

DANAMARK WATERCARE

Intro to Pentair Everpure



Key Topics



Brief History
Design & Technology
Markets & Applications
Importance of NSF
Recap



BRIEF HISTORY

EARLY BEGINNINGS

Everpure®, part of Pentair Foodservice, is a leading foodservice supplier, manufacturing commercial water treatment products, solutions and services worldwide since 1933.

ACQUISITION BY PENTAIR

Nov. 18, 2003 - Pentair announces it has signed an agreement to purchase Everpure, from US Filter, for \$215 million.

WHO IS PENTAIR?

Pentair plc is a leading global provider of water technology solutions, headquartered in London, United Kingdom. Worldwide, approximately 9,500 people in 25 countries and more than 120 manufacturing facilities generate annual sales of \$ 3.0 billion.

Design & Technology



PRECOAT

Everpure precoat filters innovatively combine sediment and carbon filtration in one cartridge with six times more filtering surface area than other systems of similar size, making it a popular choice for foodservices and residential water filtration.

Each filter consists of a pleated membrane as well as a blend of very fine activated carbon called Micro-Pure®. The fine Micro-Pure® powder removes chlorine, taste, odour and colour from the water, while the pleated membrane offers superb sediment filtration rated at 0.5 micron absolute.

When a new precoat cartridge is installed, inflow water forces the fine powder to adhere onto the pleated membrane, forming a permanent layer (known as “cake” or precoat) of Micro-Pure® powder. This layer does not crumble or disintegrate and remains intact.

Everpure precoat filters are designed in a variety of shapes to accommodate different treatment needs, yet they all use a heavy-duty, aluminum cartridge housing to protect the system from splitting or bursting. The cans are lined with a food-grade polymer that prevents water from coming in contact with the aluminum. Another advantage of this design is the prevention of hand-contact and contamination during cartridge replacement.



THE FC SERIES

The innovation at the heart of the FC Series Cartridge System is proprietary Fibredyne™ II filtration media, a technology that sets a new industry standard for performance and quality. Fibredyne II was designed to deliver the unvarying performance and cartridge life your operation demands, and the beverage quality you expect from the industry leader in foodservice water systems.

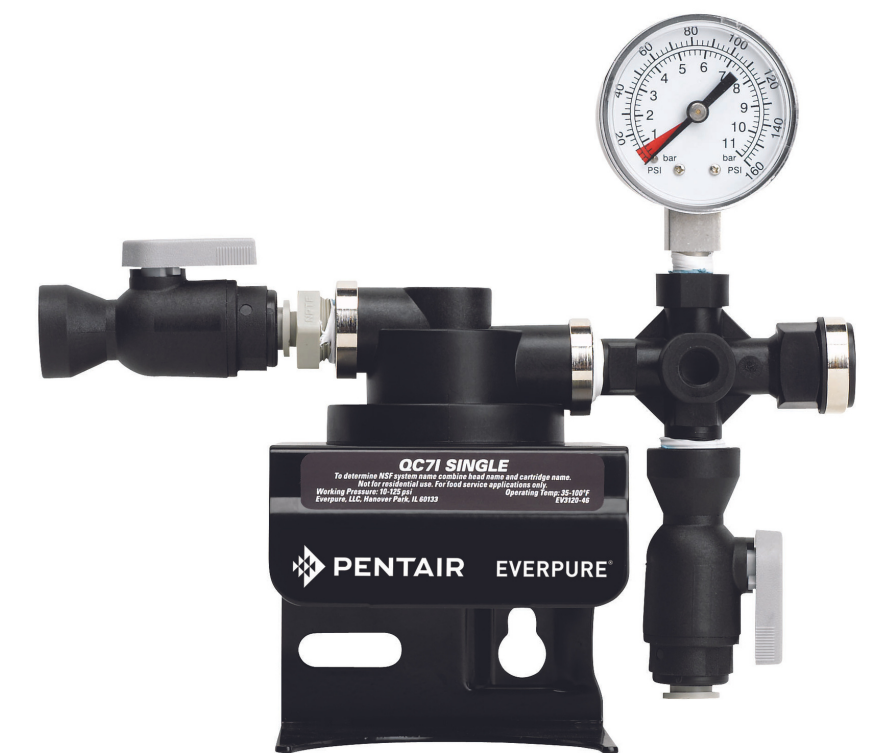
- An innovative design keeps up a strong, constant flow... even as the filter medium approaches the end of its life cycle
- Activated carbon is combined with a cellulose-free synthetic fiber matrix, for balanced filtration of both chemicals and particulates
- Fits into Everpure® heads for Insurice and Coldrink, as well as other High Flow CSR and Single heads
- Even under input pressures as low as 10 PSI, a High Flow CSR Quad 4FC System can supply ten gallons per minute and 60,000 gallons between filter changes. The 7FC version does even better, boosting output to 100,000 gallons



