

WATER CARE

FILTERS



FILTRATION TECHNOLOGIES



THE IMPORTANCE OF DRINKING CLEAN AND SAFE WATER

Essential for:

- > HYDRATION
- > CLEANING
- > FOOD PREPARATION

contains →

Essential mineral salts:

- > CALCIUM
- > MAGNESIUM
- > POTASSIUM

**IN SOME CASES
PATHOGENS
MAY ALSO
BE PRESENT**

DAILY USE

~ 20-50 LITERS

— **CARDIOVASCULAR
DISEASES**

+ **BENEFITS
FOR THE BODY**



VIRUS



BACTERIA



ENDOTOXINS



PHARMACEUTICAL



HEAVY METALS

INVISIBLE CONTAMINATION

The simple fact that water comes out of the tap does not necessarily guarantee its purity

**INDUSTRIALIZATION
+
MASS
AGRICULTURAL
CROPS**

that causes the
contamination of
water with heavy metals,
herbicides, fertilizers,
pharmaceutical residues
and microplastics

**WATER NETWORK
ARE OFTEN WORN
OUT AND NOT
WATERTIGHT**

**SHORT AND LONG-TERM
HEALTH DAMAGE**

the correct implementation
of filtration devices is required
for the efficient removal of impurities





MECHANICAL FILTRATION

It works like an ultra-fine sieve, retaining suspended particles, turbidity, bacteria, viruses, and microplastics. It does not alter the chemical composition of the water but ensures physical purity and protects subsequent treatment stages.

It protects water and systems from sediments, particles, and biological contaminants.



MECHANICAL FILTRATION

PREFILTRATION

It is the simplest filtration,
used to remove the substances
suspended in water.

It is made using different types
of membranes produced in synthetic
fibers. It can have different degrees of
filtration: 1- 5- 10- 20 - 50 microns.



MECHANICAL FILTRATION

MICROFILTRATION

Meant as filtration from 0.50 to 0.20 microns, is obtained using very thin membranes made of polyethylene.

ADVANTAGES

- Large capacity of mechanical filtration very effective against impurities.
- Greater efficiency and accuracy of filtration compared to basic filtration.
- Large filtration surface to ensure a flow of water suitable for a wide range of applications.



MECHANICAL FILTRATION

ULTRAFILTRATION

Due to the use of hollow fiber membranes with very low filtration levels we can reach a filtering capacity between 0.20 and 0.15 microns.

ADVANTAGES

- Retains particles generally with a diameter greater than or equal to 0.15 microns.
- Retains the bacterial load in the water.
- Greater efficiency and accuracy of filtration versus microfiltration.



MECHANICAL FILTRATION

NANOFILTRATION

It is the finest filtration obtained with membranes made in nanotechnology, achieves capacity to retain up to 0.005 micron.

ADVANTAGES

- Retains particles generally with a diameter greater than or equal to 0.005 microns.
- Retention of viruses and endotoxins.
- Requires a stage of pre-filtration to maintain filtering capacity longer over time.

