

AF03

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

Part No. 090503-AF

Plug & Work system



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 AF03 cleaning system for condensation traps, solder-frames and carriers is a system that is capable of cleaning these types of parts. The AF03 system is delivered including the cleaning fluid for the first system filling.

The advantages of AF03

- 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.

Service and security features of the AF03

- Complies with CE regulations.

General maintenance features of the AF03

- 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.

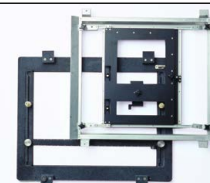
System must only be operated with certified cleaning fluids!



Filters & radiators



Filters & radiators



Solder frames

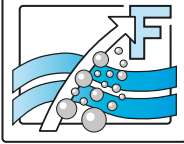


Storage

Applications

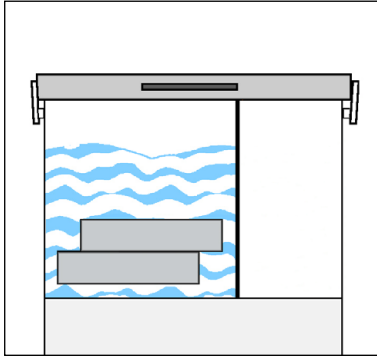
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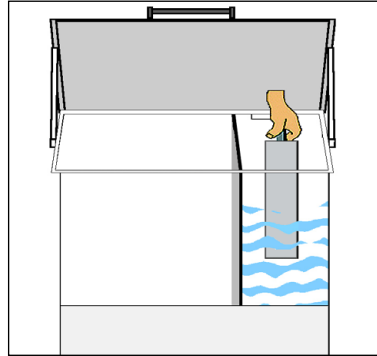


AF03 two chamber AirFlow[®] system

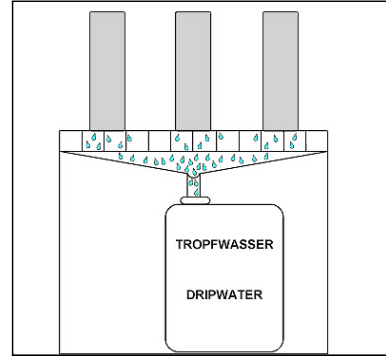
Cleaning



Rinsing



Drying



The kolb AF03 is a two chamber system with a drip tray for drying which enables short cycle times. The AF03 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 AF03 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	:	W 385, D 460, H 480 mm
Dimensions of rinse chamber	:	W 220, D 460, H 480 mm
System dimensions	:	W 1200, D 580, H (lid open) 1650 mm

Certifications:

This system in its basic version was certified for its energy and watersaving processing.