QUICK-CHANGE 'QC' HEADS

We refer to the design of Everpure QC heads and manifolds as universal. This is because they universally accommodate a broad range of Everpure cartridges. Whether the cartridge was designed 30 years ago or 30 days ago, it will fit into an existing Everpure head. This means you have a lot of flexibility in the broad range of cartridges you can use. As your needs grow, you have the flexibility to upgrade to higher capacity cartridges without any product modifications or capital investment.

- Designed exclusively to fit Everpure filter cartridges
- Quick sanitary cartridge change interface
- Includes mounting bracket and screws
- Includes built-in water shut-off valve
- Built-in water pressure gauge
- Engineered for durability, strength, and longevity
- Comes with a five-year manufacturer's warranty
- All wetted parts have passed NSF® extraction tests
- Inlet water passes through all filter cartridges at the same time, in twin, triple & quad heads



SINGLE SYSTEMS

QL3 SINGLE HEAD & CARTRIDGE

This 'quick-change' head is used with Everpure 2-size and 4-size cartridges. It comes with a mounting bracket and built-in shut off valve.

QC7i SINGLE HEAD & CARTRIDGE

This 'quick-change' head is used with Everpure 7-size and X-size cartridges. The 'i' stands for improved because it is an improvement over the QL3. It has a built-in pressure gauge (to monitor inlet and outlet pressure) and a flushing valve to purge the air out of the longer 7-size and x-size filters.

Single systems are typically used on a single piece of equipment (ice maker, coffee brewer, etc..)

QL3-BH System



QC7i-MH System



TWIN, TRIPLE & QUAD SYSTEMS

PARALLEL PLUMBED SYSTEMS

Parallel plumbed means that for each gallon of water being fed into the manifold, that one gallon is evenly spread across each filter. In this example, it would be 1/3 of a gallon per filter. This means that you achieve much higher flow rate capabilities across the system and all three filters expire at the same time. It also allows for greater capacity. This additional capacity means that multiple pieces of equipment can be hooked up to one central system.

CAPACITY EXAMPLES:	<u>Flow rate</u>	<u>Capacity</u>
QC7i-Twin	3.34 gpm	18,000 gals.
QC7i-Triple	5.01 gpm	36,000 gals.
QC7i-Quad	6.67 gpm	48,000 gals.

Insurice 4000 Triple System



HIGH FLOW CSR SYSTEMS

COMPLETE SYSTEM ACCOMMODATES MULTIPLE APPLICATIONS INCLUDING COFFEE, FOUNTAIN, ICE AND STEAM

- Quick-change feature eliminates sanitization required with drop-in cartridges
- Chlorine, taste & odor, 1/2 micron particulate reduction by mechanical means†, bacteriostatic*† and turbidity reduction all in a single cartridge!
- Harmful cyst reduction by mechanical means†
- High quality, durable and attractive aluminum construction
- NSF 42 and 53 certifications
- Features Everpure Micro-Pure® II media*† with antimicrobial protection to enhance product life



