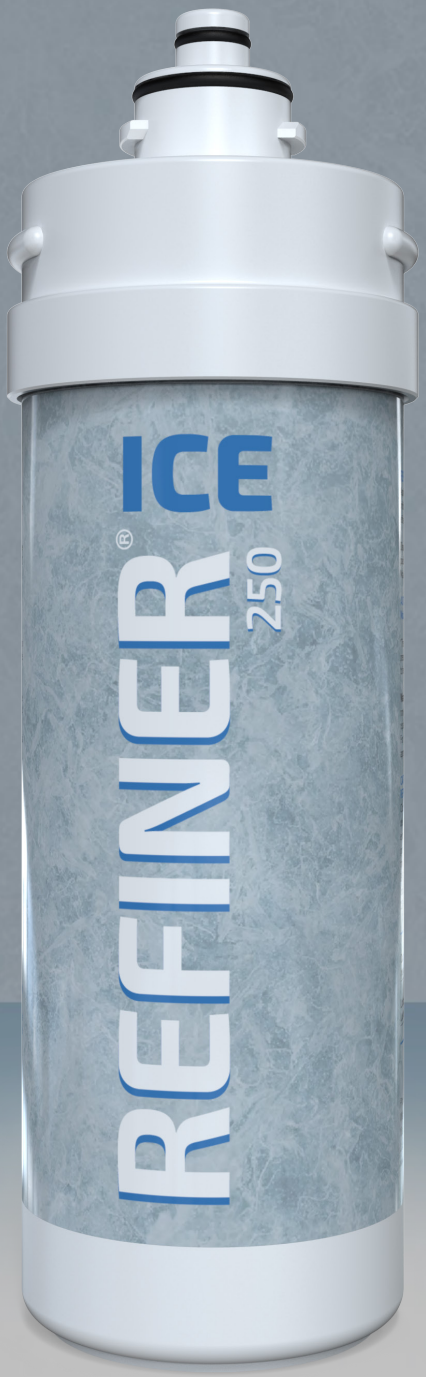
REFINER®

ICE



WATER CARE

FILTERS

RAPID SYSTEM CONNECTION

REFINER® ICE

WITH THE ADDITION OF POLY PHOSPHATES

FILTER 250 | FILTER 350 | FILTER 500 | FILTER 600



REFINER® ICE filters combine the use of polyphosphates, which inhibit the formation of limestone, with the Refiner® microfiltration system. The combination of these two technologies ensures the production of crystalline ice enhancing brilliance and transparency.

REFINER® ICE filters guarantee a degree of filtering of 0.5 microns, thanks to the combined action of the:

- **double surface polyethylene fibre membrane,** with its special drain that guarantees an optimum mechanical action, retaining suspended microparticles rust, mould and algae;
- **powdered activated carbon,** obtained from coconut, effectively removes chlorine and its derivatives and reduces metals and toxic organic compounds;
- **Ag principle,** in other words the **silver salts** with which the carbon is impregnated, plays an important bacteriostatic role in preventing bacteria from multiplying inside the filter.

Filters with **RAPID SYSTEM** CONNECTION combined with a special head.
The connection is compatible with the heads of the main products on the market.

Filter	Code	Size	Diameter	Flow Rate	Autonomy
REFINER® ICE 250	R13004	268 mm	Ø 79 mm	200 l/h*	10.000 l
REFINER® ICE 350	R13005	385 mm	Ø 79 mm	350 l/h*	15.000 l
REFINER® ICE 500	R13006	535 mm	Ø 79 mm	420 l/h*	35.000 l
REFINER® ICE 600	R14160	620 mm	Ø 79 mm	420 l/h*	45.000 l

To calculate the duration, 1ppm of chlorine is considered in the water to be treated.
** The flow can very in operation of the pressure in entrance.*

RS AVAILABLE WITH CONNECTIONS: **RAPID SYSTEM**

CONTROLLED-RELEASE POLYPHOSPHATE FILTER. THE POTABLE WATER LIMIT IS NOT EXCEEDED; PROLONGED USE IS RECOMMENDED

EQUIPMENT COMPLIES WITH: **D.M. 25/2012- D.M. 174/2004**

Vertical operation. **Temperature**: to 3°C from 30°C (39°-92°f). **Operating pressure**: to 1 from 7 bar (15-100 psi) no shock.

