

CLEANING TECHNOLOGY

Made in Germany

WPSD IU_AF75

Wastewater disposer: SYMBIO-unit for the treatment of contaminated rinsing water for discharging into a public sewage network.

Modular disposal unit with connected IBC container for **kolb** AF75 cleaning systems with integrated ClosedLoop technology

Part number: 0905OP75-50WPSDIU



Certifications:

This system in its basic version was certified for its energy and water saving processing, for easy operability and for the standard integration of comprehensive safety features.

- Freely installable in the room
- Fully clad unit
- □ Fully automated process
- Process and service intervals PLC controlled, monitored and displayed
- □ 4 5 filter stages
- □ Automatic dosing of regulators for pH value reduction (optional)
- Integrated pumping system to connected IBC container
- Easy maintenance access through rear door / rear covering

Key applications



kolb AF75 AirFlow[®] systems

A closed rinsing circuit is integrated into all **kolb** cleaning systems. Usually these are systems for product (PCBs, DCBs, HDIs, etc.) or for tool cleaning (screens, stencils, solder frames / carriers, condensate filters, etc.). The rinsing water is repeatedly used in the ClosedLoop process (depending on the cycle number and the task options) until its dirt entry respectively its μ S conductance is so high that it is no longer usable and has to be disposed. The cheapest disposal is the indirect introduction into the public sewage network. This may only be done with regard to the legal limit values! The operator is responsible for compliance with the local regulations, possible authorizations by the authorities and proper operation.

The WPSD IU SYMBIO module utilizes the patented HME process developed by **kolb** for metal precipitation from alkaline rinsing waters with high dissolved or undissolved heavy metal contents of lead, tin, silver and copper. The flushing water is thus treated in such a way that it can be indirectly introduced into a public sewage network.

The SYMBIO module for the AF75 cleaning system can be installed freely in the room with the appropriate piping. The required additional floor space including IBC is 1,850 x 1,500 mm.

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Function

In a cleaning system, the rinse water usually shows three different process states:

- 1. Polluted water, which is no longer suitable for rinsing and has to be either treated for reuse or has to be discharged into the local sewage network.
- 2. Water that has been used for rinsing, but still is usable for this process because it is filtered in a closed loop inside the cleaning system and thus can be reused several times.
- 3. Fresh water or fresh recycled water which the system collects during the rinsing water exchange process either from the local water connection or from a reprocessing plant.

With the WPSD IU, contaminated rinse water with a too high heavy metal load of lead, tin, silver and copper can treated including (optional) pH-value regulation, to match local authority's regulations for indirect introduction of waste water into the public sewage system. (Other load materials do not belong to the basic services, but can be treated separately if required.)



The filter stages of the WPSD IU SYMBIO-module are adapted to the rinse water to be treated and adjusted to the process. Rinse water of the upstream cleaning system that is no longer usable is either lowered to the appropriate pH value in the rinsing tank, or pumped directly into the WPSD IU SYMBIO module.

The pH of the process water is measured and via suspendig agent (e.g., **kolb** pHReducer 4-fold, Part No. 090625-CN25) adjusted to discharging value. The pH reducer has not only the function to reduce pH value, but also takes over precipitation tasks for metals (complexation of heavy metals) in the rinse water and serves to ensure a proper filtration, which also positively influences the service life of the filter stages. The module has five SPS-monitored filter stages (fine filter cartridges and, if required, activated charcoal filters). If necessary, the waste water can be further processed via optional adsorber cartridges.Integrated sampling spots allow a water sample to be taken during the process to analyze its quality externally.

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