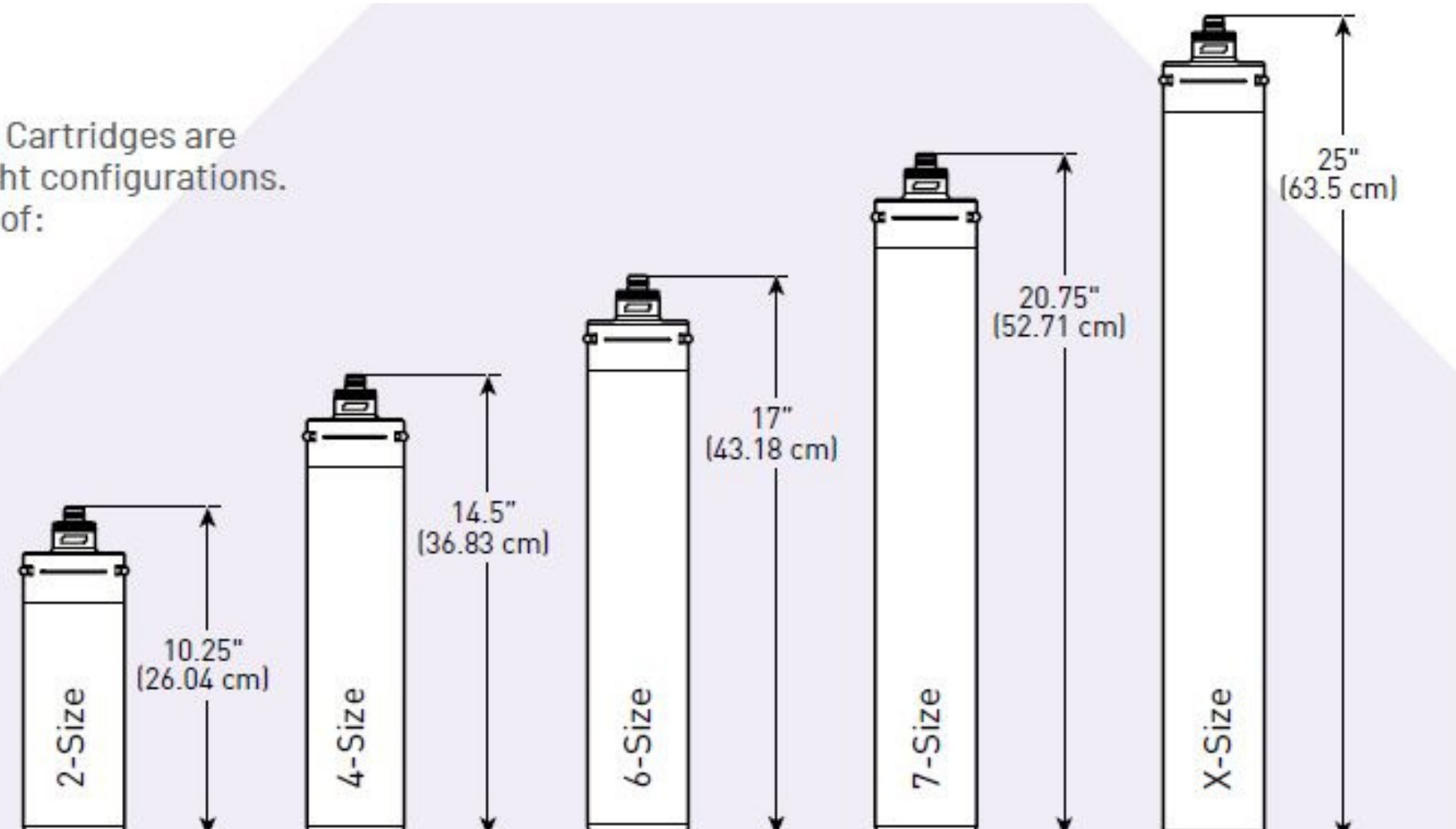
FILTER CARTRIDGE SIZES

Once you have installed an Everpure QC head, you have a wide range of replacement cartridges to choose from, to meet your needs. With or without chlorine removal, 1/2 micron or 5 micron, 0.5, 1.67 gpm, 2.0 gpm or 3.5 gpm flow rates, per cartridge. The longer the cartridge, the greater the capacity.

