

AF04 DSEL

Large three chamber cleaning system with AirFlow® technology. Cleans condensation traps, 6-12 solder-frames up to 650 x 800 mm size, carriers and machine parts from flux, flux condensation, oil, dust, grease and lots more.

Part no. 090504DSEL-GB

The system for big jobs.



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 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 AF04 DSEL** cleaning system for condensation traps and solder-frames and carriers is a system with modern technology and various special features which enable efficient cleaning of complex machine parts. Heavy machine parts can be moved with the EasyLift option (part no. 090532) from one process chamber to the next.

The advantages of the AF04 DSEL:

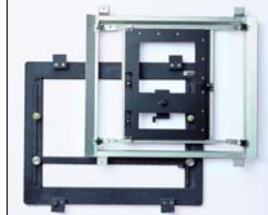
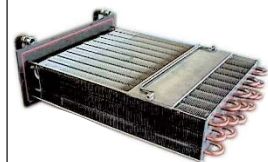
- high cleaning efficiency.
- short cleaning cycles (15-20 minutes).
- HotSpeed air dryer (approx. +35°C).
- no extra safety area necessary.
- can be installed in the production area.
- cleaning fluid heater (approx. +35°C).
- no special air ventilation systems required.
- noise < 65 dB (A).
- storage of cleaning fluid under the system.
- process chambers made of electrolysis resistant PVC.

The service and security features of the AF04 DSEL:

- optional pH- monitor system for the rinsechamber.
- 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 AF04 DSEL:

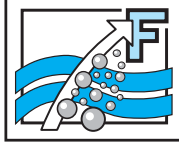
- cleaning fluid change according to requirements after approx. 500-600 cleaning cycles when cleaning normal contaminated solder-frames.
- change rinse water when pH-value is over 9 pH.
- optional filtration of the cleaning-detergent through skimmer and 100µm filter.
- **system must be only operated with certified cleaning fluids!**



Applications

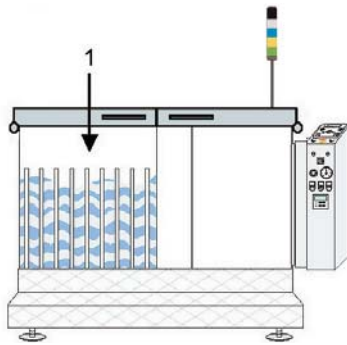
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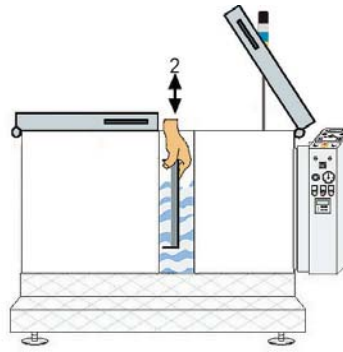


AF04 DSEL three chamber AF-system

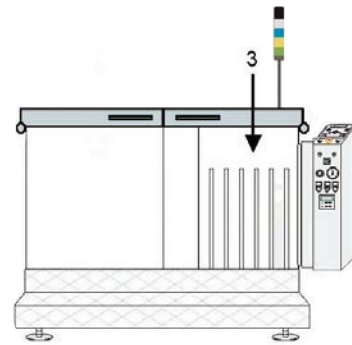
Cleaning



Rinsing



Drying



The **kolb** AF04 DSEL is a three chamber system which enables short cycle times. The AF04 DSEL is therefore capable within a short of parallel process cleaning, rinsing and drying. Short cycle times enable quick reuse of production tools which together with the capability of installing the system in the production area is the best argument for a quick return on investment.

The complete cleaning cycle in the AF04 DSEL which is more efficient due to the cleaning chamber heater takes according to size and type of contaminated parts approx. 15-20 minutes.

Cleaning: A fixture in the system holds the parts to be cleaned in an optimum position during cleaning process with AirFlow technology at approx. +35°Celsius.

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 into the drying chamber which is equipped with a HotSpeed dryer (four fan type) that dries at approx. +35°Celsius.

Technical data:

Mains power supply	:	400 V AC / 16 A - CEE; 50 or 60 Hz
Power dissipation	:	approx. 6,3 kW
Operating temperature (min.)	:	approx. +20° Celsius
Noise	:	< 53 dB (A)
Compressed air supply	:	approx. 6-10 bar, 110 l / min
Weight	:	approx. 2500 daN (empty)
Cleaning chamber capacity	:	360 l (cleaning fluid mixture)
Rinse chamber capacity	:	90 l (tap water)
Max. solder-frame size	:	650 mm x 800 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)
Dimensions of cleaning chamber	:	width 658 mm, depth 826 mm, height 750 mm
Dimensions of rinse chamber	:	width 165 mm, depth 826 mm, height 750 mm
Dimensions of drying chamber	:	width 478 mm, depth 826 mm, height 750 mm
System dimensions	:	width 1355 mm, depth 1665 mm, height (lid opened) 2150 mm incl. signal tower 2150 mm

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