

Sample filtration with PMC System

for biology and outlet of sewage treatment plants



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 fixing

The stainless steel / aluminium basin fixing is designed for mounting on the railing or pool crown and is easy to install. The quick-release fastener both easy maintenance and uncomplicated change of the disc.

Tank installation

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 drained off via the overflow. The membrane area can also be increased in the tank version by means of an additional adapter.



Advantages of PMC system

- 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

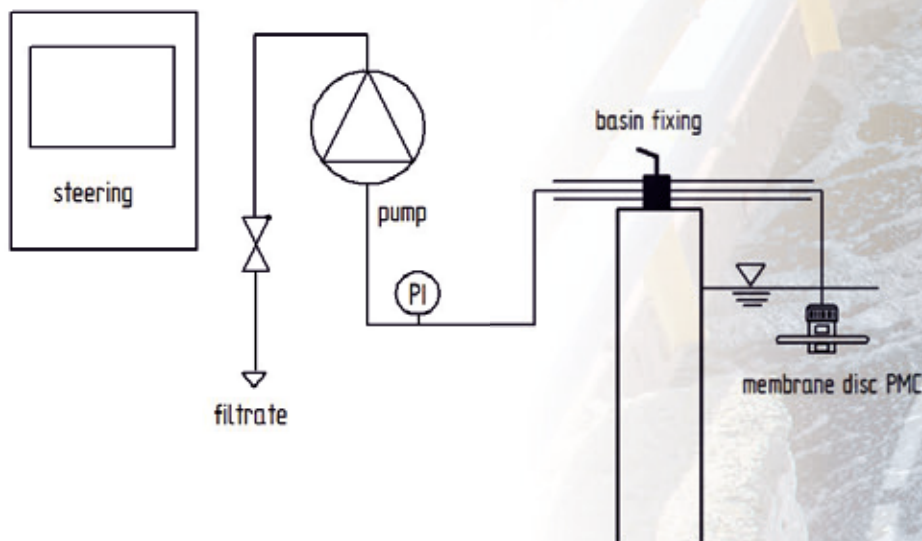
Technical data PMC system

Operating data

- electrical connection 230 V / 50 Hz
- membrane area 350 cm²
- ambient temperature -20°C bis +45°C
- pore size 0,45 µm

Materials

- probe housing PVC-U
- sealings EPDM / FKM
- pump PP, Viton, PTFE
- membrane material modified ceramic



Membrane area increase due to second disc

PMC disc





ETL Verfahrenstechnik GmbH
Zechenstraße 20
D-86971 Peiting

Phone +49 8861 930907-3
Fax +49 8861 930907-1
info@etl-technology.de



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