WPCL 330

Wastewater recycling system for processing of heavy metal containing DI rinse water in a CrossLoop configuration

For the connection of 1 - 3 **kolb** cleaning systems with integrated ClosedLoop reprocessing technology

Footprint: W 800 x D 1000 x H 1650 mm

Part number: 090500-WPCL330

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.

- Loop technology for significant reduction of fresh water use DI-water production of up to three cleaning systems
- Reuse of pre-rinse and DI-rinse water
- Recycling of rinse water in DI / DM quality
- Desired water quality in µS- and corresponding utilization cycles can be freely stored in the software
- Fully automated process with integrated water exchange / refilling system
- Two-tank dispenser system with 110 l (tank B) pre-rinse and 220 l (tank C) DI clear-rinse
- Process and service intervals PLC controlled, monitored and displayed
- Integrated water exchange system
- Easy maintenance access through large doors on the left side
- Easy to install separately or beside the cleaning system

Key applications

AQUBE® X series

AQUBE® L series

PS300 2HY

WPCL 330 Kapazität
Three AQUBE® 5 systems
Three AQUBE® 7 system
One AQUBE® 9 system
One AQUBE® 5 or 7 and one PS300 2HY system

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 every 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 repeated use of the rinse water. The CrossLoop technology of WPCL 330 extends these resource savings of water again by a multiple.

kolb WPCL330 system with CrossLoop crossover recirculation technology and sixfold filtration manages the recycling of wastewater, thus significantly reduces the need for fresh water and the cost for producing DI water as well as for disposal of contaminated used up water.

Corresponding connections can be easily installed on the relevant cleaning system.

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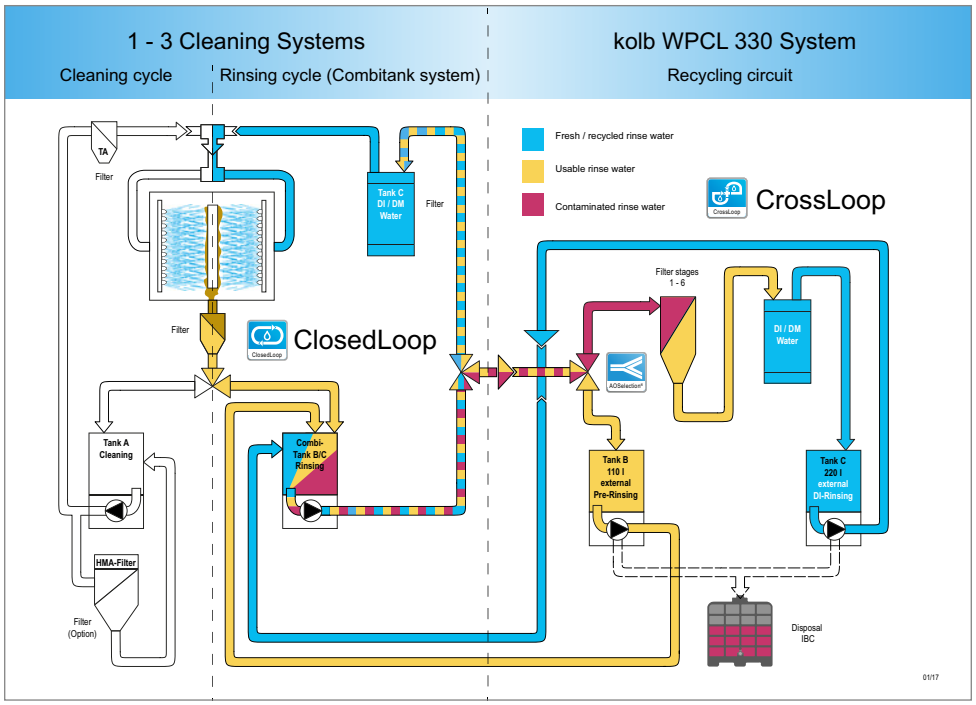
Function

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: WPCL 330 takes over the entire rinse water via a valve, if it is no longer suitable for proper rinsing due to dirt entry. The optional AOSelection® of the cleaning system ensures that pre- and clear-rinsing water (DI / DM) is separated.
Pre-rinse cycle: After the pre-rinse cycle (usually with tap water), the cleaning systems store their rinse water from their combi-tank B / C in tank B of WPCL 330 for multiple use.
Clear-inse cycle: The combination tank is now supplied with DI / DM water from tank C of WPCL 330 so that the clear rinsing process can be carried out in the cleaning system.The used rinse water from the combination tank B / C is then returned to the water managment system. There, organic and heavy metals (for example, lead, tin, silver, copper) are absorbed via 6 filter stages. The recycled water in DI / DM with the µS conductance quality, pre-set in the PLC of the system, is subsequently stored in tank C for the next clear rinsing process.
Disposal / filter change: If the rinse water from one or both circuits no longer meets the (SPS-controlled) quality specifications of the operator, WPCL 330 automatically changes the tank contents. The contaminated water is automatically pumped, e.g. Into an IBC container, for subsequent disposal by a specialist company. The filters 1 - 3 are replaced, the adsorber filter cartridges 4 - 6 are regenerated and the tanks are filled with fresh water so that all functions of the water management system are available to the next rinsing processes of the external cleaning systems.

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