

Sample filtration with CMS-P system

for aeration and outlet of
wastewater treatment plants



ETL Verfahrenstechnik GmbH
Zechenstraße 20
D-86971 Peiting
GERMANY

Phone +49 8861 930907-0
Fax +49 8861 930907-1
info@etl-technology.de



The information contained in this document has been compiled to the best of our knowledge. This information is intended as a guide, its correctness is not guaranteed. It is the responsibility of the user to determine the suitability of the described products for the particular process conditions. Since we have no control over the specific process conditions, we accept no liability concerning the use and handling of the delivered products.

Vers.: 19032026



CMS-P system with backflushable filter probe

Sample filtration for aeration and outlet of wastewater treatment plants

Backflushable, compact and highly efficient

Application

The CMS-P system is primarily used for measurements in aeration and outlet of municipal as well as industrial wastewater treatment plants. This sample filtration system, in combination with online analyzers, is ideally suited for the control of, for example, aeration and precipitation chemical dosing due to its very short dead time. The complete system consists of a control unit, a basin mounting, and a CMS-P filter probe with one to three filter inserts, optionally available.

System cabinet

The special filtrate pump is integrated into the system cabinet and ensures reliable conveyance of the filtered sample from the submerged filter probe. A pressure gauge indicates the vacuum. The current liquid sample is conveyed to the analyzer. Automatic cleaning with compressed air can be individually adjusted in the control program depending on the boundary conditions. Outdoor installation of the system is ensured by heating of the cabinet and the filtrate lines.

Filter probe

The filter probe is submerged in the basin or channel using a mounting bracket. It consists of the membrane insert as well as the probe head and probe base. Membrane inserts with different pore sizes are available to suit various applications. When required, the membranes can be replaced quickly and easily with a cleaned or new insert. The low weight of the submerged filter probe is a significant advantage for handling and installation.

Basin bracket

The basin bracket made of stainless steel / aluminium is supplied with a base stand and is easy to install. Thanks to a quick-release mechanism, the holder is swivel-mounted and height-adjustable, allowing easy maintenance of the filter probe as well as quick replacement of the filter insert.



Advantages

- periodic backflushing of the membrane with compressed air
- low weight of the filter probe
- solids-free sample
- short dead time
- high operational reliability
- high permeate capacity possible (up to 15 L / h)
- suitable for use in basins and channels
- suitable for SBR systems
- easy filter replacement
- compact design
- very low maintenance requirements
- low operating costs
- suitable for outdoor installation with heating

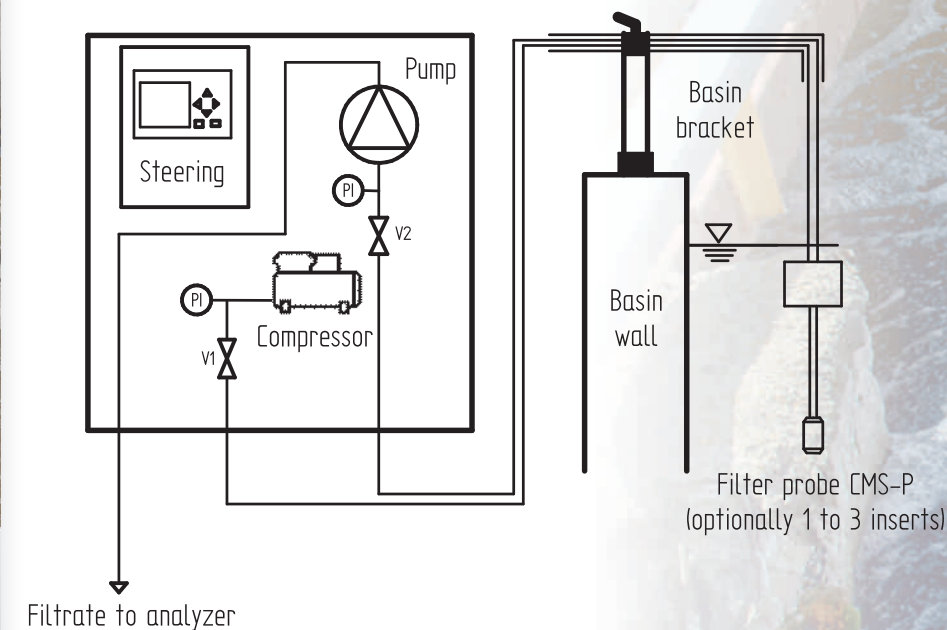
Technical Data

Operating data

- power supply: 230 V / 50 Hz
- ambient temperatur: -20°C to +45°C
- membrane surface: 230 cm² (per membrane insert)
- weight of CMS-P filter probe: approx. 0.5 – 2.5 kg
- pore size: 5 / 25 / 50 / 100 µm

Materials

- housing: PVC
- seals: EPDM, FKM
- pump: PP, FKM, PTFE
- hoses: PE
- filter material: PE



CMS-P cleaning set

