

# AF 03

## Plug & Work System.



**Small two chamber system with AirFlow® technology, including drip tray and storage cabinet for condensation traps and cleaning fluid.** System cleans condensation traps, solder-frames, carriers and machine parts from flux, flux condensation, oil, dust, grease and lots more.

**Part no. 090503-AF-GB**

### The situation:

In electronic manufacturing clean production tools are the basic requirement for high quality production standards. The still very common method of hand cleaning does not achieve the high quality cleaning results which are required. Modern reflow solder systems are equipped with condensation traps (filters & radiators) that filter flux vapours out of the exhaust air stream. After a certain time these are then contaminated with flux condensation. To maintain full operation it is necessary to clean these parts on a regular basis.

The **kolb AF 03** cleaning system for condensation traps, solder-frames and carriers is a system that is capable of cleaning these types of parts. The AF 03 system is delivered including the cleaning fluid for the first system filling.

### The advantages of the AF 03:

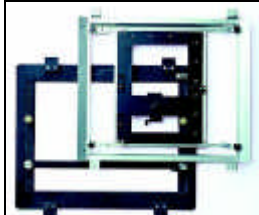
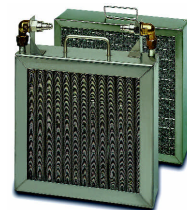
- high cleaning efficiency.
- short cleaning cycles (15-20 minutes).
- low maintenance required.
- no extra safety area necessary.
- can be installed in the production area.
- no special air ventilation systems required.
- low noise < 52 dB (A).
- storage of cleaning fluid and parts under the system.
- process chambers made of electrolysis resistant PVC.

### The service and security features of the AF 03:

- complies with CE regulations.

### The general maintenance features of the AF 03:

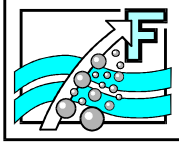
- cleaning fluid change according to requirements after approx. 150-200 cleaning cycles when cleaning normal contaminated solder-frames.
- change rinse water when pH-value is over 9 pH.
- empty drip water container or connect this to waste water connection.
- integrated coarse filter holds back residues >1 mm.
- **System must only be operated with certified cleaning fluids!**



**Applications**

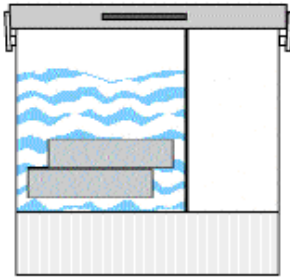
**W. Kolb Fertigungstechnik GmbH**  
Karl-Arnold-Str.12 · D - 47877 Willich  
for further information: [www.kolb-ct.com](http://www.kolb-ct.com)

tel +49 (0) 2154 9479 - 38  
fax +49 (0) 2154 9479 - 47  
e-mail [info@kolb-ct.com](mailto:info@kolb-ct.com)

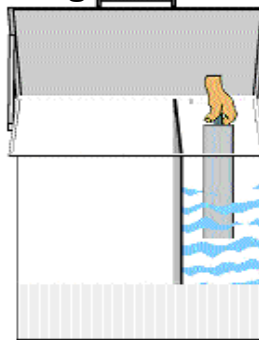


# AF 03 two chamber AirFlow-system

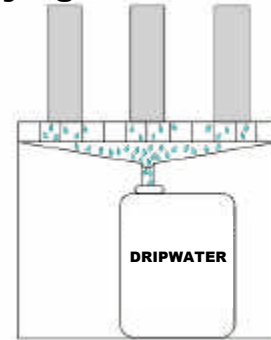
## Cleaning



## Rinsing



## Drying



The **kolb** AF 03 is a two chamber system with a drip tray for drying which enables short cycle times. The AF 03 is therefore capable within a short time of parallel process cleaning, rinsing and drying. Short cycle times enable quick reuse of production tools which together with the capability of placing the system in the production area is the best argument for a quick return on investment.

The complete cleaning cycle in the AF 03 takes according to size and type of contamination approx. 15-20 minutes with two condensation traps (REHM type) or cleaning of 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 fluid residues.

**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.

### Technical data:

Mains power supply	:	not required
Ambient temperature (min.)	:	approx. +20° Celsius
Noise	:	< 52 dB (A)
Compressed air supply	:	approx. 4 bar, 80-110 l / min
Compressed air connection	:	Quick release 3/8"
Weight	:	approx. 75 kg (empty)
Cleaning chamber capacity	:	90 l (cleaning fluid mixture)
Rinse chamber capacity	:	30 l (tap water)
Outlet cleaning chamber	:	metal 3/4", detachable (hose stem Ø 27 mm)
Outlet rinse chamber	:	metal 3/4", detachable (hose stem Ø 27 mm)
Outlet drip tray drying	:	metal 3/8", (hose stem Ø 14 mm)
Dimensions of cleaning chamber	:	width: 385 mm, depth: 460 mm, height: 365 mm
Dimensions of rinse chamber	:	width: 220 mm, depth: 460 mm, height: 365 mm
System dimensions	:	width: 1200 mm, depth: 580 mm, height (lid open): 1650 mm

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e-mail [info@kolb-ct.com](mailto:info@kolb-ct.com)