

# claris® ultra



## Unique water purification for commercial food services

New patent pending water conditioning technology providing unequalled accuracy for scale and acidity control for increased demands on machine protection and food and beverage quality.



**Pentair**  
**Foodservice**



### **Outstanding filtration technology (patent pending)**

With the introduction of Claris ULTRA, Everpure is offering a new standard of water filtration technology providing previously unavailable accuracy for scale and acidity control.

Everpure's new Claris ULTRA filter range successfully solves the challenges of finding the best balance between protecting an operation's equipment investment and achieving the desired quality of brewed coffee, espresso, other hot drinks and ice cubes, by consistently maintaining a moderate acidity level according to the EU drinking water regulation.

Claris ULTRA with its new water filtration and conditioning technology is the world's first filter system to effectively combine hardness reduction, mineral stabilization and corrosion inhibition by maintaining a controlled low carbonic acid level in the water.

As a result, Everpure Claris ULTRA delivers the best available water quality for hot drinks and ice machines while preventing scale formation in machines and inhibiting metal migration (corrosion) of machine parts across the widest range of water hardness levels.

### **Long equipment lifetime - low running costs**

Claris ULTRA has been specifically developed to remove a range of contaminants from the water, such as particles or unwanted taste & odour. Additionally it adapts and stabilizes the water hardness minerals to enhance the performance of hot drinks and ice machines and to minimize operation costs.

Equipment life and the cost for maintenance to keep hot drinks and ice making equipment running at peak efficiency depend on the ability of the filter system to selectively and precisely balance mineral levels to protect machine parts effectively from water related problems. The reduction and stabilization of hardness is only one part of the story to protect machine parts. A foodservice water filter also needs to trigger a balanced acidity in water as the basis for perfect hot drinks and to inhibit metal migration from sensitive machine parts.

Claris ULTRA meets all these requirements and offers unmatched low running costs. It delivers perfect water for high quality food and beverage preparation, prevents water related problems and offers superior ease of operation.

## **CONSISTENT MINERAL ADAPTATION – CRUCIAL FOR QUALITY DRINKS AND ICE CUBES**

Water hardness and temporary hardness (alkalinity) - the lime scale forming part of the total water hardness - have the highest share of total minerals in most commonly available potable water.

That's why softening filter cartridges are widely used in the foodservice industry.

Because healthy and good tasting water requires a specific and balanced mineral composition, softening filter systems should be equipped with an adjustable blending device to adjust the water mineral hardness to the requirement of the application.

### **Balanced alkalinity for best coffee flavour, perfect crema and clear ice**

For specialty coffee, it is important to maintain some specific minerals and to balance the alkalinity level in the water as this enhances the coffee flavour and aids proper extraction of the coffee bean and grind.

Furthermore, an unbalanced level of alkalinity can lead to a superficial acidity, which provides poor crema on espresso or encapsulated flavour of drinks.

Too little or too much calcium or magnesium will have an impact on the drinks quality and lead to lime scale build-up in machines.

### **DUOBLEND valve technology for highest accuracy**

Few water softening filter systems with a blending bypass valve currently available in the market meet foodservice requirements for accuracy and consistency. Flow rates and pressure fluctuations triggered by multiple drinks machines or other equipment can strongly impair the blending ratio if insufficient bypass technology is used. As a consequence the level of hardness minerals, alkalinity and carbonic acid in filtrate can strongly fluctuate.

That's why Everpure Claris ULTRA systems feature the unique DUOBLEND® bypass valve in combination with its unique water mineral adaptation and stabilization technology.

The patent pending DUOBLEND® technology consists of an inter-dependant working twin-valve blending device. It ensures that for each application the bypass ratio remains consistent and precise in a very narrow range irrespective of water flow rate and pressure.

As a result, Everpure Claris ULTRA secures the most consistent bypass ratio to enable a balanced degree of hardness, alkalinity and acidity in filtered water.