IN SUMMARY

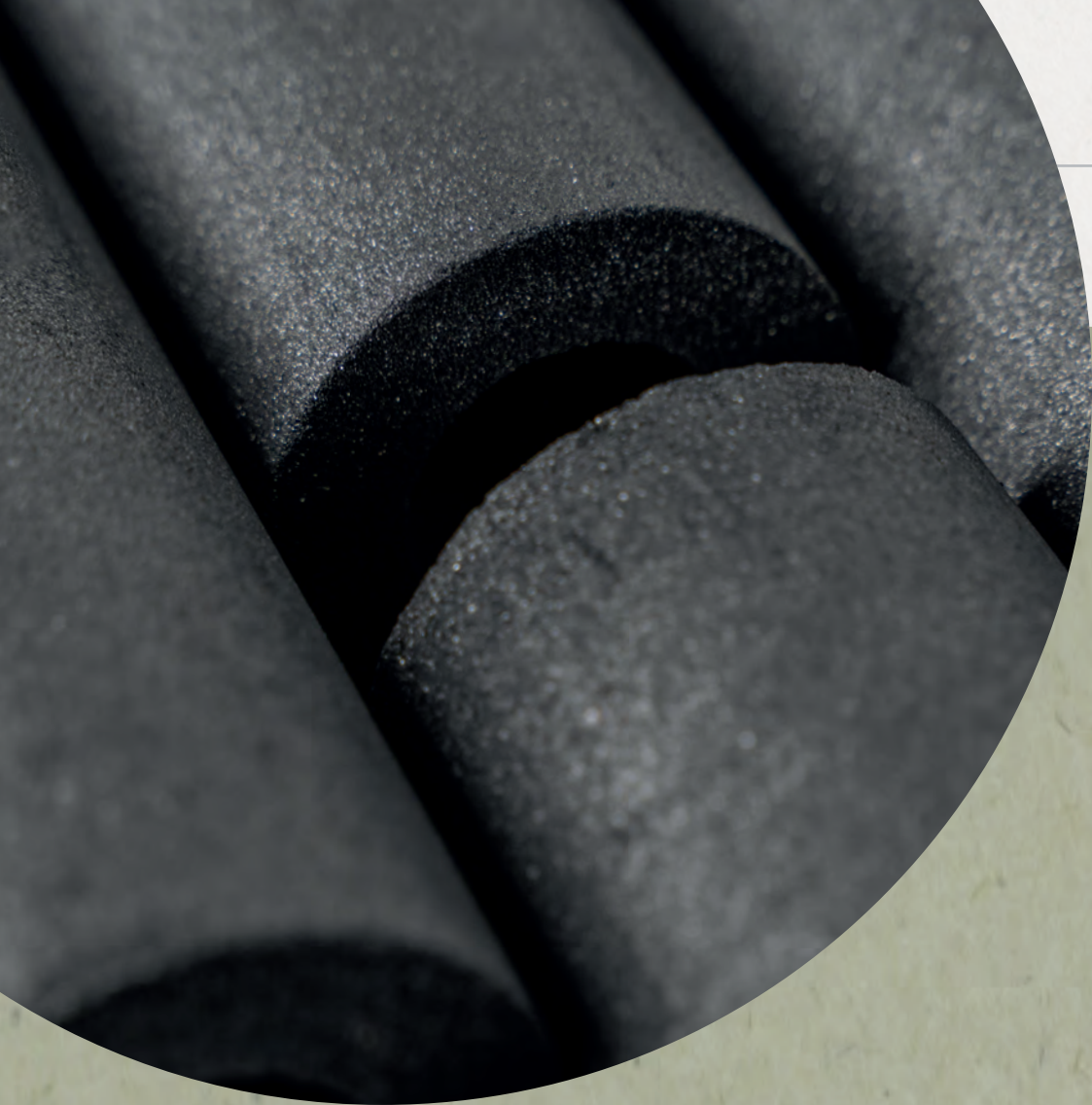
PATHOGENS		BLOCK	REFINER®	FIBER	FIBER PLUS
	PARTICLES	●	●	●	●
	BACTERIA			●	●
	CHEMICAL	●	●	●	
	HEAVY METAL		●		
	PESTICIDES / HERBICIDES	●	●	●	
	VIRUS				●
	PHARMACEUTICAL	●	●	●	●
	MICROPLASTICS	● 5 micron	● 0.5 micron	● 0.15 micron	● 0.005 micron
	ENDOTOXINS				●



CHEMICAL FILTRATION

It works through chemical reactions or adsorption, removing unwanted substances such as chlorine, heavy metals, limescale, and other chemical impurities.

It protects both water quality and systems from chemical damage or buildup.

A circular inset image showing a close-up of dark, porous activated carbon granules.

CHEMICAL FILTRATION

ACTIVATED CARBON

It is the most common filtration made using activated carbon in different consistencies: powdered, granular or in sintered block.

ADVANTAGES

It guarantees high power of adsorption, retaining pollutants, heavy metals, chemicals, and chlorine, thus improving the taste of water.



CHEMICAL FILTRATION

SELECTIVE RESIN

Due to the use of selective resins (synthetic or natural) we can be able to remove all pollutants in the water, operating selectively on some detected contaminants.

The activation of the resins occurs by contact with water, retaining the polluted part.

IT IS IMPORTANT

the establishment of a column of resins large enough to ensure a slow but steady flow.



CHEMICAL FILTRATION

ION EXCHANGE RESINS

These synthetic resins are generally used for softening and demineralization of water. The chemical reaction occurs through the exchange of mineral salts between the water and the resin itself.

IT IS IMPORTANT

the contact time between water and resin and the mandatory path that water manages to keep inside the filter.

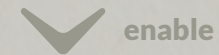
A close-up photograph showing a hand wearing a blue nitrile glove installing a white pleated filter cartridge into a white plastic water filter housing. The housing is mounted on a wall, and the background is a light-colored, textured wall. The text 'STRUCTURES OF THE FILTERS CARTRIDGE' is overlaid on the right side of the image in a bold, dark gray font.

STRUCTURES OF THE FILTERS CARTRIDGE

THE DIFFERENT STRUCTURES OF CARTRIDGE FILTERS



CARTRIDGE FILTERS



enable

**DIFFERENT
DESIGNS AND
INTERNAL
CONFIGURATIONS**



**GREAT
VERSATILITY**

must be considered



- filter media used
- operating range
- autonomy required
- structure of water in entrance

THE STRUCTURES OF CARTRIDGE FILTERS

SINGLE FILTRATION

Only one material is used for the construction of these systems to obtain a filtration made at a single level.

MONOMATERIALS

Polypropylene and carbon blocks are the most used materials for simple filtration!



