



**Cold hard fact:  
Ice is 100% water.  
You want to keep  
it that way.**

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 clean, clear, great-tasting ice.



# The 3M™ High Flow Series provides:

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 systems<sup>1</sup>
- ▶ 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>
- ▶ **Recipe Quality Water™** for all commercial foodservice applications

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



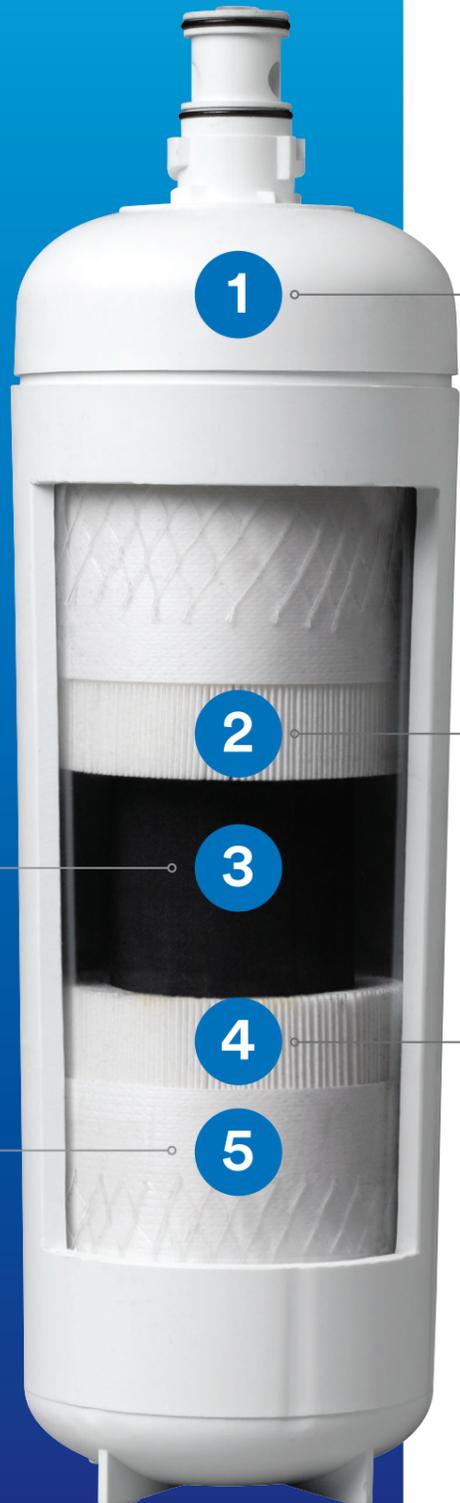
3M’s long standing commitment to sustainable development through environmental protection, social responsibility and economic progress has resulted in 3M Purification being the first company to achieve Water Quality Association (WQA) Sustainability Certification under the new WQA Product Sustainability 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™ Water Filtration Products provide built-in scale inhibition as well as chlorine taste and odour 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 design<sup>1</sup> helps provide cyst<sup>2</sup> and bacteria<sup>3</sup> protection and excellent sediment holding capabilities with minimal pressure drop

**3** Carbon block technology

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

**5** Cartridges feature a 5 micron prefilter wrap

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

Pleated membrane media in HF90 has **6X** the surface area of leading competitor’s 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> Based on the use of Cryptosporidium parvum oocysts.

<sup>3</sup> As tested with E. Coli ATCC (11229). Tested and verified by manufacturer’s laboratory.

## Benefits that go beyond great-tasting ice.

- ▶ Satisfy customers with less chlorine taste and odour 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
- ▶ Achieve higher throughputs and longer lifetimes with High Flow cyst-style cartridges featuring Integrated Membrane Pre-Activated Carbon Technology (“I.M.P.A.C.T.”).



A single cartridge can deliver over **98,000\*** KGs of ice



\*Based on HF90-S

# Ice Filtration Solutions

High Flow HF-S Series of Cartridges				
Part Number	Cartridge	Flow Rate (LPM)	Capacity (Litres)	Reduction Claims
7100017185	HF20-S	5.7	34,069	Particulate, chlorine taste and odour, cyst <sup>1</sup> , scale
7000050414	HF25-S	5.7	37,854	Particulate, chlorine taste and odour, scale
7100008238	HF40-S	7.9	94,635	Bacteria <sup>2</sup> , particulate, chlorine taste and odour, cyst <sup>1</sup> , scale
7000050884	HF45-S	7.9	94,635	Particulate, chlorine taste and odour, scale
7000001752	HF60-S	12.6	132,489	Bacteria <sup>2</sup> , particulate, chlorine taste and odour, cyst <sup>1</sup> , scale
7000050410	HF65-S	12.6	132,489	Particulate, chlorine taste and odour, scale
7000042826	HF90-S	18.9	204,412	Bacteria <sup>2</sup> , particulate, chlorine taste and odour, cyst <sup>1</sup> , scale
7000050885	HF95-S	18.9	204,412	Particulate, chlorine taste and odour, scale

<sup>1</sup> Based on the use of Cryptosporidium parvum oocysts.

<sup>2</sup> As tested with E. Coli ATCC (11229). Tested and verified by manufacturer's laboratory.



## Commercial Ice Machine Filter Sizing

### Commercial Cubers

(sizing for 6-month cartridge change)

Ice machine size kgs. - day	Cartridge
Up to 340.2 kgs	HF20-S or HF25-S
Up to 453.6 kgs	HF40-S or HF45-S
Up to 657.7 kgs	HF60-S or HF65-S
Up to 984.2 kgs	HF90-S or HF95-S

### Commercial Flakers and Nugget Machines

(sizing for 6-month cartridge change)

Ice machine size kgs. - day	Cartridge
Up to 544.3 kgs	HF20-S or HF25-S
Up to 816.5 kgs	HF40-S or HF45-S
Up to 1,088.6 kgs	HF60-S or HF65-S
Up to 1,630 kgs	HF90-S or HF95-S

#### 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.

#### Warranty, Limited Remedy and Disclaimer:

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

#### Limitation of Liability:

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

