



# Chloramine Carbon Block with Scale Reduction Technology

## Sediment-wrapped Carbon Block Filter with ScaleArmor™

Designed for residential and light commercial water treatment applications

Atlas Filtri® RE4520CLS, CB-AF BIG CLM Scale Reduction 20 SX 1-Micron is a double open-ended (DOE) filter cartridge, designed to perform with a minimal pressure drop. It also has a high adsorptive capability and efficiently reduces chlorine, chloramines, and contaminants such as detergents, herbicides and pesticides commonly found in water. It offers a high dirt holding capacity and shorter flush time than standard blocks. The filter is offered in 20" with a nominal filtration rate at 1-micron.

Wrapped around the outside of the carbon block is a sediment filter to reduce particulate build-up on the surface. This prolongs the life of the block in high dirt load applications. Included in the center core of the carbon block is polyphosphate media. The design provides a controlled release of less than 1 ppm of media when water is flowing through the cartridge. The carbon block filter and the polyphosphate media have been tested and certified separately under NSF/ANSI Standard 42 and 60 as shown at the bottom right of the page.

Polyphosphate media prevents the formation of scale and eliminates existing scale by accelerating the transformation of the calcium and magnesium minerals into harmless "Aragonite" crystal particles. As these particles flow through plumbing systems they will not attach to pipes, fixtures, valves, or heating elements.

The polyphosphate also acts as a corrosion inhibition. It is used to form a protective coating on metal surfaces and provide corrosion protection against acidity, alkalinity, and many other mineral salts which may lead to the "rusting out" of water system pipes and equipment. Iron is also reduced through sequestering dissolved iron up to 10 ppm and prevent the iron from precipitating, staining, discoloring, and distasteful flavor.

Polyphosphate has been tested and certified under ANSI/NSF Standard 42: Drinking Water Treatment Units-Aesthetic Effects ANSI/NSF Standard 60: Drinking Water Treatment Chemicals-Health Effects, for use in potable water systems at concentrations up to 10ppm.

Atlas Filtri is driven to providing our customers with the best available products to meet their filtration requirements. This is done by using the most advanced manufacturing and design methods. The international patents received come from a constant commitment to research and develop that result in new and innovative products.

Check out more about Atlas Filtri at [us.atlasfiltri.com](http://us.atlasfiltri.com).



**Chloramine Reduction  
Carbon Block Filter  
Cartridge  
4.5" x 20"  
1-Micron  
Scale Reduction Media**



CB-AF series is tested and certified by NSF International against NSF/ANSI Standard 42 for materials requirements only



COMPONENT  
This SLOW PRODS is tested and certified by NSF International against NSF/ANSI Standard 42 for material requirements only.



Certified to NSF/ANSI 60



### Features

#### **Sediment Wrap Carbon Block Filter Cartridge:**

- Designed for residential and light commercial filtration applications
- Designed for chloramine reduction
- Reduction of sediment in the water down to 1-micron nominal
- Standard double open-ended (DOE) design
- Controlled release polyphosphate, low acid, controlled release
- Cartridge designed to last 12 months on 15 grain hard water
- Color-coded caps and label for easy identification

### Specifications

#### **Materials:**

- Filter Construction:
- Catalytic Coconut Shell Carbon Filter Media
  - Glassy polyphosphate

#### **Working Conditions:**

Working Temperature Range:  
Min 39.2°F (4°C) – Max 177°F (80.6°C)

#### **Media Temperature Range:**

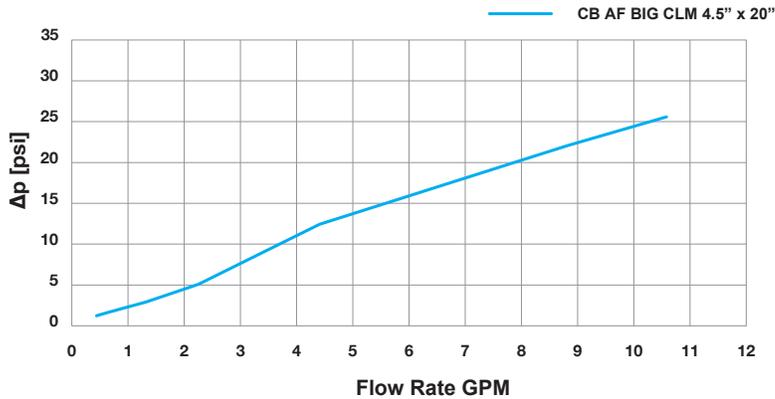
Max 220°F (104°C) in heated environment  
(Boiler Recirculation)

## PRODUCTS SPECIFICATIONS and PERFORMANCE

Listed CB AF CLS are standard double open-ended models

PART NO.	MODEL	OD X LENGTH NOMINAL	MICRON NOMINAL	INITIAL PRESSURE DROP @ FLOW RATE	CAPACITY
RE4520CLS	CB-AF Big CLM 20 SX 1-micron	4.5" X 20"	1	1.4 psi @ 4.5 gpm	34,000 gal @ 7 gpm

FLOW RATE vs PRESSURE DROP  $\Delta p$  | Testing mode: 68°F - 43.5 psi (20°C - 3 bar)



### Optional Filter Housings for use with Carbon Block Scale Filter



ZA1802746 Gauges and Drain Kit  
2 Chloramine Blocks  
4 GPM @ 28,000 gallons



ZA1802745L Gauges and Drain Kit  
2 Chloramine Blocks  
4 GPM @ 28,000 gallons



ZA1803737 Gauges and Drain Kit  
2 Chloramine Blocks  
4 GPM @ 42,000 gallons



ZA1803745L Gauges and Drain Kit  
2 Chloramine Blocks  
4 GPM @ 42,000 gallons

**Note: DP Big - 1" NPT - 4.5" x 20" – Housing Kits**  
Includes the housing, bracket, wrench, and lubricant. Filter cartridges sold separately.



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