THE STRUCTURES OF CARTRIDGE FILTERS

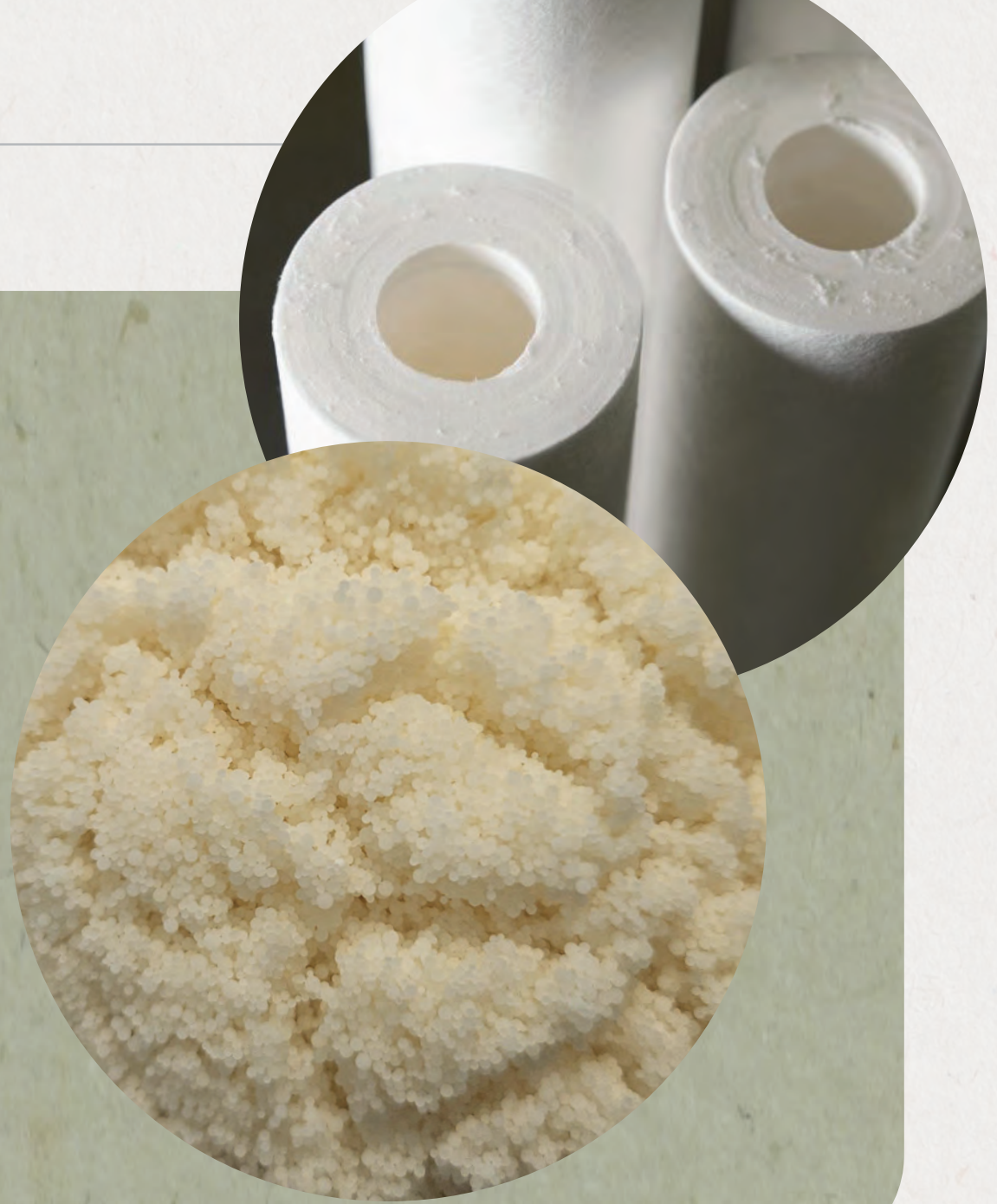
MULTIPLE FILTRATION

Two or more filter media are used to create a combined filter and obtain a multiple filtering action.

The components are generally matched on sequential to obtain a multiple pass of water at different filtration levels.

The components used retain their structure unaffected by being able to work independently.

Combinations are normally made using selective resins and polypropylene pre filters.



THE STRUCTURES OF CARTRIDGE FILTERS

THE COMPOSITE FILTRATION

It's the most complete, complex and effective filtration.

Two materials which usually are complementary to each other are used and combined inside the filter, allowing them to merge in a single filter body.

The inner membrane made of polyethylene is completely covered with powdered carbon which, thanks to its physical composition, completely merges with the water exponentially multiplying the contact surface.

The characteristics of this filter are above all the great autonomy and the low risk of clogging.

Pre coat technology, widely used in domestic and beverage water filtration.



WHY CHOOSE REFINER® ?

