



# PENTAIR FILTRATION

NO BETTER CHOICE  
FOR YOUR FILTRATION  
NEEDS

[www.pentairaquaeurope.com](http://www.pentairaquaeurope.com)

Our filtration range offers the highest performing products available, viewed as the one -stop-shop for all filtration needs.

It covers a wide range of applications, ranging from basic taste and odor removal or particle filtration to state-of-the-art reverse osmosis membrane technology.

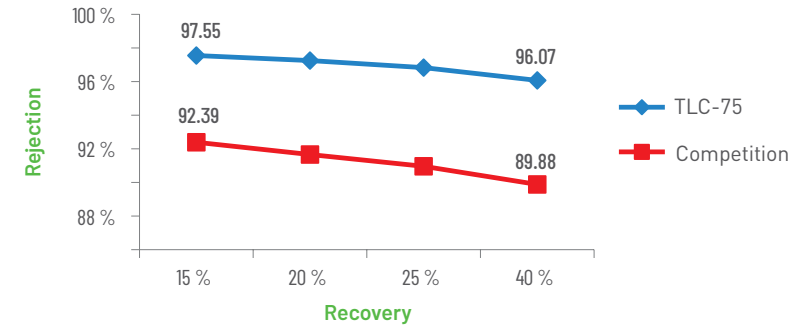
### PENTAIR TLC RO MEMBRANES: HIGH REJECTION STABILITY EVEN AT HIGH INPUT TDS

Whatever the amount of total dissolved solids from the inlet water, TLC membranes will always give **optimal performances**\*. For more information about reverse osmosis membranes, refer to the brochure «Pentair residential RO membranes».

\* Results obtained from internal testings (more testing results are available upon request).

#### Rejection rate : TLC 75 vs competition

Testing conditions : 3.5 bar feed pressure and 1000 ppm of TDS



**Rejection:** percentage of Total Dissolved Solids (TDS) removed from the inlet water. The higher the rejection is, the better the membrane performs. **Recovery:** quantity of filtered water produced compared with the quantity of water sent to the drain. The higher the recovery, the lower the rejection. **Pentair TLC 75 membrane gives better results:** the rejection remains stable between 98% and 96% even at 1000 ppm and 40% of recovery. Meanwhile, the one from competition is lower (92 to 89%).

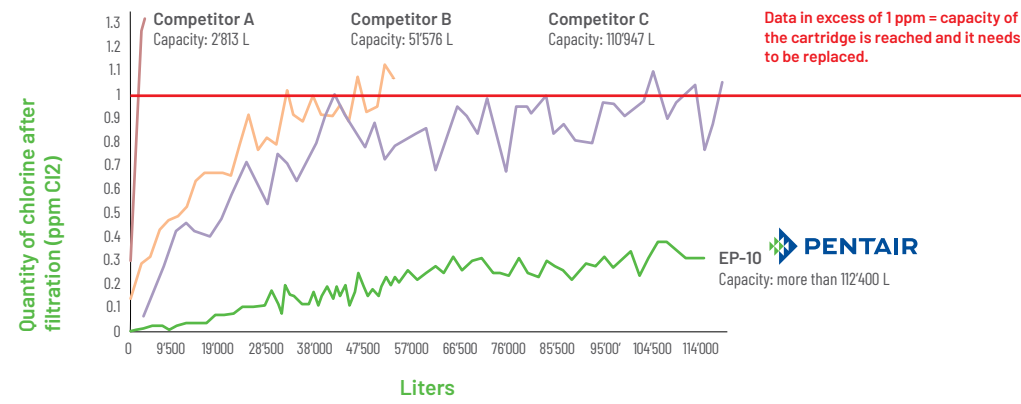
### PENTAIR EP CARBON BLOCKS: BEST LIFETIME AND CHLORINE REDUCTION

Our EP series of blocks has the best lifetime compared to competition. The chlorine reduction remains stable, well below the maximum safe threshold of 1ppm, even after having filtered more than 112'000 liters of water\*.

\* Results obtained from internal testings (more testing results are available upon request).

#### Chlorine Reduction: EP-10 vs competition

Testing conditions : 10", 5µm cartridges. 4 bar feed pressure - 2 ppm of Cl2



Whereas all blocks from competition failed at 15 days of testing or before (competitor A failed after 8 hours of testing), the EP-10 was still performing after 20 days of testing. From the end user point of view, the cost of filtered water per m<sup>3</sup> with a Pentair EP10 cartridge will be 96% cheaper.