NOTE: this equipment requires regular periodic maintenance in order to ensure the potable water requirements of the treated drinking water and to maintain the improvements as stated by the manufacturer. Do not use with non-potable water. After long periods of inactivity (3-4 weeks), carry out a thorough sanitization of the plumbing system downstream of the filter or replace the filter.

RAPID SYSTEM CONNECTION

REFINER® ICE

REFINER® ICE filters from Water Care Filters are designed to produce crystal clear ice with exceptional brilliance and transparency. Thanks to advanced REFINER technology and the use of polyphosphates, they guarantee superior results.

- Maximum safety and degree of filtration
- Minimum flow loss and maximum flow rate
- High autonomy
- Bacteriostic



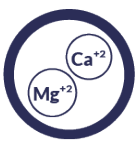
Pesticides



Chemical



Microplastics



Hardness

RAPID SYSTEM CONNECTION

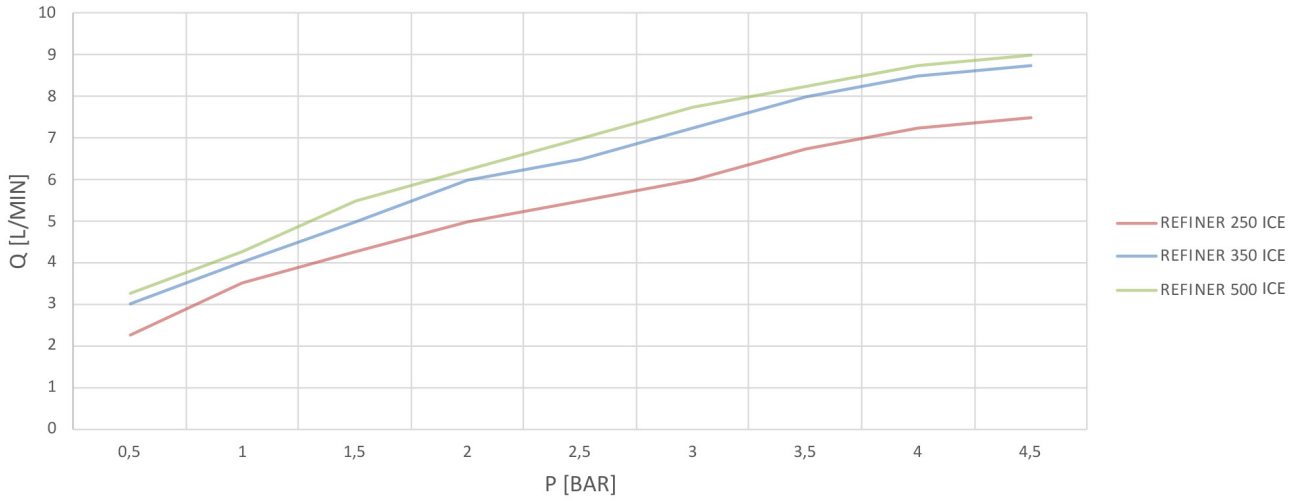
REFINER® ICE

PERFORMANCE: FLOW – PRESSURE

The purpose of the test is to define a typical flow/pressure curve for the **REFINER® ICE** filter.

> The filter was installed in a circuit supplied with tap water at ambient temperature. After an initial flushing of 50 liters used to ensure the expulsion of the finest particulates, the pressure was manually increased in increments of 0.5 bar, and the corresponding flow rate was read on a flow meter and recorded.

