



WPCL100

Wastewater recycling system for processing and reuse of heavy metal containing water in the CrossLoop configuration

As an optional extension for kolb cleaning systems with integrated ClosedLoop recycling technology

Footprint: W 800 x D 1000 x H 1650 mm

Part number: 090500-WPCL100



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.

- Reuse of rinse water in DI quality
- CrossLoop technology for significant reduction of fresh water use and for waste water disposal
- Fully automated process
- Triple storage tank system with 120 liter capacity per tank
- Process and service intervals PLC controlled, monitored and displayed
- Integrated water exchange / refilling system
- Easy maintenance access through large doors on the front and left side
- Easy to install beside the cleaning system

Key applications



PSB X50 systems



PSB X70 systems

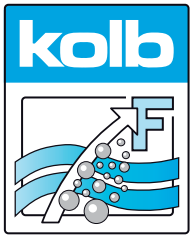


PS300 2HY

Systems for the cleaning of boards (PCBs), screens and stencils or also for maintenance cleaning (solder frames / carriers etc.) have to exchange the water after very single rinsing process or are equipped with a integrated rinsing water filtering cycle, which already allows multiple use of the rinse water. The water-saving cleaning systems from kolb have already integrated such a ClosedLoop recycling technology as a standard feature, which already allows a multiple use of the rinse water. The CrossLoop technology of WPCL 100 extends these resource savings of water again by a multiple.

kolb WPCL100 system works with crossover recirculation technology for the recycling and recirculation of wastewater, thus significantly reducing the need for fresh water and the cost for disposal of wasted water.

Corresponding connections, etc. can, depending on the task, be easily installed on the relevant cleaning system.



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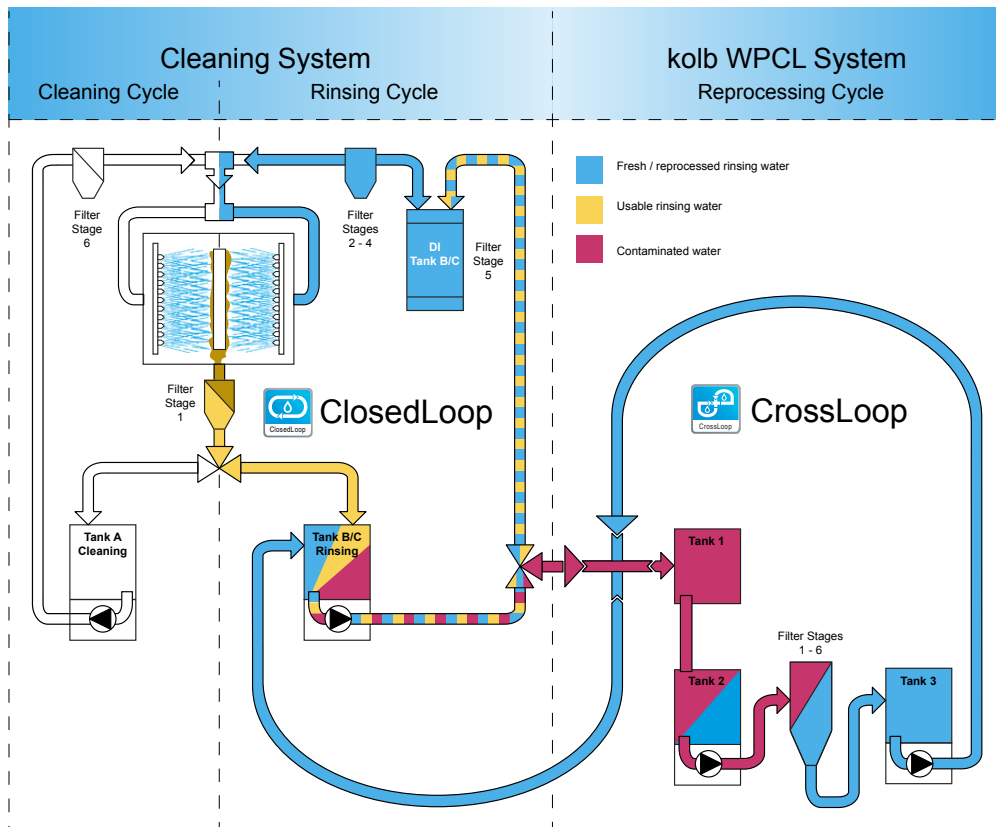
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Function

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.



Wastewater delivery: kolb WPCL 100 collects (CrossLoop) the wastewater through a valve into the first storage (tank 1 for used water) when it is no longer suitable for rinsing.

Water recycling: In the second tank (tank 2 for mixed water) and in a six-stage filtration circulation process the heavy metal content (eg lead, tin, silver, copper) is subsequently absorbed and organic residues are filtered out. In this process, the ion contamination is reduced to the desired τ S conductance, which is determined by the preset residual ion height. This process is automatically controlled by a PLC.

Fresh water delivery: The processed DI- / DM-water is collected in the third storage tank (tank 3 for fresh water) ready for reuse, so that the external cleaning system constantly has suitable rinse water available.