



Engineering Notes

Maintenance procedure : Filtration

CARTRIDGE FILTER CLEANING PROCEDURE

When you should clean the cartridge filter

For a pool filter, the cartridge should be cleaned when there is a pressure drop of around 8 psi (50 kpa) maximum.

For spas, a cleaning routine should be established, based on usage.

For pools and spas that have been previously disinfected with both UVShield® and UVSpa® products, follow the instructions presented below.

Disinfection procedure

Both disinfectants (UVShield® and UVSpa®) are composed of an active compound, biguanide polyhexamethylene (PHMB). This bactericide works by destroying the bacterial cytoplasmic membrane. The intensive cleaning treatment of Oxysteril® oxidises the by-products of the bactericide.

The PHMB is capable of acting like a cationic polymer, first, by gathering all of the dispersed particles resulting from the destruction of the bacteria, and secondly, by agglomerating the suspended particles from the pools or spas immediate environment.

The suspended elements adhere to the surface of the filter cartridge and form a sticky greyish film. This layer must be removed immediately from the media in order to recover the initial characteristics of filtration. The following section describes the cleaning procedure in detail. This procedure must be followed step by step.

The correct procedure for cleaning a filter cartridge

This procedure should be followed rigorously in order that neither problems nor loss of cartridge should occur.

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The UVShield cleaner® should be diluted in water, 40 g per litre. While carrying out the dilution, safety regulations and appropriate protection such as the use of gloves and safety glasses must be used.

The cartridge should be totally or partially immersed in a non reactive (plastic) container.

The cartridge should be immersed for at least an hour. After immersion, the cartridge should be carefully brushed and rinsed in water. The length of the procedure will depend upon the build-up of matter on the filtration media.

After removing the film which was previously stuck to the filter media, the following cleaning procedure needs to be followed:

The use of the product recommended by the filter cartridge manufacturer is essential.

Or

Caustic cleaning should be carried out with our TSP product. This cleaning procedure should be done following the safety regulations mentioned above.

Dilution dose: 1 cup of TSP per 15 litres of water.

The cartridge should be totally or partially immersed in a non reactive (plastic) recipient.

The cartridge should be immersed for at least an hour. After immersion, the cartridge should be carefully brushed and rinsed in water. The length of the procedure will depend upon the build-up of matter on the filtration media.

After this procedure, the cartridge should be stored so that it can be air-dried. The cartridge should only be used if it is completely dry.

The cartridge should be changed according to the manufacturer instructions.

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CAUTION :

Follow the order indicated in this procedure. For instance, if you were to clean with UV Shield cleaner® after the caustic cleaning, the cartridge would not be usable ever again.

For further assistance, do not hesitate to contact our technical service.

By following this procedure, the entire filtrating surface will be available again.

If it is necessary to clean the filter cartridge too often, one of the following problems could be the reason:

- ◇ Bad cleaning
- ◇ A disinfectant ratio too high
- ◇ A load of suspended matter too high in pools and spas
- ◇ A malfunction of the filter.

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