AF03

AF
AirFlow®

WEEE
Compliant

Semi-automatic system with turbulence air-in-immersion AirFlow® technology for maintenance cleaning

Cleans carriers, pallets, condensation filters of virtually all manufacturers from flux, condensate, oil, dust, grease

Usable chamber dimensions: W 385, D 460, H 480 mm

Part number: 090503-AF

ENERSAVE

**WATERSAVE**

Certifications:
This system in its basic version was certified for its energy and water-saving processing.

- ☐ Semi-automatic two chamber system
- ☐ Ready for operation (plug & work), incl. cleaning fluid for the first filling
- ☐ Viable price, low operating cost, high economic efficiency
- ☐ Solder-frame and carrier fixture customized free of charge
- ☐ Special system sizes on demand
- ☐ Easy maintenance
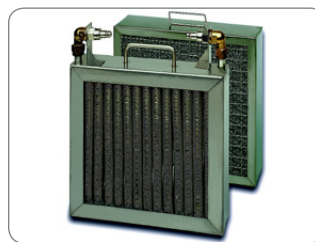- ☐ Storage of cleaning fluid under the system

Key applications
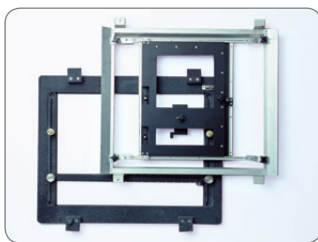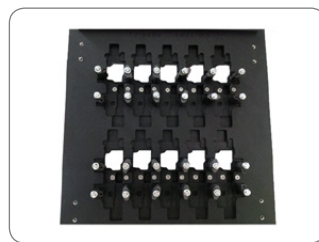
Solder frames, carriers	Solder pallets	Condensation filters	Machinery parts

kolb AF03 is a basic two chamber semi automatic system including drip tray and storage cabinet for condensation traps and cleaning fluid containers. It cleans condensation traps, solder-frames, carriers and machine parts from flux, flux condensation, oil, dust, grease etc.

With AF03 **kolb** has created a system with a great cost / value ratio that can be called a "clean" alternative for small manufacturers, where the purchase of a bigger, more complex and thus much more expensive system is economically not viable, but manual cleaning is no longer appropriate.

The cleaning system can be operated with all common electronics cleaning supplies (detergents / chemistry, etc.) which are approved by the manufacturer.

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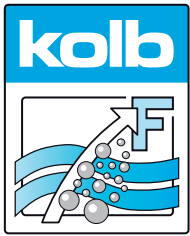
Part number: 090503-AF

Application overview

Not suitable	Not suitable	Most suitable	Not suitable	Most suitable
Assembled PCBs Hybrids Misprints	Stencils Screens, PumpPrints Misprints	Solder frames Solder carriers Solder masks	ESD Boxes Containers Magazines	Condensation traps Filters Steel sheets

Cleaning: A custom made fixture in the system holds the goods to be cleaned in an optimum position during cleaning process at ambient temperature with the AirFlow® process. The AirFlow® technology is an air-in-immersion process. It differs from common spray-in-immersion applications, as the goods to be cleaned here are actively submerged by the cleaning fluid using compressed air. This whirling technology guarantees a permanent all over active flushing without dead spots so that the contamination is fast and efficiently cleansed off.

Rinsing with tap water: After cleaning the parts are submerged into the rinse chamber which is filled with normal tap water to remove all cleaning fluid residues. Tap water has (compared to DI- / DM-water) the advantage of lower surface tension and thus flushes also critical points as low standoffs more efficient.

Drying: The cleaned parts are placed onto the stainless steel drip tray where they dry at ambient temperature. The drip water is either collected in a container or the outlet can be connected to the waste water line.

Maintenance: The system needs very little maintenance. Besides emtying the drp water container filter and cleaning fluid change according to requirements needs to be done after approx. 150 - 200 cleaning cycles e.g. when cleaning average contaminated solder-frames. Rinse water has to be changed when pH-value is over 9.

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AirFlow® technology for maintenance cleaning

Part number: 090503-AF

Technical data	
Technology base	**kolb** AirFlow®
Capacity	4 - 6 solder frames or up to 2 condensation traps
Usable chamber dimensions (cleaning)	W 385, D 460, H 480 mm
Usable chamber dimensions (rinsing)	W 220, D 460, H 480 mm
Volume cleaning chamber	approx. 90 l
Volume rinsing chamber	approx. 30 l
Power supply	not required
Power consumption	none
Filter system	Coarse filter > 1 mm
Supply connection (compressed air)	4 bar (100 l / min.)
Rinse water drain connection	3/4", hose connection 27 mm
Footprint	580 x 1.200 mm (incl. storage step)
Operating noise	52 dB (A)
Empty weight	75 kg

Top view:
Space requirement
cleaning system

ca. 1.200 mm

ca. 580 mm

Front view:

ca. 1.200 mm

ca. 1.400 mm

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