Below is the graph resulting from the collected data regarding the three **REFINER® ICE** models:



> The flow rate is a parameter that strongly depends on the quality of the feed water; therefore, a high level of water contamination (high SDI, high suspended solids content) is reflected in a reduced flow rate and filter lifespan.

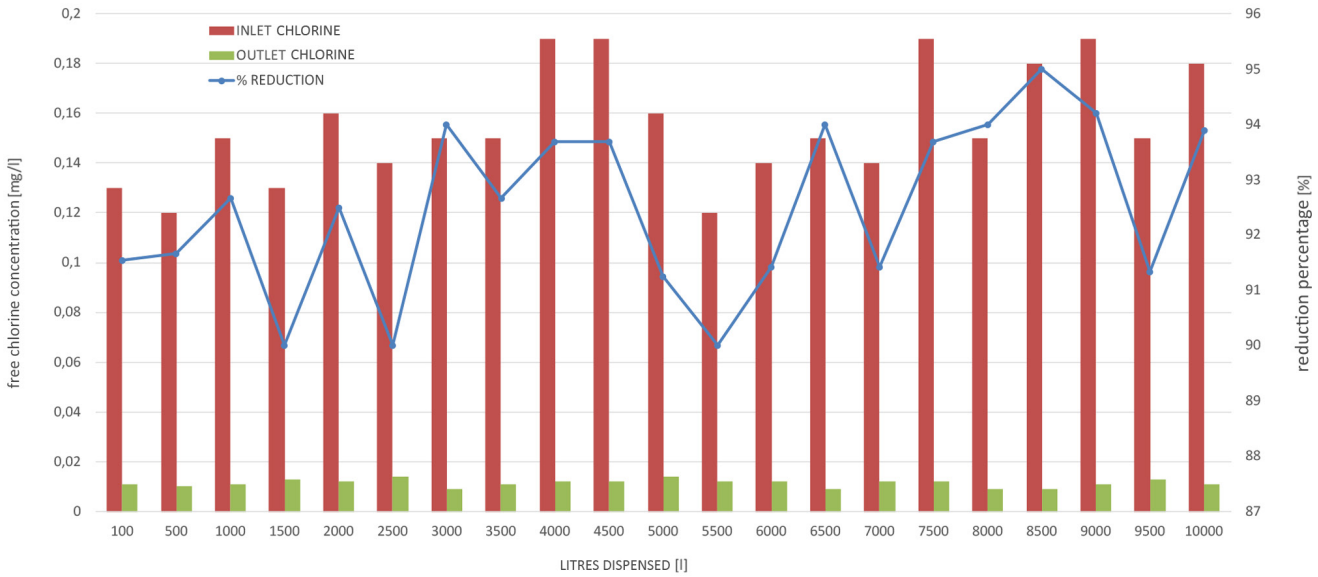
RAPID SYSTEM CONNECTION

REFINER® ICE

PERFORMANCE: CHLORINE REMOVAL

> The purpose of the test is to determine the efficiency of the **REFINER® ICE** 250 system in reducing free chlorine present in the tap water.

Here is the graph resulting from the collected data:



> The **REFINER® ICE** 250 system, in reference to a supply of 10,000 liters and with a chlorine content between 0.15 and 0.2 mg/L (as per regulations), has been shown to ensure a reduction of between 90% and 95% for its entire lifespan.

