



FILTRATION TECHNOLOGY

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Sample filtration with PMC System

for biology and outlet of sewage treatment plants



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PMC System with high permeate quality

Sample filtration for biology and outlet of sewage treatment plants

Very compact and highly efficient

Applications

Designed for use in aeration and outflow, the PMC System proves to be a simple but very reliable sample filtration of wastewater. Combined with On-Line analyzers, it serves for reliable plant control of, for example, aeration or precipitant dosing.

System cabinet

The submerged PMC disc is connected to the permeate pump via the suction line. A vacuum is generated with the aid of this membrane pump, which is integrated in the control cabinet. As a result, permeate is drawn off via the membrane disc and transported to the analyzer by means of the pressure line. The negative pressure can be read on the manometer as a contamination indicator. The PMC System thus guarantees a continuous supply of sample to the analyzer. At the same time, the dead time is very low.

PMC disc

The disc consists of a special inorganic membrane material. Due to the fine pores including the dirt-repellent surface, surface filtration is achieved. This makes the membrane very easy and yet thorough to clean manually. Depending on the operating conditions, chemical cleaning may be required from time to time. The membrane area and thus the performance can be increased very easily by adding another disc using a multi-adapter.

Basin bracket

The stainless steel/aluminum basin bracket is supplied with a base and is easy to install. The bracket can be swiveled and adjusted in height using a quick-release fastener, which ensures both easy maintenance and quick replacement of the PMC disc.

Tank system

The tank installation for indoor use is supplied from the medium to be sampled by means of a pump provided by the customer. This continuously pumps raw water into the tank. The circulating flow around the disc prevents coarse dirt deposits, and a high flow rate guarantees a rapid raw water exchange of the tank contents. The excess raw water is unpressurized drained off via the overflow. The membrane area can also be increased in the tank version by means of an additional adapter.



Advantages

- Easy filter change
- Low weight of the probe
- Short dead time
- Long operating times
- Easy cleaning
- Large distances to the measuring device possible
- High operational reliability
- Outdoor installation with heating
- Can be used in basins and canals
- Suitable for SBR process
- Tank installation possible
- Conversion kit for PME und PMM module available

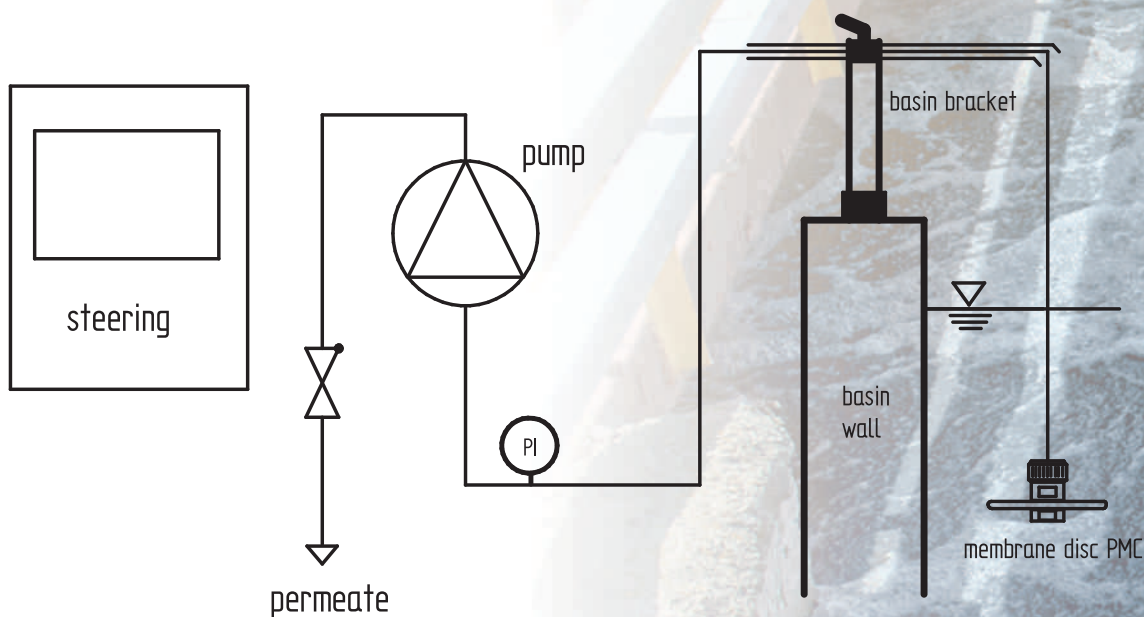
Technical data

Operating data

- Electrical connection: 230 V / 50 Hz or 110 V / 50 Hz
- Membrane area: 360 cm² (per PMC-Disc)
- Ambient temperature: -20°C till +45°C
- Pore size: 0.45 µm

Materials

- Probe housing: PVC
- Sealings: EPDM, FKM
- Pump: PP, FKM, PTFE
- Membrane material: modified ceramic



Membrane surface increase



PMC disc



PMC cleaning set





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