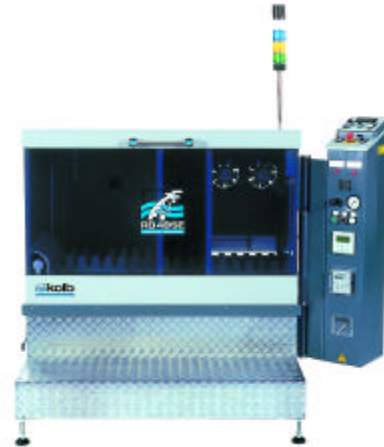


RB 4DSE

Three chamber cleaning system with AirFlow® technology. System cleans condensation traps, 4-6 solder-frames up to 610 x 470 mm size, carriers and machine parts from flux, flux condensation, oil, dust, grease and lots more.

Part no. 090504DSE-GB

Lives of water and air.



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. Furthermore it is accomplished with fumes and solvents* that are dangerous to the health.

The **kolb** cleaning system RB 4 DSE works with compressed air and waterbased cleaning fluids. These fluids do not contain solvents* and furthermore do not cause any irritating smells therefore the system can be placed directly in the production area without any further safety precautions.

The advantages of the RB 4DSE:

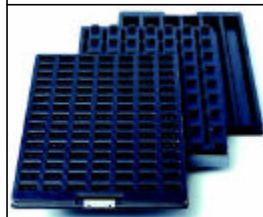
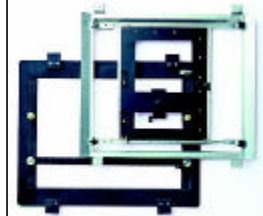
- high cleaning efficiency.
- short cleaning cycles (15-20 minutes).
- Hot Speed air dryer (approx. +35°C).
- no extra safety area necessary.
- can be installed in the production area.
- cleaning fluid heater (approx. +35°C).
- no special ventilation systems required.
- noise < 60 dB (A).
- storage of cleaning fluid under the system.
- process tanks made of electrolysis resistant PVC.

The service and security features of the RB 4 DSE:

- cleaning cycle counter and hour meter.
- optional pH-monitor system for the rinse chamber.
- 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 RB 4 DSE:

- 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.
- **System must only be operated with certified cleaning fluids!**



Applications

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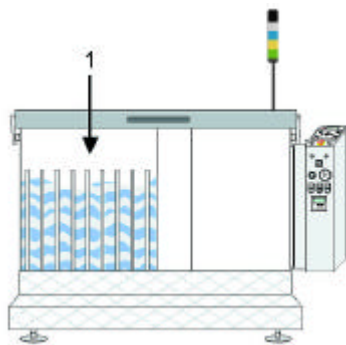
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*Solvent = organic hydrocarbon, under normal conditions volatile, flammable and risk of explosion.

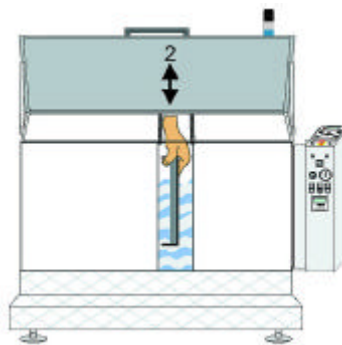


RB 4DSE three chamber AF-system

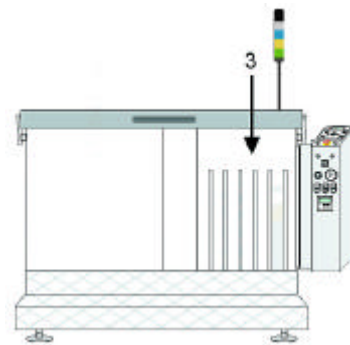
Cleaning



Rinsing



Drying



The **kolb** RB 4 DSE is a three chamber system which enables short cycle times. The RB 4 DSE is therefore capable within a short time to 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 RB 4 DSE which is more efficient due to the cleaning chamber heater takes according to size and type of contamination approx. 15-20 minutes when cleaning of 4-6 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 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 (two 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. 4,3 kW
Ambient temperature (min.)	:	approx. +20° Celsius
Noise	:	< 53 dB (A)
Compressed air supply	:	approx. 6-10 bar, 100 l / min
Weight	:	approx. 1200 daN (empty)
Cleaning chamber capacity	:	175 l (cleaning fluid 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 570 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 1585 mm, depth 1267 mm, height 1810 mm

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