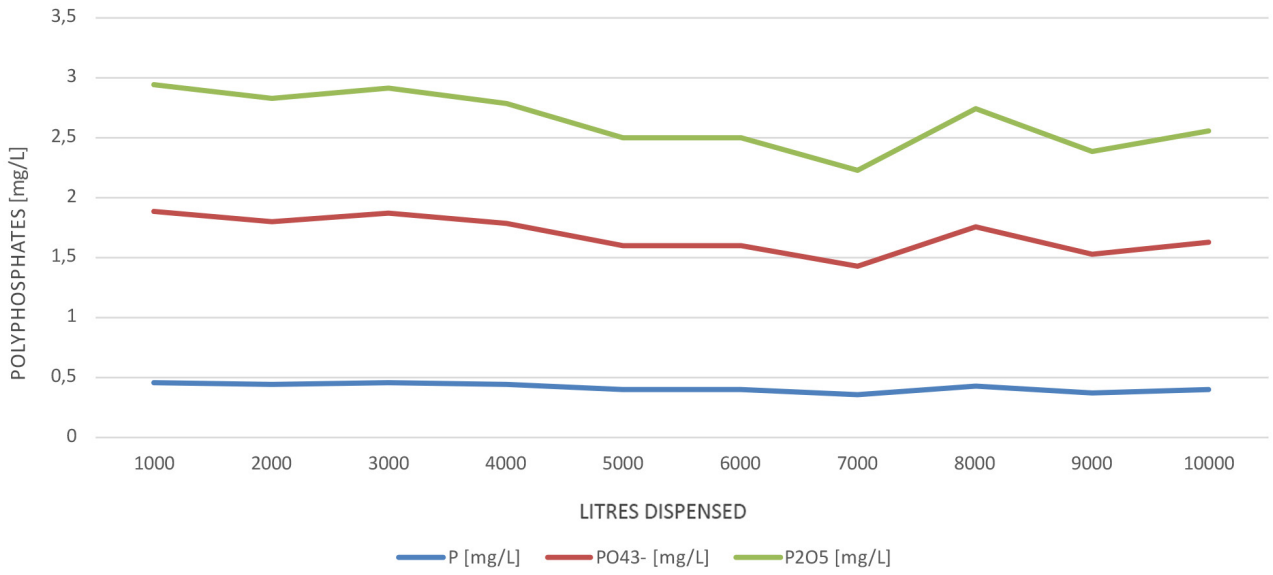
RAPID SYSTEM CONNECTION

REFINER® ICE

PERFORMANCE: RELEASE OF POLYPHOSPHATES

> The purpose of the test is to establish the efficiency of the **REFINER® ICE** filter in releasing the polyphosphates contained within it.

Here is the graph resulting from the collected data:



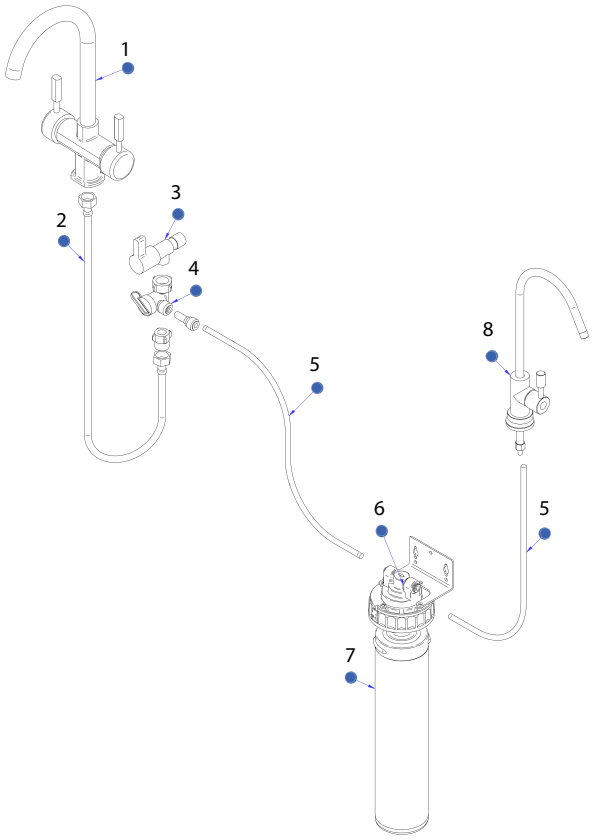
> The **REFINER® ICE** 250 system, with reference to a supply of 10,000 liters, has proven to be consistent in the release of polyphosphates throughout the entire lifespan of the filter, always keeping the values within legal limits.

