispensers
	<b>HF60-S</b> 5613405	70020116706	7000001752	3.34 gpm (12.6 lpm)	35,000 gals. (132,489 lit.)	0.2 Micron Nominal	Bacteria <sup>1</sup> , Particulate, Chlorine Taste & Odor, Cyst <sup>2</sup> , Scale Inhibitor <sup>3</sup>	For commercial cubers up to 1,450 lbs. (657.7 kg) and commercial flakers up to 2,400 lbs. (1088.6 kg)
	<b>HF40</b> 5613303	70020020114	7000001665	2.1 gpm (7.9 lpm)	25,000 gals. (94,635 lit.)	0.2 Micron Nominal	Bacteria <sup>1</sup> , Particulate, Chlorine Taste & Odor, Cyst <sup>2</sup>	For single high flow carbonator dispensers
	<b>HF40-S</b> 5613305	70020121417	7000050976	2.1 gpm (7.9 lpm)	25,000 gals. (94,635 lit.)	0.2 Micron Nominal	Bacteria <sup>1</sup> , Particulate, Chlorine Taste & Odor, Cyst <sup>2</sup> , Scale Inhibitor <sup>3</sup>	For commercial cubers up to 1,000 lbs. (453.6 kg) and commercial flakers up to 1,800 lbs. (816.5 kg)
	<b>HF20-I</b> 5635428	70020352327	7100233882	1.67 gpm (6.3 lpm)	14,000 gals. (52,996 lit.)	0.2 Micron Nominal	Bacteria <sup>1</sup> , Particulate, Chlorine Taste & Odor, Cyst <sup>2</sup>	For single carbonator dispensers – low volume
	<b>HF20-SI</b> 5636429	70020352335	7100233868	1.67 gpm (6.3 lpm)	14,000 gals. (52,996 lit.)	0.2 Micron Nominal	Bacteria <sup>1</sup> , Particulate, Chlorine Taste & Odor, Cyst <sup>2</sup> , Scale Inhibitor <sup>3</sup>	For commercial cubers up to 750 lbs. (340.2 kg) and commercial flakers up to 1,200 lbs. (544.3 kg)

<sup>1</sup> As tested with *E.Coli* ATCC (11229). As tested and verified by manufacturer's laboratory.

<sup>2</sup> Based on the use of *Cryptosporidium parvum* oocysts.

<sup>3</sup> As tested and verified by manufacturer's laboratory.

**Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

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