EFFICPOOL REGENERATIVE FILTERS.

High efficiency and sustainability in swimming pools and aquatic facilities

Discover the Efficpool regenerative filter system as a solution to maintain the purity and quality of water in swimming pools and aquatic facilities, as well as achieving significant savings in maintenance costs.
The Efficpool range stands out for its high efficiency and robust construction, using corrosion-resistant materials that guarantee a long service life.

Efficient simplicity. Simple and robust filtration system without external blowers or compressors that reduces energy and water consumption. Efficpool is ideal for continuous operation in demanding environments such as spas, water parks and spas, sports centres, etc., always complying with current regulations (EN-13451, RD 742/2013).

Flexible. Choose from stainless steel, polyethylene, or fiberglass-reinforced polyester models, each designed for durability, strength, and easy maintenance. Efficpool offers mounting options with manual or automatic valves, adapting to your specific needs.

Eco-responsible. With Efficpool, you not only guarantee clean and safe water, but also contribute to the care of the environment, not only thanks to the low consumption of water and energy, but also to its high recyclability of the HI and HPE models.

Industry 4.0. Efficpool products are aligned with industry 4.0, remote access to the installation, providing maximum performance in terms of efficiency and sustainability in the pool filtration/purification system.

Common advantages and features

- Particle retention up to 1µm.
- Retention of 99.9% of protozoa, including cryptosporidium.
- Chloramine reduction.
- Greater water transparency.
- 90% less water consumption.
- 50% less energy consumed.
- 75% less space required.
- 30% less chemicals.
- Reduced filter maintenance time.
- They do not need (or support) flocculants.
- Large diameter manhole for quick and safe maintenance.
- Large range of diameters and working volumes.
- Adapted flow rates up to more than 500 m^3/h.
- Normalised threaded or flanged connections.
- Optional accessories: pressure gauges, safety valves, suction cups, automatic valves.

Available models:

- Efficpool HI. Body in AISI 316L stainless steel. Made of high chemical and mechanical resistant stainless steel and satin anti-fingerprint finish and easy cleaning.
- HPE Efficpool. Body in PE-100 polyethylene. Construction in high-density polyethylene (PE-100) that withstands seawater and is 100% recyclable and environmentally friendly.
- Efficpool GRP. Body in fiberglass-reinforced polyester with vertical outlet (VPRFV) or horizontal outlet (HPRFV) of high durability, light and robust and withstanding seawater.

Added value:

- Custom manufacturing according to the needs of the project.
- Specialized technical service and on-site support.
- Extensive distribution network and spare parts stock.
- Turnkey solutions with hydraulic integration and automation

Chemical and oxidation resistance table

Model	Body Material	Chemical resistance chlorinated/urban water	Chemical resistance salt water	Oxidation resistance
HI	AISI 316L stainless steel	**Excellent.** It does not present corrosion or degradation by chlorine or products used in urban swimming pools (<2000 ppm chlorides).	Only suitable in the short term and for operations with low chloride content (up to 2000 ppm).	**Very high.** It forms a passivated layer of chromium oxide that protects it except in prolonged saline environments.
HPE	Polyethylene PE-100	**Excellent**. It resists the chemical agents used in swimming pools (chlorine, dilute acids and pH,... products) without degrading.	**Excellent.** Resistance to salt water and pool products associated with salinity (salt electrolysis system).	**Very high.** It does not undergo metallic or electrochemical oxidation. It can degrade by sustained thermal oxidation (from 65-70ºC) and by prolonged exposure to UV radiation.
PRFV (HPRFV/VPRFV) on demand	Fiberglass-reinforced polyester	**Very high** when using Isophthalic resin as a chemical barrier and Orthophthalic resin as mechanical reinforcement		

Table of applications and benefits

Model	Recommended Applications	Key benefits
HI	Public swimming pools, spas, premium spas, sports centers, water parks, low-maintenance projects and facilities with intensive use and water requirements with high purity indexes.	Maximum durability, premium aesthetics, easy cleaning. Large diameter range. Large and medium diameter filters. **Recyclable.**
HPE		Robust monobloc, low inlay. Medium (< 900mm) and small diameter filters. **Recyclable.**
PRFV (HPRFV/VPRFV) on demand		Lightweight, economical, large diameter range. Large and medium diameter filters. Not recyclable.

Model and Capacity Table (Custom sizes available.)

Model	Candels	Filter area (m²)			Flow rate as a function of speed (m³/h/m²)								
		Base	L	XL	LC 1000 (Base)			LC 1300 (L)			LC 1600 (XL)		
					V=1.3	V=3.3	V=4.8	V=1.3	V=3.3	V=4.8	V=1.3	V=3.3	V=4.8
HI-450	73	7,9	-	-	10,3	26	37,9	-	-	-	-	-	-
HI-600	139	15	19,5	-	19,5	49,6	72,1	25,4	64,4	93,7	-	-	-
HI-800	254	27,4	35,7	43,9	35,7	90,6	131,7	46,4	117,7	171,2	57,1	144,9	210,8
HI-1000	421	45,5	59,1	72,8	59,1	150,1	218,3	76,9	195,1	283,8	94,6	240,2	349,3
HI-1200	570	61,6	80,1	98,5	80,1	203,2	295,6	104,1	264,2	384,3	128,1	325,2	473
HI-1400	792	85,6	111,2	136,9	111,2	282,4	410,7	144,6	367,1	533,9	178	451,8	657,2
HI-1600	1044	112,8	146,6	180,5	146,6	372,2	541,4	190,6	483,9	703,8	234,6	595,6	866,3
HPE-315	31	3,3	4,4	5,4	4,4	11,1	16,1	5,7	14,4	20,9	7,0	17,7	25,7
HPE-400	48	5,2	6,7	8,3	6,7	17,1	24,9	8,8	22,2	32,4	10,8	27,4	39,8
HPE-500	76	8,2	10,7	13,1	10,7	27,1	39,4	13,9	35,2	51,2	17,1	43,4	63,1
HPE-630	126	13,6	17,7	21,8	17,7	44,9	65,3	23,0	58,4	84,9	28,3	71,9	104,5
HPE-800	211	22,8	29,6	36,5	29,6	75,2	109,4	38,5	97,8	142,2	47,4	120,4	175,1
PRFV (HPRFV/VPRFV) - Fiberglass-reinforced polyester series available upon consultation.													

Candelas ref. 36.2

For information, additional documentation, prescription calculations, or plans, you may contact:
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