The composite filter made in Water Care Filters

**WATER CARE FILTERS:
EXPERIENCE + KNOW-HOW + RESEARCH**



**REFINER® FILTER:
COMPOSITE STRUCTURE SYSTEM**

advantages



- Clean and safe water
- Improves the taste of water
- Removes chlorine, heavy metals and impurities
- High performance in terms of durability
- Keeps unchanged the mineral structure of water
- Made in Italy
- Controlled, guaranteed and certified product
- Does not require electrical connections

it is possible thanks to



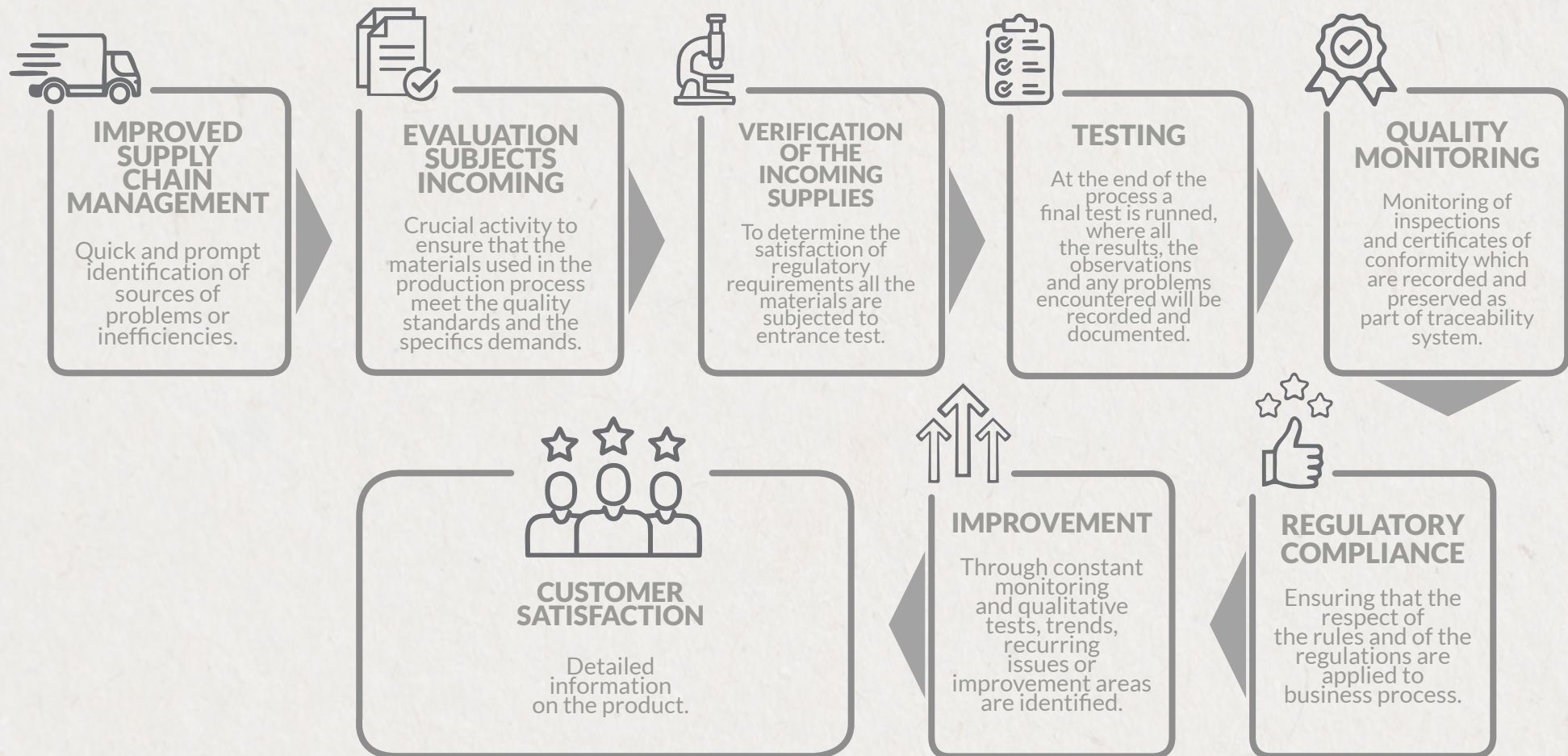
**LARGE FILTRATION AREA
+ CARBON POWDER USE**



WATER CARE FILTERS

guarantees the quality and the traceability of its products

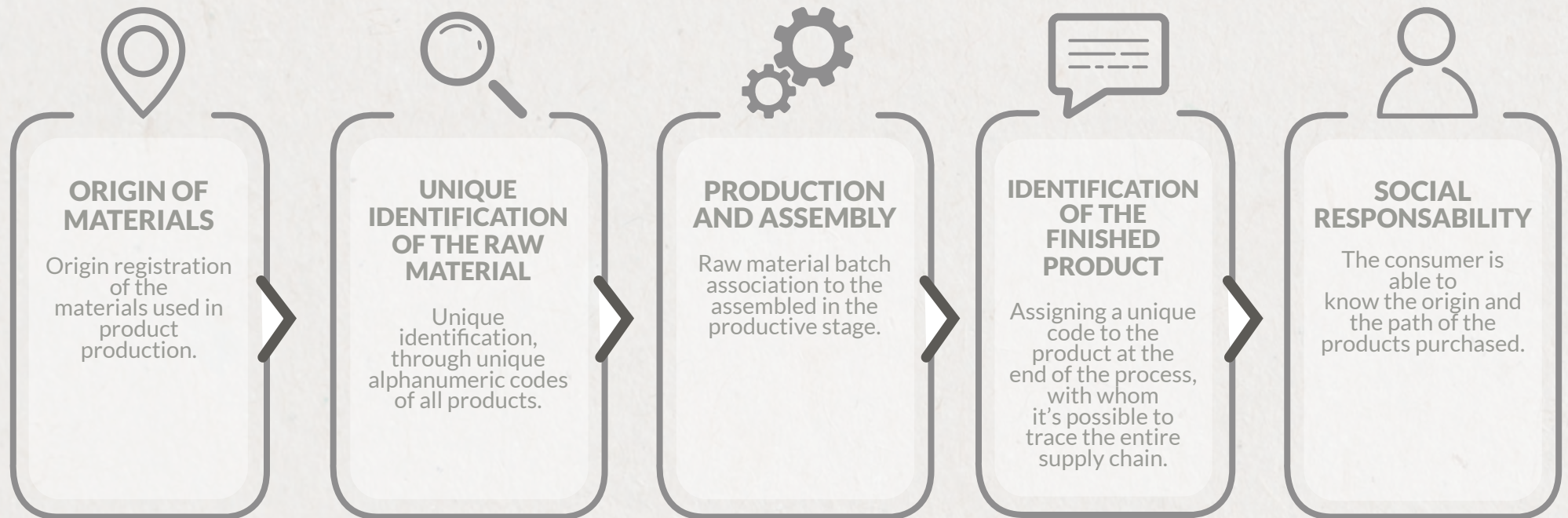
QUALITY PATH



WATER CARE FILTERS

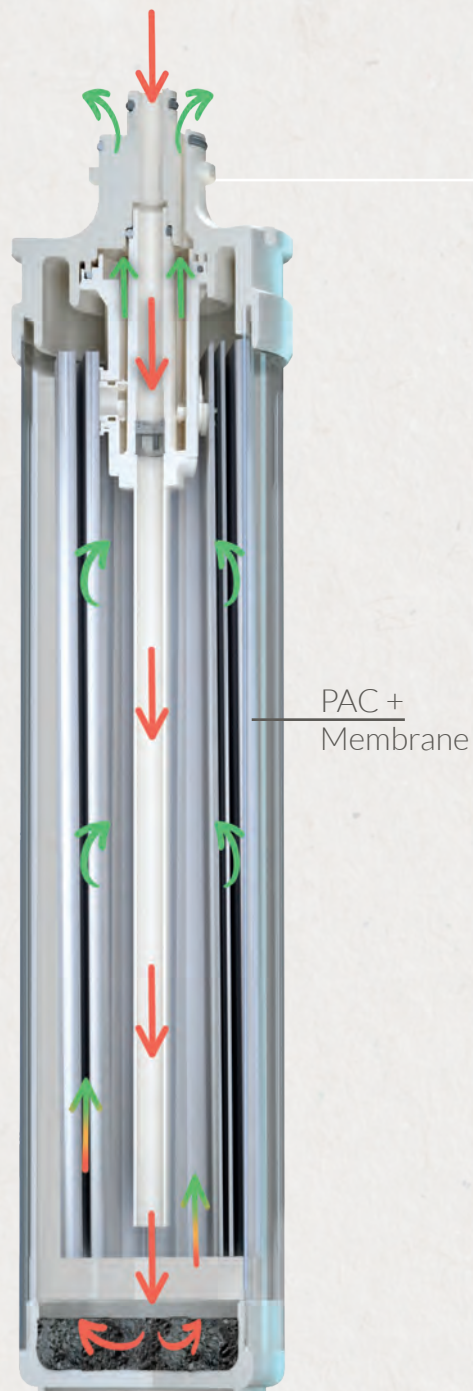
guarantees the quality and the traceability of its products

TRACEABILITY COURSE





WATER CARE FILTERS CARTRIDGES



WATER CARE FILTERS CARTRIDGES

REFINER®

- LARGE FILTRATION AREA AT 0.5 MICRONS
