

**Cold hard fact:
Great water
makes great ice.**

Keep your ice machine and cash register humming with water filtration you can count on. Scale build-up and sediment particles put your ice machine at risk for breakdowns, increased maintenance and inefficient operation—and could cause profits and customer experiences to suffer. Consistently give your customers cleaner, clearer, great-tasting ice with water filtration systems from 3M.



The 3M™ High Flow Series Products provide:

3M High Flow Series 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.

- ▶ Single-cartridge flow rates and capacities previously available only with three- or four-cartridge systems¹
- ▶ 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 bacteria³
- ▶ **Recipe Quality Water™** for all commercial foodservice applications

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



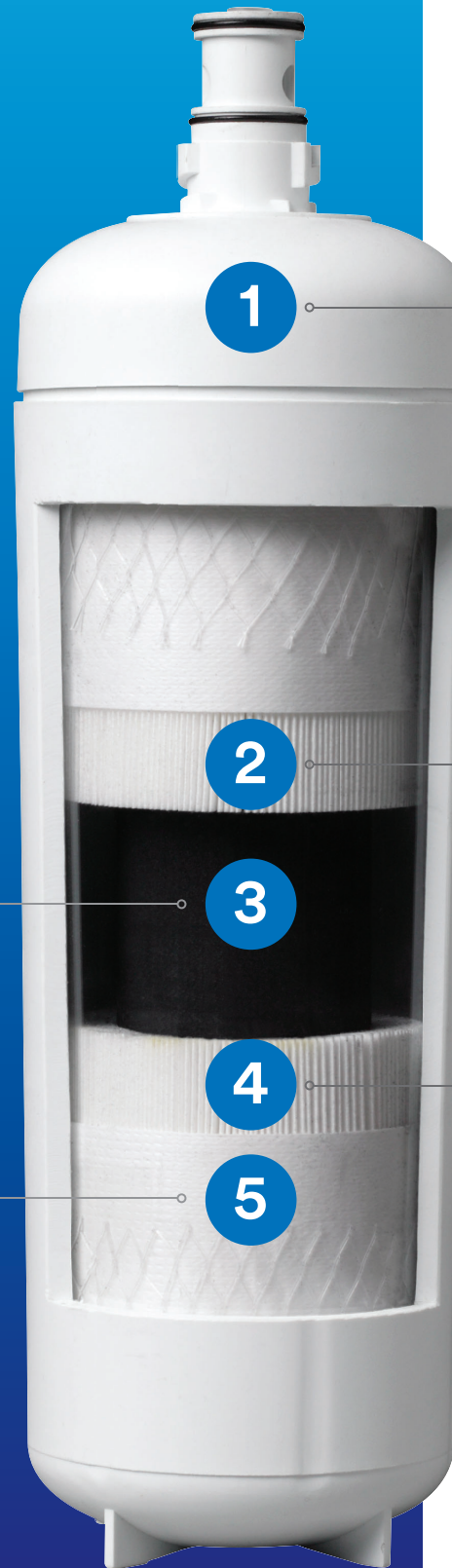
3M's long standing commitment to sustainable development through environmental protection, social responsibility and economic progress has resulted in 3M Purification being the first company to achieve Water Quality Association (WQA) Sustainability Certification under the WQA Product Sustainability standards.

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 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.



High Flow HF90-S

1 Polypropylene housing

2 Media with pleated membrane design¹ helps provide cyst² and bacteria³ protection and excellent sediment holding capabilities with minimal pressure drop

3 Pleated membrane media in HF90-S has **approximately 6X** the surface area of leading competitor's filter

4 Cartridges feature a 5 micron prefilter wrap

5

¹Filters 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.

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

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

Benefits that go beyond great-tasting ice.






- ▶ Satisfy customers with less chlorine taste and odor as well as reduced sediment
- ▶ Help prevent corrosion and extend the life of pumps, valves, seals and more
- ▶ Help extend the life of pumps, valves, seals and more with less sediment
- ▶ Experience less downtime and fewer service calls with built-in scale inhibitor
- ▶ Eliminate need for a separate prefilter
- ▶ 3M High Flow Series of cartridges with **Integrated Membrane Pre-Activated Carbon Technology** (“I.M.P.A.C.T.”) show higher throughputs and longer lifetimes.



1 HF90-S cartridge can deliver over **216,000** pounds of ice



3M Water Filtration Systems and Sizing

	Model/Part	Replacement Cartridge	Flow Rate (GPM)	Capacity (gal.)	Reduction Claims
	ICE120-S 5616003	HF20-S 5615103	1.50	9,000	Particulate, chlorine taste and odor, cyst ¹ , scale
	ICE125-S 5616004	HF25-S 5615203	1.50	10,000	Particulate, chlorine taste and odor, scale
	ICE140-S 5616203	HF40-S 5613305	2.10	25,000	Bacteria ² , particulate, chlorine taste and odor, cyst ¹ , scale
	ICE145-S 5616204	HF45-S 5613309	2.10	25,000	Particulate, chlorine taste and odor, scale
	ICE160-S 5616303	HF60-S 5613405	3.34	35,000	Bacteria ² , particulate, chlorine taste and odor, cyst ¹ , scale
	ICE165-S 5616304	HF65-S 5613409	3.34	35,000	Particulate, chlorine taste and odor, scale
	ICE190-S 5616403	HF90-S 5613505	5.00	54,000	Bacteria ² , particulate, chlorine taste and odor, cyst ¹ , scale
	ICE195-S 5616404	HF95-S 5613509	5.00	54,000	Particulate, chlorine taste and odor, scale
	ICE260-S 5624503	HF60-S (2) 5613405	6.68	70,000	Bacteria ² , particulate, chlorine taste and odor, cyst ¹ , scale
	ICE265-S 5624504	HF65-S (2) 5613409	6.68	70,000	Particulate, chlorine taste and odor, scale



¹ Certified to NSF Standard 53 for Cyst Reduction. Based on testing using *Cryptosporidium parvum* oocysts.
² As demonstrated with 99.99% reduction of surrogate organism *E. coli* (ATCC 11229) and *P. fluorescens* (ATCC 49642) in manufacturer's lab test.

Commercial Ice Machine Filter Sizing

Commercial Cubers

(sizing for 6-month cartridge change)

Ice machine size lbs. - day (kg/day)	Model/Part
Up to 750 lbs. (340.2 kg)	ICE120-S 5616003 or ICE125-S 5616004
Up to 1,000 lbs. (453.6 kg)	ICE140-S 5616203 or ICE145-S 5616204
Up to 1,450 lbs. (657.7 kg)	ICE160-S 5616303 or ICE165-S 5616304
Up to 2,170 lbs. (984.2 kg)	ICE190-S 5616403 or ICE195-S 5616404
Up to 2,900 lbs (1,315 kg)	ICE260-S 5624503 or ICE265-S 5624504

Commercial Flakers and Nugget Machines

(sizing for 6-month cartridge change)

Ice machine size lbs. - day (kg/day)	Model/Part
Up to 1,200 lbs. (544.3 kg)	ICE120-S 5616003 or ICE125-S 5616004
Up to 1,800 lbs. (816.5 kg)	ICE140-S 5616203 or ICE145-S 5616204
Up to 2,400 lbs. (1,088.6 kg)	ICE160-S 5616303 or ICE165-S 5616304
Up to 3,593 lbs. (1,630 kg)	ICE190-S 5616403 or ICE195-S 5616404
Up to 4,800 lbs. (2,177 kg)	ICE260-S 5624503 or ICE265-S 5624504

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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