

AF 04

3-chamber cleaning system with AirFlow® technology. For the cleaning of e.g. condensation traps, 6-9 solder frames and carriers up to 610 x 470 mm, machine parts and mechanical parts (milled and pre-manufactured) from flux condensate, flux, oil, grease, dust etc.

Part no. 090504-AF

Plug & Work System.



The situation:

Clean production tools in the electronics producing industry are vital to achieve the highest production quality. Manual cleaning - still largely common - does not achieve such a standard and it is very often accompanied with offensive odours as well as hazardous exhausts.

The kolb AF 04 operates with compressed air and water-based cleaning detergents which are solvent-free* and neutral in scent.

They can therefore be operated closest possible to the production lines.

The advantages of the AF 04:

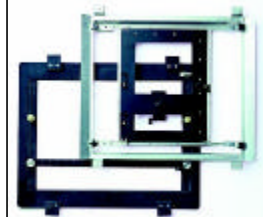
- reduced maintenance and service, PLC controlled
- high cleaning efficiency.
- short cleaning cycles (15-20 minutes).
- Hot Speed air dryer (approx. 35°C).
- no extra safety area necessary.
- can be installed in the production area.
- no special air ventilation systems required.
- noise < 60 dB (A).
- storage of cleaning detergent under the system.
- process chambers made of electrolysis resistant PVC .

The service and security features of the AF 04:

- PLC controlled/indicated, freely adjustable process parameters (cleaning and rinsing)
- temperature display.
- complies with CE regulations.
- lockable emergency off switch.
- process shut down when system lid is opened.
- status signal tower.

The general maintenance features of the AF 04:

- PLC controlled and indicated service intervals
- cleaning fluid change according to requirements after approx. 300-400 cleaning cycles when cleaning normal contaminated solder-frames.
- change rinse water when pH-value is over 9 pH.
- integrated coarse filters hold back residues >1 mm.
- optional automatic rinse water change system available.
- **system must be only operated with certified cleaning fluids!**



Kleinteilreinigung



Waschkorb für Kleinteile

Applications

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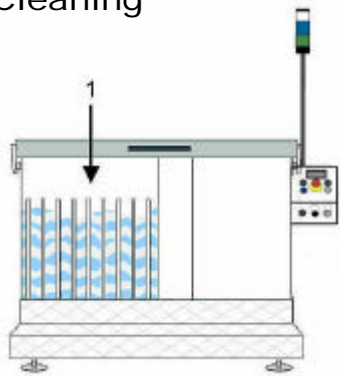
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*Solvent = organic hydrocarbon, under normal conditions volatile, flammable and risk of explosion.

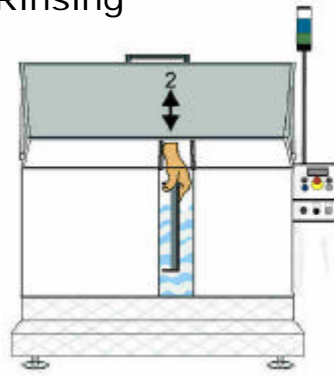


AF 04 three chamber AirFlow-System

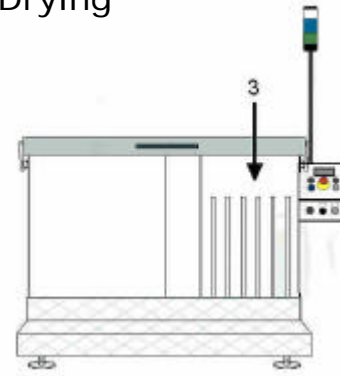
Cleaning



Rinsing



Drying



The **kolb** AF 04 operates with 3 chambers which enable short cycle times as the process steps cleaning and rinsing work perfectly adjusted and in parallel. These short cycle times and the operation of this cleaning system closest possible to the production line ensure a quick re-use of cleaned products and tools and like this it plays a vital role in the value-added chain.

The complete cleaning cycle in the AF 04 takes according to size and type of contamination approx. 15- 20 minutes when cleaning 6-9 solder-frames simultaneously.

Cleaning: A fixture in the system holds the goods to be cleaned in an optimum position during cleaning process with AirFlow technology at ambient temperature.

Rinsing: After cleaning the parts are submerged into the rinse chamber which is filled with normal tap water to remove all cleaning detergent residues.

Drying: The drying can be at ambient temperature e. g. in a separate reservoir or basket.

Technical data:

Mains power supply	:	230 V AC / 16 A; 50 or 60 Hz
Power dissipation	:	approx. 2 kW
Ambient temperature (min.)	:	approx. +20° Celsius
Noise	:	< 60 dB (A)
Compressed air supply	:	approx. 6 bar, 100 l / min
Weight	:	approx. 120 kg (empty)
Cleaning chamber capacity	:	175 l (cleaning detergent mixture)
Rinse chamber capacity	:	60 l (tap water)
Max. solder- frame size	:	610 mm x 470 mm
Water inlet	:	metal 3/8" detachable (hose stem Ø 14 mm)
Outlet connection (3 x: clean, rinse, dry)	:	metal 3/4", detachable (hose stem Ø 27 mm)
Overflow connection	:	PVC Ø HT 50 mm, detachable
Dimensions of cleaning chamber	:	width: 580 mm, depth: 610 mm, height: 470 mm
Dimensions of rinse chamber	:	width: 200 mm, depth: 610 mm, height: 470 mm
Dimensions of drying chamber	:	width: 380 mm, depth: 610 mm, height: 470 mm
System dimensions	:	width: 1433 mm, depth: 1247 mm, height (incl. signal tower): 1810 mm

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