- LOW PRESSURE DROP
- LONG FILTER LIFE
- **THROUGH CONTACT WITH POWDERED ACTIVATED CARBON, THE WATER IS FREED FROM ALL HARMFUL SUBSTANCES:**
 - Due to the contact with coal powder, water releases all the pathogens
 - Essential mineral salts and minerals electrolytes remain unaffected

REMOVE:



PESTICIDES



CHEMICAL



MICROPLASTICS

WHERE MEDIA AND COMPONENTS ARE ASSEMBLED TO FIND THE BEST WATER TREATMENT SOLUTION

WATER CARE FILTERS CARTRIDGES

BLOK and PRIMED

- MONOMATERIAL
- FOR THE SAME DIFFERENT STRUCTURES THERE ARE DIFFERENT FILTRATION FUNCTIONS
- SIMPLE MECHANIC FILTRATION WITH A DEGREE OF FILTRATION FROM 0.3 TO 5 MICRONS (depending on the internal material)
- POSSIBLE COMBINATION WITH ADDITIONAL ELEMENTS FOR MEETING DIFFERENT NEEDS

REMOVE:



PESTICIDES



CHEMICAL



PARTICLES
> 5 microns



MICROPLASTICS
> 5 microns



WHERE MEDIA AND COMPONENTS ARE ASSEMBLED TO FIND THE BEST WATER TREATMENT SOLUTION

WATER CARE FILTERS CARTRIDGES

FIBER

SAFETY FIRST AND FOREMOST!