RAPID SYSTEM CONNECTION

REFINER® ICE

REFINER® ICE filters guarantee high flow rates and autonomy as well as a low pressure drop.

- No electricity required
- Ideal for safe drinking and cooking
- Disposable filter filter
- Easy installation and replacement
- Vertical installation
- Improves the taste
- Reduction of chlorine
- Particulate reduction in suspension
- Technology: Precoat, activated carbon powder (PAC), polyphosphates
- Filtration degree: 0.5 microns
- Autonomy: (see table) this varies depending on the quality inletwater, the required flow rate, the inlet water pressure and filter use
- Flow: (see table ref. flow)
- Temperature: 3-30
- Pressure: 1-7 bar (15-100 psi), no shock
- Activation: We recommend letting the water flow through the filter at maximum pressure and with maximum flow for a durationof 5 minutes so that purge the air in the cartridge
- Changing cartridges: we recommend changing equipment annually and/or every 6 months when the its autonomy is terminated or when the flow arrives too slow (e.g. when it falls below 2 l/min).



RS AVAILABLE WITH CONNECTIONS: **RAPID SYSTEM**

CONTROLLED-RELEASE POLYPHOSPHATE FILTER. THE POTABLE WATER LIMIT IS NOT EXCEEDED; PROLONGED USE IS RECOMMENDED

EQUIPMENT COMPLIES WITH: D.M. 25/2012- D.M. 174/2004

* The filter must work vertically, it cannot be positioned horizontally. This is to prevent the formation of air pockets inside the cartridge that could create preferential routes for water by reducing the filtering capacity and the effectiveness of the filter.

Filter mounting diagram: ❶ Sink fauce ❷ Water supply ❸ Water outlet water supply ❹ Withdrawal valve ❺ Tube PE 8X6 JG ❻ Filterholder head ❼ WCF filter ❽ American Style tap

INTERNAL SECTION

RENDER 3D





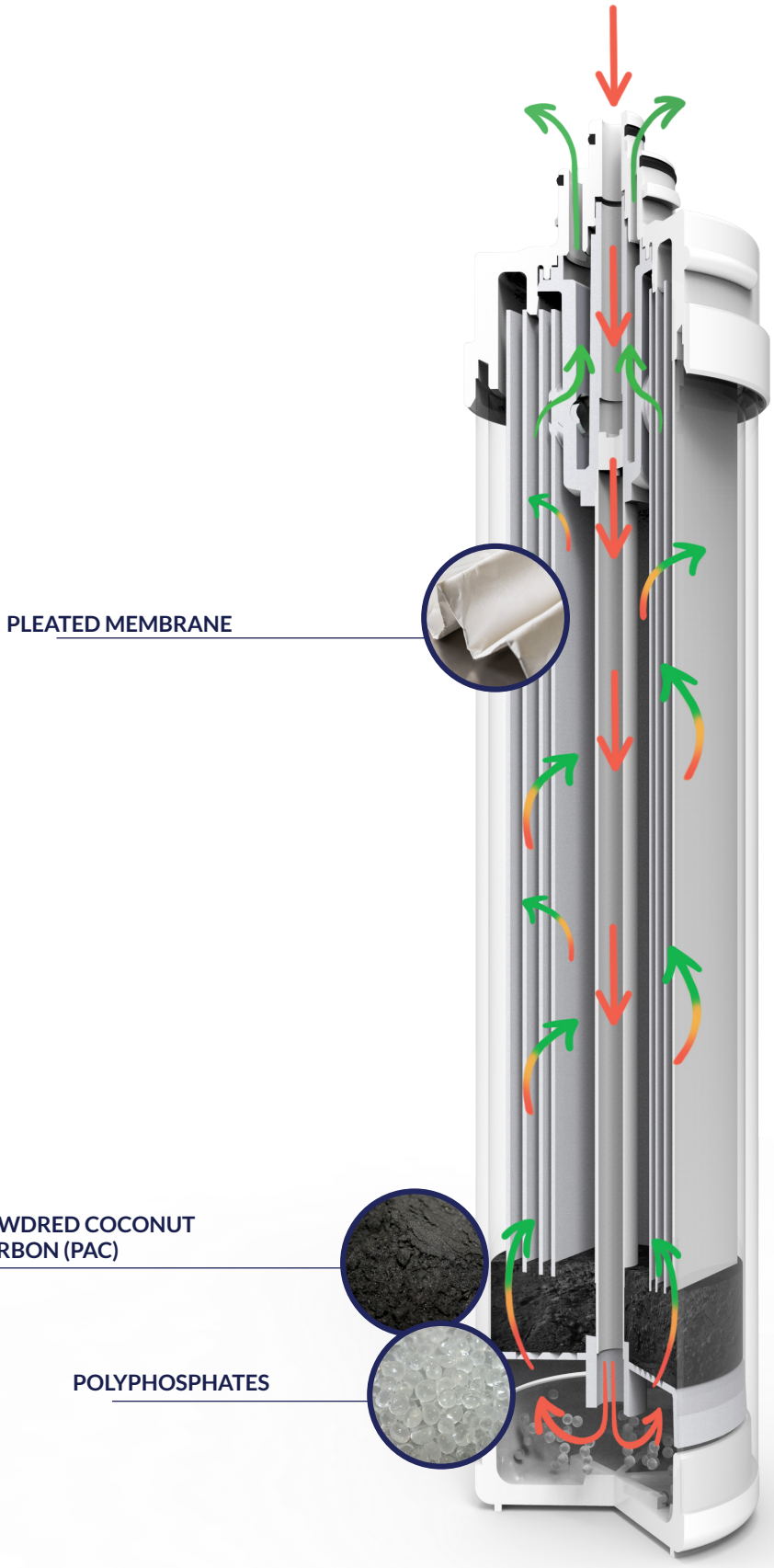
Microfilter pleated membrane with large surface, made of fabric-nonwoven material (TNT) composed of micro polyethylene fibers, pressed and calendered at high temperature.