What's YOUR FILTER SIZE?

Pentair® Everpure Replacement Filter Cartridges are manufactured in five (5) different height configurations. Each cartridge has a size designation of:

- 2-size = 10.25" tall
- 4-size = 14.50" tall
- 6-size = 17" tall
- 7-size = 20.75" tall
- X-size = 25" tall



Markets & Applications



MARKETS



- Restaurants
- Convenience Stores
- Theatres
- Casinos / Gaming
- Cafes
- Grocery
- Hotels / Hospitality
- Convention Centres / Stadiums
- Healthcare / LTC
- Office Coffee

to name a few....

APPLICATIONS



- Fountain Pop
- Ice
- Coffee & Espresso
- Steam & Combi Ovens
- Warewashing
- Drinking Water
- Iced Tea
- Misting Systems
- Water Boost
- Ozone Disinfection
- HVAC Sterilization
- Softening

NSF Certification



NSF CERTIFICATION

IMPORTANT REASONS TO LOOK FOR NSF CERTIFICATION:

- Performance claims may be based on internal testing only. Do you have access to all the testing procedures used? Was testing done to industry standards?
- Sometimes stated capacities are misleading because they may be based on only chemical (chlorine) reduction and don't take particulates into consideration. Particulates have an important role in how long a filter will last. Most often, a filter plugs from dirt before the chemical capacity is used up.
- In capacity claims, it's not always clear what percentage of chemical contaminants are actually reduced. For example, if there is only a 50% reduction in chlorine then higher capacities can be claimed. But is removal of only half the chlorine acceptable for quality beverages?

NSF CERTIFICATION ENSURES THAT:

- The contaminant reduction claims certified are true and accurate.
- The materials of construction do not add anything unwanted to the water such as lead.
- The system is structurally sound.
- Advertising claims are true and accurate.

WHAT IS NSF?

Founded in 1944, NSF International is a not-for-profit organization that provides public health and safety risk management solutions to companies, governments and consumers around the world.

Its main business is to bring together experts in public health, manufacturing, and sanitation from government, industry, academia and the public to develop and administer performance standards for products which have some impact on sanitation and public health. NSF maintains state-of-the-art laboratories where products can be tested according to set standards

LOOK FOR THESE CERTIFICATIONS

- NSF/ANSI Standard 42: Aesthetic Effects For water treatment systems designed to reduce specific aesthetic or non-health-related contaminants (chlorine, taste & odor, and particulates).
- NSF/ANSI Standard 53: Health Effects For water treatment systems designed to reduce specific health-related contaminants, such as Cryptosporidium, Giardia, lead, volatile organic chemicals (VOCs), MTBE (methyl tertiary-butyl ether).





EVERPURE
WATER YOU CAN TRUST



From gourmet coffee and sweet tea to smoothies and beyond, foodservice professionals have turned to new beverage offerings as the fuel for increased profitability and growth. Along with this opportunity comes a challenge: finding a water filtration solution that responds to greater water demand without adding excessive costs or maintenance hassles.

Everpure® meets your needs and answers the challenge by offering right sizing: the ability to match water filtering capacity precisely to your beverage water needs. There's simply no reason to buy excess capacity when you don't need it. Everpure systems and cartridges can be configured into a complete new system, or retrofitted into existing Everpure filtration equipment. It's just right for the needs of foodservice customers, who told us what they wanted in a water filtration system.

DANAMARK WATERCARE

Thank you for your time...