- REMOVES EXCESS CHLORINE WHILE THE CARBON FIBER PROVIDES BACTERIOSTATIC PROTECTION
- REMOVAL OF BACTERIA RETAINED UP TO 0.15 MICRONS, THROUGH THE EFFECTIVENESS OF THE HOLLOW FIBER
- SAFE WATER AND QUALITY GUARANTEED BY MATERIALS OF HIGH EFFICIENCY

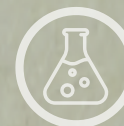
REMOVE:



BACTERIA



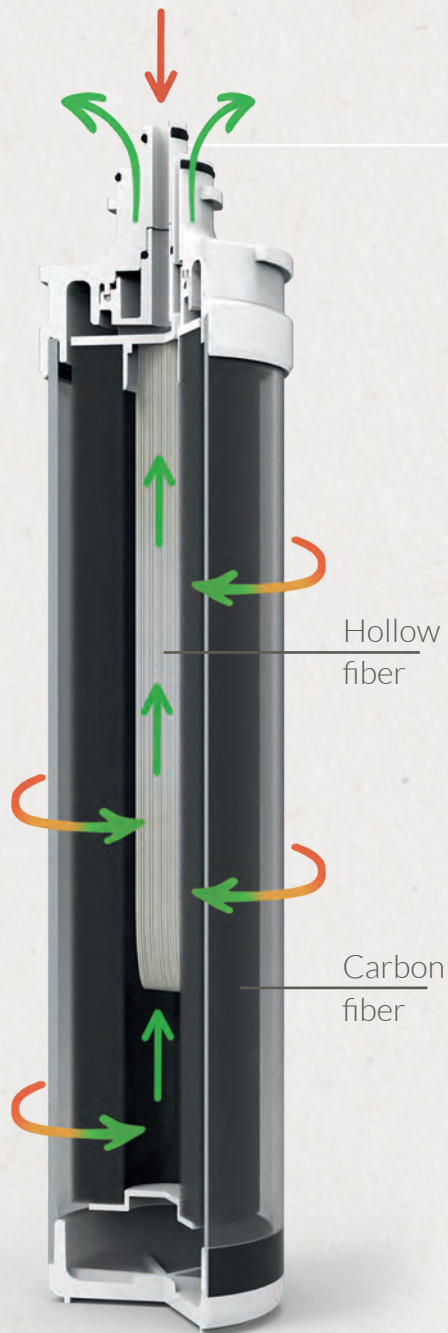
PARTICLES



CHEMICAL



MICROPLASTICS
> 0.5 microns



WHERE MEDIA AND COMPONENTS ARE ASSEMBLED TO FIND THE BEST WATER TREATMENT SOLUTION

WATER CARE FILTERS CARTRIDGES

FIBER PLUS

- 0.01 MICRON HOLLOW FIBER NANOFILTRATION
- ABSOLUTE DETENTION OF VIRUSES, BACTERIA, ENDOTOXINS, CONTAMINANTS AND MICROPLASTICS
- LARGE FILTER AREA
- PERSISTENCE OVER TIME OF THE FILTERING EFFICACY
- LARGE CONSTANT FLOW due to the large filter area
- ESSENTIAL MINERAL SALTS ARE NOT REMOVED FROM WATER

REMOVE:



