



# PHOSPAT<sup>®</sup>

Filter cartridge to remove phosphate

## INSTALLATION INSTRUCTIONS

### PHOSPAT<sup>®</sup> 3



# PHOSPAT®

## Description



### What is PHOSPAT®?

The PHOSPAT® products line has been developed to assist the removal of phosphates that enter the pools from water supplies, bathers, debris or building elements that compose the pools. The products line has been further completed with other tools to keep under control the water quality of your pool.

### How does PHOSPAT® work?

PHOSPAT® cartridges are able to reduce the concentration of phosphate without adding any chemicals to the water thanks to a brand new active ingredient called Phoslamin®. When the water flows through the cartridge, the Phoslamin® is able to capture and retain phosphates thus preventing algae and bacteria growth, maintaining your water, liner or water pool walls clean and improving the performance of the existing filtering systems.

### Where to use PHOSPAT®?

The PHOSPAT® equipment products are suitable for ponds, natural water pools, public and private swimming pools, waterspout fountains and circulation wells. Each PHOSPAT® product has been designed to be integrated into the pools filtration systems accordingly to their dimensions, water composition and existing features.

### How to use PHOSPAT®?

Depending on which type of pools you have, PHOSPAT® cartridges and filter equipment may be installed accordingly to the instruction provided with each product. Normally, the PHOSPAT® units are installed into the existing water recirculation systems downstream the pre-existing water filters. Here below a brief outline that will help to choose the right product for your application:

<b>PHOSPAT® 1</b>	Filter cartridge for reducing phosphates for water volumes up to 50 m <sup>3</sup>
<b>PHOSPAT® 3</b>	Filter cartridge for reducing phosphates for water volumes up to 150 m <sup>3</sup>
<b>PHOSPAT® FF</b>	Filter cartridge to remove phosphates for first filling water
<b>PHOSPAT® NPF</b>	Filter equipment for reducing phosphates without pre-filter for water volumes variable between 100 and 200 m <sup>3</sup>
<b>PHOSPAT® 10-15</b>	Filter cartridge for reducing phosphates for water volumes starting from 500 m <sup>3</sup> to larger water reserves
<b>PHOSPAT® CIO</b>	Filter cartridge to remove free Chlorine from water
<b>PHOSPAT® Secure</b>	Pre-filter designed for PHOSPAT® 1 and 3
<b>PHOSPAT® Acute</b>	First line precipitating agent for high phosphates concentration

We advise to contact your nearest PHOSPAT® authorized dealer or to visit our website in order to receive more information about our product line: [www.phospat.com](http://www.phospat.com)



# PHOSPAT<sup>®</sup>

Filter cartridge to remove phosphate

## PHOSPAT<sup>®</sup> 3

### General Information

The PHOSPAT<sup>®</sup> 3 filter cartridge is designed to reduce phosphate from water for volumes up to 150 m<sup>3</sup> under optimum conditions. It can be integrated with the existing water treatment systems. More PHOSPAT<sup>®</sup>s units can be combined for larger water volumes.

### Applications Area

- Public and private natural pools, biologic pools and garden pools
- Conventional swimming pools with active disinfection
- Fountains (spring and recirculation)
- Aquariums Installations Version

### Installations Version

For PHOSPAT<sup>®</sup> 3 the flowrate of 3'300 liters per hour should not be exceeded. For an optimal reduction of phosphates with PHOSPAT<sup>®</sup> 3, a flowrate of 2'800 - 3'000 liters per hour is recommended.

Partial flow: PHOSPAT<sup>®</sup> 3 can be used for the above mentioned applications by means of an additional pump, submersible pump, or any other type of pumps in addition to your existing bio- or conventional filters.

By-pass: PHOSPAT<sup>®</sup> 3 can be connected to the existing system directly or by-passed downstream the pump to optimize the flowrate.

### Commissioning

1. Connect PHOSPAT<sup>®</sup> 3 to a normal garden pipe downstream your existing filtration system to the rinse inlet direction. Rinse the cartridge slowly until no residue (red-brown suspension) will be observable. Disconnect the cartridge;
2. Connect PHOSPAT<sup>®</sup> 3 to the operating inlet direction with the recirculating water flow or partial flow of your pond, controlling that the flowrate is within the recommended limits;
3. We recommend a regular flow-check to make sure that the water flow is constant and with an optimal flowrate.

### Advice

1. PHOSPAT<sup>®</sup> 3 should always be used with pre-filtered water since large contaminants or impurities such as suspended matter may clog the cartridge resulting in loss of performance. Without proper pre-filtration, we recommend the use of our PHOSPAT<sup>®</sup> Secure pre-filtration cartridge. In the event that the flow through the cartridge becomes obstructed, please stop the flow, disconnect the cartridge and backwash it as by point no. 1, then proceed with point no.: 2.
2. Please do not open the cartridges, otherwise the content may be lost and/or the correct functioning of the unit may be compromised. Contact your closest PHOSPAT<sup>®</sup> supplier for any further information, questions, or assistance.

# PHOSPAT® 3

## Technical Data

- |                               |                                   |
|-------------------------------|-----------------------------------|
| - PHOSPAT® 3 dimensions:      | ca. 54 cm x 14 cm x 14 cm         |
| - PHOSPAT® 3 weight:          | ca. 8 kg                          |
| - Phosphate-binding capacity: | ca. 270 g $\text{PO}_4^{3-}$      |
| - Flowrate:                   | max. 3'300 liters/hour            |
| - Connection:                 | 2" inch                           |
| - Operating pressure:         | max. 4 bar (monitored, temporary) |
| - Material:                   | PP; PVC connections               |

## Operating Instruction and Security

- The optimal flowrate should be set between 2'800 and 3'000 liters/hour;
- After a long break (i.e. one or more seasons) without using the cartridge please rinse before usage;
- The cartridge must never be unsupervised and set only during the intended period of use for a short time under pressure;
- A fixed connection of the cartridge to a pressure line is forbidden;
- Do not open the cartridge. The material contained may be irritating for the respiratory system, eye and skin;
- The PHOSPAT® is not certified for food & beverage application and it is not suitable for the production of drinking water;
- Instructions and security advices regarding the installation and use of phosphate-free water from the suppliers must be observed in any case and have always priority.



**LEHVOSS Schneider AG**  
Aspstrasse 11  
8472 Winterthur-Seuzach

Phone +41 52 235 24 24  
Fax +41 52 232 80 78  
E-Mail [info@lehvoss.ch](mailto:info@lehvoss.ch)



**hydrotec handels gmbh**  
Lauenburger Strasse 61  
12169 Berlin

Phone +49 30 720 166 16  
Fax +49 30 720 166 17  
E-Mail [hydrotec@berlin.ch](mailto:hydrotec@berlin.ch)



Subject to change. The actual version may be found [www.phospat.com](http://www.phospat.com)