## FACTS |

### Claris ULTRA unique features and benefits

- Combines lime scale protection and corrosion inhibition
- Inhibits metal migration (corrosion) from machine parts
- Maintains pH range according to EU drinking water regulation
- Offers cartridge family with widest capacity (one head fits all)
- Ensures lower cost of operation / less down time of machines



### Claris ULTRA specific features and benefits

#### Ice making Equipment:

- Clearer and harder ice / less down time
- Protection from scale and scale amplified bio-film
- Less water consumption / higher energy efficiency
- Lime scale protection / no frequent de-scaling service

#### Hot Drinks Vending & Coffee machines:

- Sustaining coffee roasting quality / optimal use of ingredients
- Lime scale protection / avoids frequent descaling service
- Enhanced energy efficiency / less cost of operation
- Small foot print / less space requirement per liter



### Claris ULTRA standard features and benefits

- Cartridge family with widest capacity range (one head fits all)
- DuoBlend® valve technology for most accurate bypass ratio
- Works mounted / free-standing / horizontal / vertical
- 5 µm Carbon block membrane for best particle protection
- Installation and replacement in a hand- turn
- Lower pressure loss / higher throughput



**EVERPURE®**

## EVERPURE CLARIS ULTRA OFFERS SUPERIOR EASE OF OPERATION

Claris ULTRA offers superior ease of operation as already known from standard Everpure Claris filter systems.

Everpure Claris Ultra cartridges are designed to fit to all available current Everpure Claris filter heads in the market. This allows all existing users of Everpure Claris systems to benefit from the new Claris ULTRA technology.

The Claris Ultra cartridge family is available in a range of 5 sizes with incremental capacity for

low to very hard water areas and for small to high volume operations.

With its large capacity to space ratio, its compact dimensions and the ability to be mounted horizontally or vertically, the Claris ULTRA cartridge family perfectly matches a wide range of applications.

Thanks to its very low pressure loss, Everpure Claris ULTRA is the ideal choice at locations with low mains pressure.

### Dimensions

Claris ULTRA Type	250	500	1000	1500	2000
Height, filter system (mm)	365	475	410	525	525
Height, filter cartridge (mm)	315	425	360	475	475
Diameter of filter cartridges (mm)	95	95	136	136	175
Min. distance from ground (mm)	40	40	40	40	40
Weight (kg)	1.3	1.8	3.2	4.3	6.5
<b>Operating data</b>					
System pressure	2 - 8 bar				
Water temperature/ambient temperature	4° - 30°C				
<b>Capacities*</b>					
Vending & Ice Cube Machines without steam operation	2'500	4'200	8'500	12'100	20'000
Coffee Espresso Machines with steam operation	2'250	3'750	7'000	10'000	16'500

\*Typical capacity by 10° Carbonate Hardness (alkalinity); capacities intend as guidelines. Please contact us for recommendations.

### Order information

Claris ULTRA Type	250	500	1000	1500	2000
Clariss Ultra filter cartridges P/N	4339-80	4339-81	4339-82	4339-83	4339-84
Filter head 3/8" thread, in left/out right	4339-21				
Filter head 3/8" - QCF, in left/out right	4339-23				
Filter head 1/4" - QCF, in left/out right	4339-25				
Filter head 3/8" QCF, in left/out left	4339-22				
Filter head 1/4" QCF, in left/out left	4339-24				
Flow sensor with programming and display unit in liter - low flow	4339-30				
Flow sensor with programming and display unit in Usgal - low flow	4339-31				
Flow sensor with programming and display unit in Usgal - high flow	4339-32				
Connection hose, 1500 mm, 3/8"-3/8"	4339-50				
Connection hose, 1500 mm, 3/8"-3/4"	4339-51				
Connection hose, 100 mm, 3/8"-3/4" (Set of 2)	4339-53				
Test kit for determining carbonate hardness	4339-40				

## SWISS TECHNOLOGY - WORLDWIDE COMPETENCE - LEADING BRANDS

Everpure, part of the Process Technologies Group of Pentair, Inc. is a leading foodservice industry supplier and has been manufacturing commercial water treatment products, solutions and services worldwide since 1933. Everpure is a trusted provider of water treatment products to the vending, consumer, marine and aviation markets.

Clariss is a registered trademark of the Aquis GmbH in Switzerland. Aquis is a Swiss manufacturer engaged in the development and production of customized water filter solutions for the domestic and commercial market. Clariss has become the leading brand and the synonymous for integrated water filter solutions for domestic espresso machines.

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