VIRUS



BACTERIA



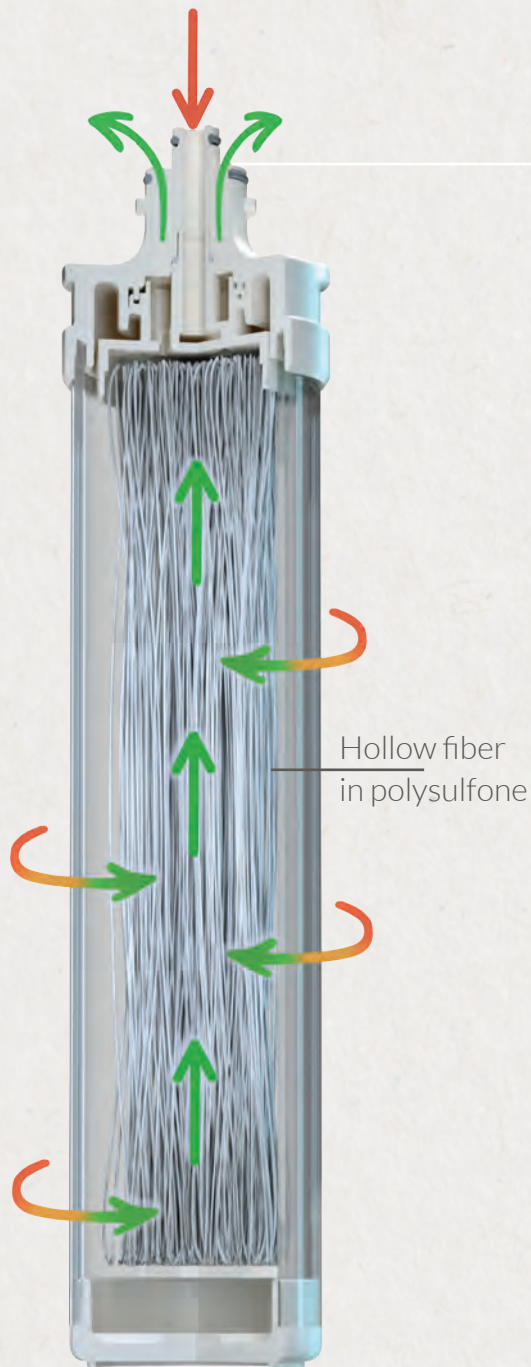
PARTICLES

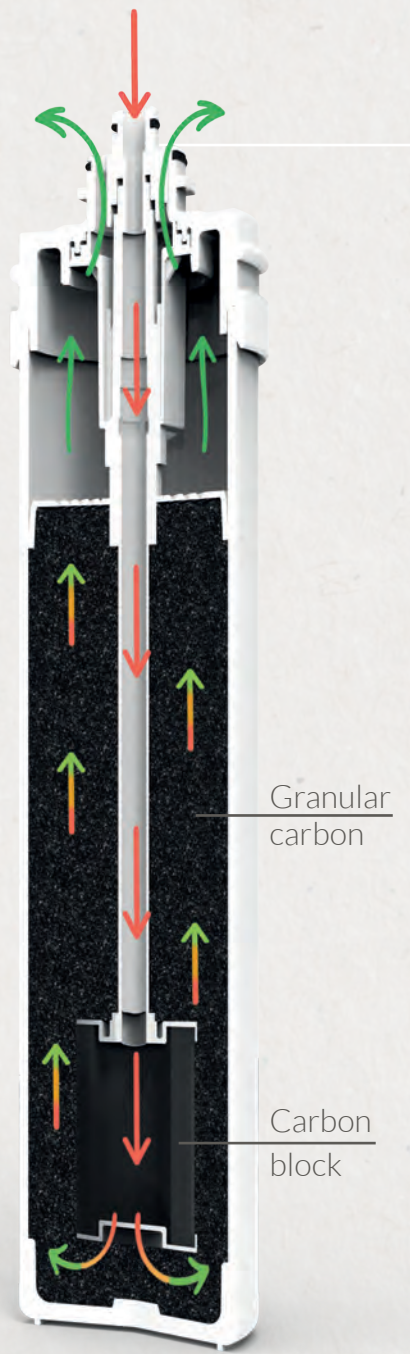


ENDOTOXIN



MICROPLASTICS
> 5 microns





WATER CARE FILTERS CARTRIDGES

GAC

- MULTI STAGE OF FILTRATION
- STAGE WITH A 5-MICRON MELT-BLOWN SEDIMENT FILTER
- STAGE WITH ACTIVATED CARBON GRANULAR MATERIAL FOR ORGANIC SUBSTANCES REMOVAL
- THE OPTIMAL SOLUTION FOR LIGHT AND FILTERED WATER

REMOVE:



PESTICIDES



CHEMICAL

WHERE MEDIA AND COMPONENTS ARE ASSEMBLED TO FIND THE BEST WATER TREATMENT SOLUTION

WATER CARE FILTERS CARTRIDGES

TECHNO

- VERSATILE INTERNAL STRUCTURE
- EVERY POLLUTANT CAN BE DETAINED due to its specific filter media
- FLOW RATE OPTIMISED TO ENSURE THE MAXIMUM EFFECTIVENESS OF REDUCTION AND MAXIMIZE THE DURATION OF THE FILTER

REMOVE:



