Ice
Cubers and Flakers

ICE HF Range

Approximately 70% of ice machine equipment failures are water related. (Ice is composed of 100% water.)

Designed to reduce unscheduled service calls associated with corrosion, sediment and scale build up in commercial cubers and flakers.

Features

- IMPACT media package in large cartridges
- Built in scale inhibition
- SQC™ (Sanitary Quick Change) cartridge
- BSPT horizontal inlet and outlet ports
- 0.2 micron media
- 1.0 and 3.0 micron media
- Valve-in-head
- Optional pressure gauge
- Certified to NSFstandard 53 for cyst reduction

Benefits

- Higher flow rates, no need for manifold systems or for separate pre-filter and housing
- Reduces the ability of calcium and magnesium to precipitate on the evaporator plates as hard scale
- Allows fast and easy change-outs with a 1/4 turn while minimising the possibility of leakage and contamination
- Allows direct or easily adaptable connections to existing plumbing lines
- Reduces microbial content in water and protects customers from cyst and 99.9% of common pathogens
- Combined sediment reduction with chlorine, taste and odour reduction for high dirt loading applications
- No separate shut off valve required, easy to change using un-skilled staff
- Easy to monitor filter blockage for identification of time to change filter
- Independent qualification of performance and guarantee of product safety

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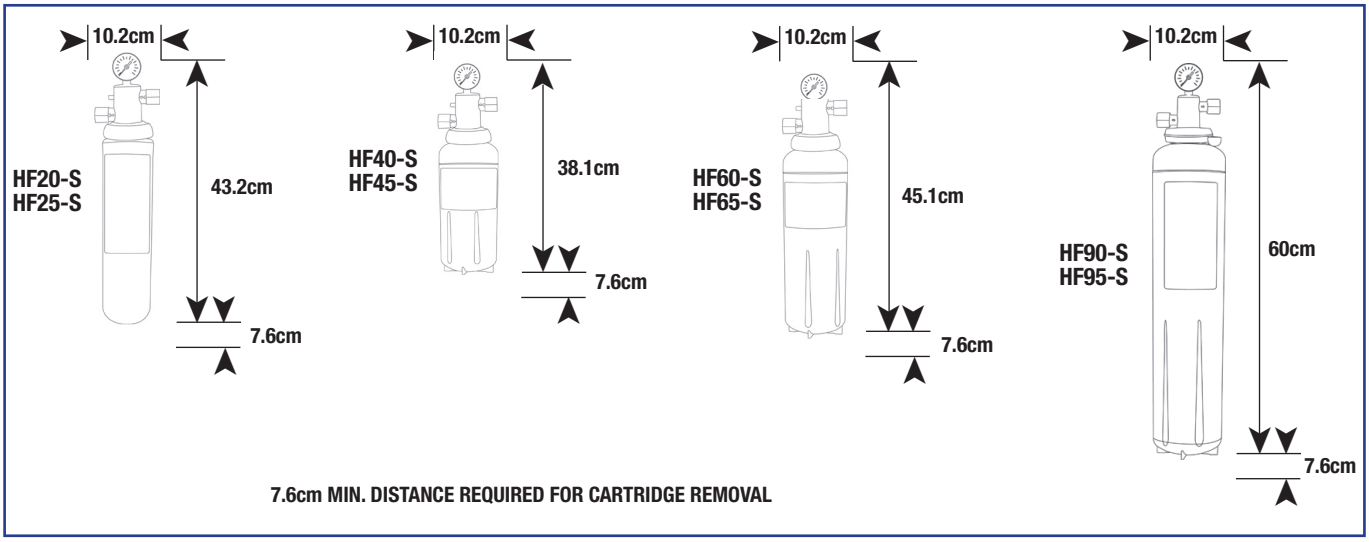

Ice range and technical specifications

					Reduction Claims					Components					Sizing (kg)	Impact
										Head			Cartridge			
Model/ System	Capacity (litres)	Micron Rating	Flow (lpm)	Water Application*	Chlorine taste & odour	Sediment	Cyst	Bacteria	Scale	Model	Connections	Part No	Model	Part No	Low flow cubers High flow cubers Flakers	NY/P**
ICE 120-S	34,069	0.5	5.7	SWC	•	•	•		•	VH3G-BSPT	3/8"	70020121839	HF20-S	70020020569	340, 91, 544	
ICE 125-S	37,854	1.0	5.7	HTW	•	•			•	VH3G-BSPT	3/8"	70020121839	HF25-S	70020020627	340, 91, 544	
ICE 140-S	94,635	0.2	7.9	SWC	•	•	•	•	•	VH3G-BSPT	3/8"	70020121839	HF40-S	70020121417	454, 272, 816	NY
ICE 145-S	94,635	3.0	7.9	HTW	•	•			•	VH3G-BSPT	3/8"	70020121839	HF45-S	70020121425	454, 272, 816	P
ICE 160-S	132,489	0.2	12.6	SWC	•	•	•	•	•	NH3G-BSPT	1/2"	70020122035	HF60-S	70020116706	659, 454, 1,089	NY
ICE 165-S	132,489	3.0	12.6	HTW	•	•			•	NH3G-BSPT	1/2"	70020122035	HF65-S	70020020130	659, 454, 1,089	P
ICE 190-S	204,412	0.2	18.9	SWC	•	•	•	•	•	NH3G-BSPT	1/2"	70020122035	HF90-S	70020020148	>658, 454, 1,089	NY
ICE 195-S	204,412	3.0	18.9	HTW	•	•			•	NH3G-BSPT	1/2"	70020122035	HF95-S	70020121433	>658, 454, 1,089	P

*SWC = Standard water conditions; HTW = High turbitiy water ** NY = Nylon membrane; P = Polypropylene pleated media

Impact Technology

Integrated **M**embrane **P**re-**A**ctivated **C**arbon **T**echnology media combines a high surface area pleated media and a pre-activated carbon block in a single cartridge to dramatically reduce pressure drop, provide higher throughputs and longer cartridge life, while eliminating the need for pre-filtration.

This unique technology combines a pleated media prior to a high performance carbon block. In cyst rated units this allows sediment, cyst and bacteria reduction with chlorine taste and odour reduction in a single cartridge.

For the 0.2 micron rated products, water first flows through a patented multi-zone, pleated nylon membrane which provides exceptionally high surface area. The first zone – with larger openings – retains the large particles like sediment, rust and cysts. The finer second zone traps the smallest contaminants like bacteria and gives a final polish. Water then flows through a pre-activated carbon block to reduce chlorine taste and odour and other organics. The patented rigid block ensures that no carbon fines are released into the water.

For commercial use with cold water only. For all systems, heads and cartridges are sold separately. Head comes with integral mounting bracket.
Maximum operating pressure is 125psi. Inlet and outlet connections are female. NSF performance data sheet included. Filter cartridges require no pre-activation and incorporate a carbon block media. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Maximum operating temperature is 38°C.
Bacterial reduction by membrane filtration of 99.9% of common pathogens as tested with E.coli and Pseudomonas Fluorescens. NSF and CFR-21 certified for use for materials in contact with drinking water. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
EPA Establishment Number 070595-CT-001. 3M recommends scheduled maintenance and replacement of the filter cartridge(s). Change the filter cartridge at least every 6 months. 3M cannot be liable for system failure due to improper maintenance.

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