Active charcoal powder (PAC) of plant origin, produced by burning coconut activated with water vapor.
The dusty conformation guarantees the coal greater porosity compared to granular coal, making it much more effective in the adsorption capacity of polluting chemicals and facilitates perfect adhesion to the membrane surface.



Inorganic compounds of spherical shape, with a diameter of a few millimeters, which dissolve in water very slowly at controlled concentration. These compounds are mainly used to inhibit the formation of limestone incrustations and avoid the precipitation of materials. They also protect pipes and metal surfaces by preventing the formation of corrosion flakes, thus preventing rust from forming in the pipes.



CHEMICAL

MICROPLASTICS

HARDNESS

PESTICIDES

TECHNICAL INFO **BOX**

REFINER® ICE

FILTER 250 · FILTER 350 · FILTER 500 · FILTER 600



Product	Code	Nr of Pcs for Box	Box Weight	Box Size
REFINER® ICE 250	R13004	6	2,40 Kg	280X250X170
REFINER® ICE 350	R13005	6	3,30 Kg	400X250X170
REFINER® ICE 500	R13006	6	4,80 Kg	550X250X170
REFINER® ICE 600	R14160	5	5,80 kg	235x230x640

TECHNICAL INFO **PALLET**

REFINER® ICE

FILTER 250 · FILTER 350 · FILTER 500 · FILTER 600



Product	Code	Nr of Pcs for Pallet	Nr of Levels for Pallet	Nr of Boxes for Pallet	Pallet Weight	Pallet Size
REFINER® ICE 250	R13004	576	8	96	300 Kg	120 x 80 x 150
REFINER® ICE 350	R13005	432	9	72	340 Kg	120 x 80 x 168
REFINER® ICE 500	R13006	324	9	54	398 Kg	120 x 80 x 168
REFINER® ICE 600	R14160	150	2	30	870 Kg	120 x 80 x 168

including 1 pallet (of 10 Kg)


PH
250
REFINER
REFINER

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