PESTICIDES



CHEMICAL



PARTICLES
> 5 microns



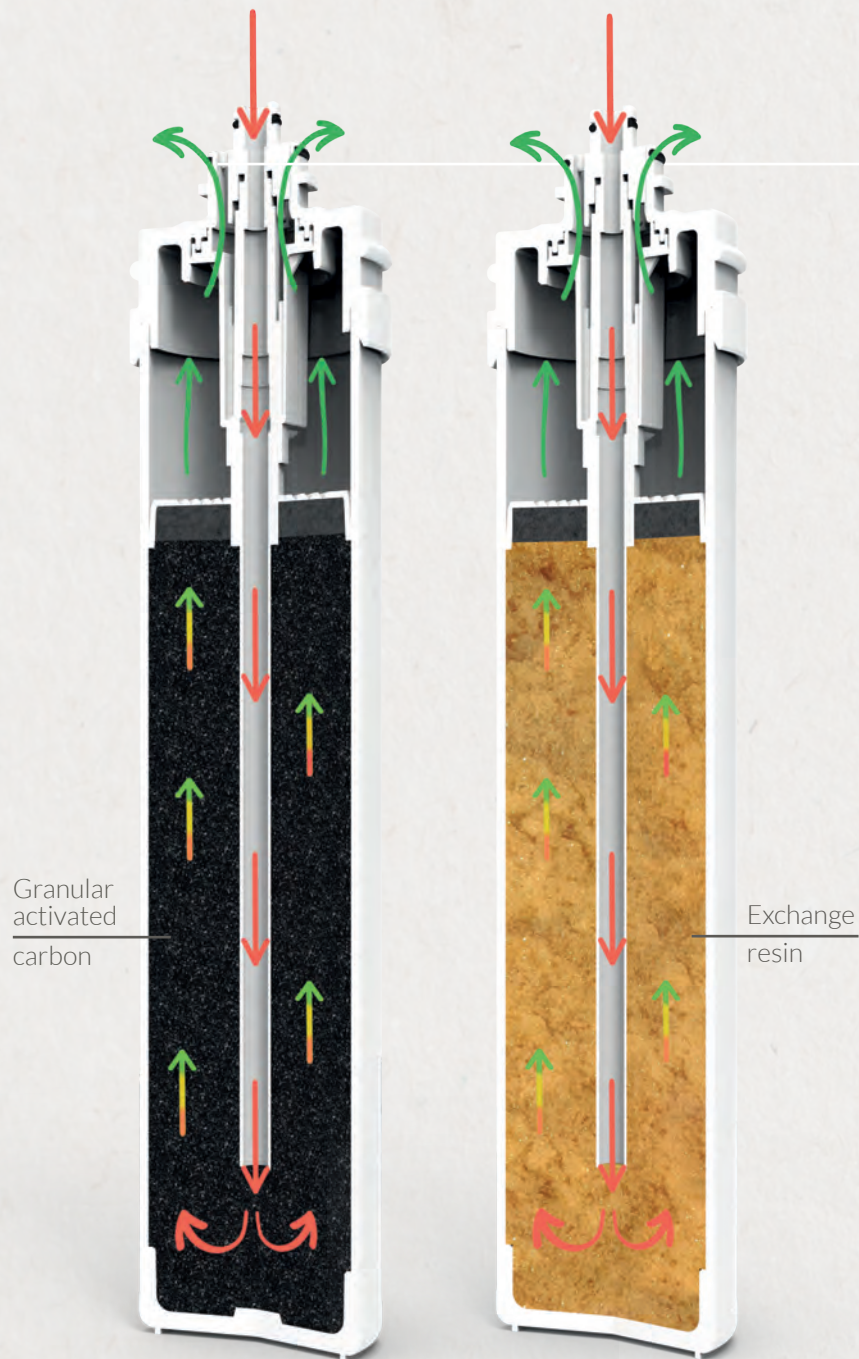
MICROPLASTICS
> 5 microns



HEAVY METAL



PHARMACEUTICAL



WHERE MEDIA AND COMPONENTS ARE ASSEMBLED TO FIND THE BEST WATER TREATMENT SOLUTION

BOX REFINER®

**THE IDEAL CHOICE TO ENJOY CLEAN AND SUPERIOR
QUALITY WATER, DIRECTLY FROM THE HOUSE TAP**

Thanks to its compact design is the ideal system to install under the sink.

THE BOX INCLUDES:

- A REFINER® composite filter 250 Ag
- A polypropylene filter head, with side connections of 8 mm diameter
- A Single Lever American Style Faucet
- A digital litre counter to monitor the number of litres dispensed and the exhaustion of the cartridge
- Instruction manual for quick and easy installation
- Set of pipes and fittings



MICROBOX

**THE COMPACT FILTRATION SOLUTION DESIGNED TO
DISPENSE STILL, MICROFILTERED WATER AT ROOM
TEMPERATURE FOR DOMESTIC USE**

Made of **polished painted sheet metal**, depending on the model can be composed by:

- Filter head with Rapid System connection
- Digital litre counter to monitor the number of liters dispensed and exhaustion of the cartridge
- UV lamp
- Instruction manual for quick and easy installation
- Set of pipes and fittings for installation



CERTIFICATIONS



Water Care Filters

is part of the Italbedis Group and in possession of the certification of the ISO 9001:2015 Quality System issued by the TÜV certification body.

D.M. 25/2012
D.M. 174/2004

Italian Certification



ICIM
Certified product
Materials in contact
with water



ICIM
Certified product
Food contact
material



FCM
Food contact
material



PZH
Polish
Certification



ACS
French
Certification



NSF/ANSI 42
certified by
IAPMO R&T to
NSF/ANSI 42



WRAS
Water Regulations
Advisory Scheme



EAC
Russian
Certification

Note: Not all of our filters are certified. Please check the product specifications for details on available certifications.

We care about climate

Water Care Filters S.r.l.

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WATER CARE
FILTERS 
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