

REGENERATIVE FILTRATION SYSTEM FOR POOLS AND WATER FACILITIES

A sustainable and energy efficiency system for improved water quality and management of collective use pools

efficpool is a special perlite regenerative filtration system that is characterized by its **capacity to filter particles up to 1 micron and low backwash requirement** offering an exceptional water quality together with important savings in the consumption of water, energy and chemicals and installation space.

efficpool is a product aligned to the 4.0 industry, offering the possibility of **monitoring the installation, smart control and remote access**, thus providing maximum performance in terms of efficiency and sustainability in the pool filtration/purification system.

Regenerative filtration:

- Captures particles up to 1µm
- Captures 99.9% of protozoa including cryptosporidium
- Reduction in chloramines
- Increase in water transparency
- 90% reduction in water consumption
- 50% less energy consumed
- 75% less spaced required
- 30% less chemicals
- Reduction in filter maintenance time
- No flocculant required (or accepted)

Monitoring, control and remote access:

- Installation monitoring
- Process control and automation
- Optimization of filtration and treatment
- Remote access to the installation



Characteristics

Regenerative filtration system based on a special perlite filtration medium, with the capacity to filter particles up to 1 micron, offering water of extraordinary quality, exceptional transparency and much healthier, 20-30 times superior to traditional filters.

Low backwashing requirement due to the regenerative capacity of the filtration medium. This leads to a significant reduction in the consumption of water, energy and chemicals, offering an important saving in operating costs and natural resources.

Advanced filtration technology based on a system of membrane collector filters to support the pre-coat, with no need for flocculants. This allows an increase in the filtration area, thus reducing the installation volume and space, ideal in the case of renewing installations.

Programmed regeneration of the filtration medium through a vibration system that permits maximum optimization of the absorption capacity. Once the filtration medium has become saturated, the system issues a warning, at which time the filtration medium has to be replaced.

Replacement of the filtration medium is quick and simple through a vacuum transfer system in semi-automatic mode. This can be carried out by a single operator and takes from 10 to 30 minutes. The filtration equipment has been designed for an average autonomy of 4 weeks.

efficpool product line

efficpool has been designed to obtain maximum performance and efficiency of the installation with a wide range of models, nominal sizes and materials, and is suitable for treating from a small spa to an Olympic-sized pool or water park.

efficpool BASIC*

Filtration system with **basic control panel** for the management and operation of the filtration system. The equipment has all the elements necessary for installation, operation and maintenance. It does not include monitoring, control and remote access to the installation.

efficpool PRO*

Filtration system with **monitored control panel** for smart management of all pool areas and devices. It reports the system status and efficiency in real time. It includes a monitoring panel, smart facility control, recirculated and fresh water control. Pressure sensor.

efficpool PRO VDF*

Filtration system with monitored control panel and remote access to the facility. This option includes all the **PRO version systems and adds the variable frequency drives (VFD)** for the filtration pumps and pump programming to regulate pump velocity based on real-time pool occupancy.

* Design tailored to the installation and the customer's requirements.

efficpool technical data

FILTER MODEL HI

	HI450	HI600	HI600L	HI800	HI800L	HI1000	HI1000L	HI1200	HI1200L	HI1400	HI1400L	HI1600	HI1600L
Product Code	WPP-HI 450	WPP-HI 600	WPP-HI 600L	WPP-HI 800	WPP-HI 800L	WPP-HI 1000	WPP-HI 1000L	WPP-HI 1200	WPP-HI 1200L	WPP-HI 1400	WPP-HI 1400L	WPP-HI 1600	WPP-HI 1600L
Filtration Area m²	7,3	14	18	25	32	41	53	58	75	81	105	105	136
Filtration Flow 1,3-4,8 m³/h/m²	9,5-35	18-67	23-86	32-120	42-154	53-197	69-254	75-278	98-360	105-389	136-504	136-504	177-653
Perlite Load kg	2,5	5	6	9	12	15	19	20	27	28	37	37	48

FILTER MODEL HPRFV

	HI450	HI600	HI600L	HI800	HI800L	HI1000	HI1000L	HI1200	HI1200L	HI1600L
Product Code	WPP-HPRFV 600	WPP-HPRFV 600L	WPP-HPRFV 900	WPP-HPRFV 900L	WPP-HPRFV 1200	WPP-HPRFV 1200L	WPP-HPRFV 1400	WPP-HPRFV 1400L	WPP-HPRFV 1600	WPP-HPRFV 1600L
Filtration Area m²	11	15	32	41	55	70	80	105	120	150
Filtration Flow 1,3-4,8 m³/h/m²	20-53	20-72	42-154	53-197	72-264	91-336	104-384	136-504	156-576	195-720
Perlite Load kg	5	6	13	16	22	28	32	42	48	60

Rapid return on investment: The efficpool system offers a high return on investment thanks to the savings generated in the consumption of water, energy and chemicals. Ask for a study!