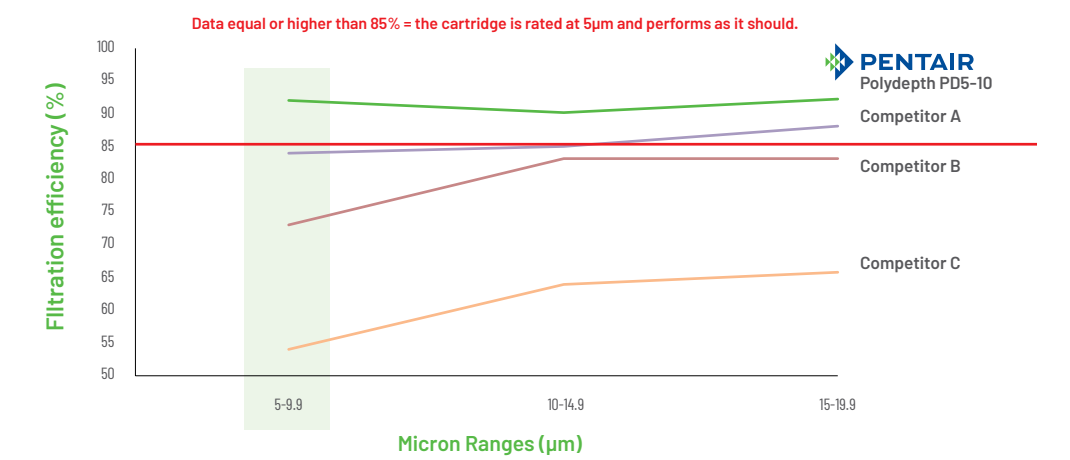
### PENTAIR POLYDEPTH SEDIMENT CARTRIDGES: BEST FILTRATION EFFICIENCY

Our Polydepth series of sediment cartridges has the best filtration efficiency when compared to cartridges from competition\*.

\* Results obtained from internal testings (more testing results are available upon request).

#### Filtration efficiency: Polydepth vs competition

Testing conditions : 10", 5µm cartridges. Maintained flow rate of 3.8 lpm. Mix of fine test dust.



Out of all tested cartridges, Pentair Polydepth is the only one that keeps its promise of effectively reducing particles bigger than 5µm, delivering a quality that is lasting and superior to standards. Competitor C, which despite being the most attractive in terms of price, never reaches these same standards.

## The complete range of Pentair filtration components

	Housings		RO membranes		Carbon cartridges			Inline cartridges			Sediment cartridges			Specialty cartridges				Filter bags	
	Plastic housings	Stainless steel housings	TLC series	GRO series	Carbon blocks	Granular activated carbons	Impregnated carbons	IC series	TS series	GS series	Meltblown cartridges	Wound cartridges	Pleated cartridges	OAC Plus 20"BB cartridge	PCF series	RFFE series	PCC series	BP series	KO series
Type	POU/POE	POE	POU		POU/POE			POU			POU/POE			POU/POE				POE	
Applications	Residential & commercial, prefiltration	Industrial, filtration	Residential, dissolved solids removal		Residential & commercial, taste & odor removal			Residential, postfiltration			Residential, commercial & industrial, particle filtration			Residential and commercial applications				Commercial & industrial, particle filtration	
Features	Features our well known standard, valve in head, Slim line, 3G standard, Big blue, all natural and high temperature housings	Available for cartridges & bags with clamps, flange or davit design	100% dry membrane	Double recovery vs standard RO membranes (50% instead of 25%)	Features our well known Diamond flow, EPM, EP, Chlorplus, CBC, SCBC, CBR2, CCBC and Floplus series	Features our well known GAC, CC, TSGAC and RFC series	Features our well known C and NCP series	Manufactured with coconut shell granular activated carbon	Contains a combination of GAC and polyphosphate crystals	Various combinations of different media	Features our well known P, Polydepth and DGD series	Features our well known SWP, WWP, WF and WC series	Features our well known ECP, R, Polyval and SHG series	Made of a Pentair proprietary filter media using fibredyne technology	Manufactured with high-capacity, semi-conductor-grade resin	Designed to provide an easy and effective method of reducing iron from water	Contain hexametaphosphate crystals	Glazed finish created by melting the outermost surface fibers	Multi-layered filtering capabilities
Benefits	Please refer to our Pentair housings brochure for more information on each family	Please refer to our Pentair housings brochure for more information on each family	Optimised shelf life	3 times less water rejected to the drain (1:1 with GRO and 1:4 with standard RO)	Please refer to our Pentair carbon cartridges brochure for more information on each family	Please refer to our Pentair carbon cartridges brochure for more information on each family	Please refer to our Pentair carbon cartridges brochure for more information on each family	Very good unwanted taste & odor reduction	Inhibits lime/scale build-up	Meets requirements of challenging applications	Please refer to our Pentair sediment cartridges brochure for more information on each family	Please refer to our Pentair sediment cartridges brochure for more information on each family	Please refer to our Pentair sediment cartridges brochure for more information on each family	Can hold up to 340 percent of its own weight with no release of removed hydrocarbons	Ideal for use in pharmaceutical and medical laboratories, cosmetics and circuit board printing applications	Reduces the metallic taste caused by iron, eliminates orange and brown stains often found in sinks and toilets	Lime and scale deposits prevention	Bond that reduces the possibility of migration	Higher dirt-holding capacities and fewer change-outs

## PENTAIR

With a focus on residential and commercial water treatment markets, Pentair's specialized filtration products include filter housings, sediment and carbon as well as filter bags and RO membranes.

Pentair products remove contaminants and suspended solids, providing clean and safe drinking water. Pentair is key to protect and extend the life of household appliances and critical equipments, its expertise also allows professionals to service industrial applications with peace of mind.



Pentair of Dover, US



Pentair of Suzhou, China



Pentair of Reynosa, Mexico

## MANUFACTURING SITES

Our filtration components are made in 3 different locations each one having its own specialty. Pentair in Dover is dedicated to our well known Fibredyne cartridges. Our manufacturing site in Suzhou is the center of expertise for RO membranes as well as carbon blocks. Pentair Reynosa in Mexico mainly focuses on housings and pleated cartridges. Pentair Suzhou and Reynosa are ISO 9001:2008 certified.

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