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AF30

Fully automatic system with turbulence air-in-immersion AirFlow® technology for all maintenance cleaning tasks

Cleans carriers, pallets, condensation filters of virtually all manufacturers from flux, condensate, oil, dust, grease

Usable chamber dimensions: W 1,300 • D 450 • H 600 mm (W 51.18" • D 17.71" • H 23.62")

Part number: 090030-AF



















Certifications:

This system in its basic version was certified for its energy and water saving processing, for easy operability and for the standard integration of comprehensive safety features.

- * Fully automatic process: Cleaning rinsing drying
- ★ Short cycle times
- **★** Loading and unloading in an empty process chamber (no contact to detergent)
- ★ Processes and service intervals PLC controlled
- ★ Event issuing and software control via touch screen
- * External cleaning of cyclones and oven tubings possible
- ★ Plug & work system (connect, fill, start)
- * Installation close to the production line possible; no special protection required
- * Extremely compact maximum capacity on a small footprint
- **★** Certified for solar cell productions

Key applications







Solder pallets



Condensation filters



Machinery parts

kolb AF30 is a state of the art immersion cleaning system with ClosedLoop water reprocessing. It cleans components of flux management systems (cooling units, filters, heat exchangers, containers / plates)* of virtually all manufacturers as well as lathe parts, milled parts, die cast components or other bulk good (with washing drum option) from flux, condensate, oil, dust, grease using the economic and environmentally friendly AirFlow® technology.

*Up-to-date reflow-soldering systems as well as solar process ovens usually have flux management systems (cooling unit, filters, heat exchanges, containers / plates) which during operation will be subject to contamination (with flux / colofonium). Thorough cleaning helps to regain proper functioning.

The cleaning system can be operated with all common electronics cleaning supplies (detergents / chemistry, etc.) which are approved by the manufacturer.

Performance description of the fully equipped system. All rights for changes reserved that lead to technical improvement.

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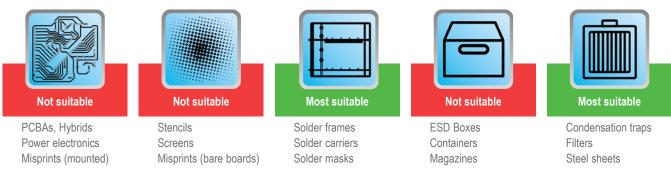
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Application overview



Cleaning (key process 1): The process chamber is empty during the loading (no contact to the detergent). After placing the goods to be cleaned into the chamber it is pressure flooded with fine filtered cleaning fluid from a separate tank A (TA) through a PLC-controlled AirFlow® process. The AirFlow® technology is an air-in-immersion process. It differs from common spray-in-immersion applications, as the goods to be cleaned here are actively submerged by the cleaning fluid using compressed air. This whirling technology guarantees a permanent all over active flushing without dead spots so that the contamination is fast and efficiently cleansed off.

Rinsing with tap water (key process 2): After the goods are cleaned the likewise filtered water, is pumped into the process chamber from a second tank B (TB). Tap water has (compared to DI / DM water) the advantage of lower surface tension and thus flushes also critical points as low standoffs more efficient.

Drying (key process 3): Drying is carried out via a threefold HotSpeed hot air drying module integrated into the process chamber lid vaporates completely the residual moisture at up to 45 °C (113 °F).

Maintenance: The system has a large maintenance door on the right side and requires only little maintenance. In general, only exhausted cleaning mixture has to be exchanged, as well as the filters have to be cleaned or changed if necessary. In the maintenance area among others are the pump-out set, the re-dosage unit with space for a 25 liter detergent container and an optional re-dosing unit for a 5 I additive container.

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Main standard features

- □ AirFlow® technology bundle: Two magnetically coupled S-Power pump units, immersion / compressed air configuration
- Programmable Logic Controller (PLC)
- □ High resolution 7" (1,024 x 600 px) display with capacitative multi-touch
- □ Full flow coarse filter (process chamber)
- Skimmer fine filtration for cleaning circuit
- Skimmer fine filtration for rinsing circuit
- □ Fine filter the cleaning circuit / cleaning tank A (TA)
- ☐ Fine filter the rinsing circuit / rinsing tank B (TB)
- ClosedLoop reprocessing of cleaning and rinsing fluids
- Automatic re-dosage unit for 25 I detergent container
- □ Threefold HotSpeed air dryer up to 45 °C / 113 °F
- Automatic exchange for rinse water and pump out unit
- Chamber exhaust system with extraction control
- Safety features: safety interlock on the process chamber door, overflow alarm for all tank sections, overheating protection for all heating and drying elements, end switches for all motor-driven valves and drives, personnel protection insulation
- Process sections made of electrolysis resistant elements

Main options

- □ Function package WPSD IU Wastewater Treatment Unit (incl. WPSD IUAF30 SYMBIO® module, pH-lowering unit with pH measuring probe, pH re-dosing, control valves, two heavy metal adsorber cartridges, two cartridge deaerators)
- Automatic re-dosage unit for 5 I additive container
- □ Circuit unit for external cleaning of containers (e.g. cyclones, tubings)
- □ Remote control (browser-based control / monitoring via mobile device or PC)

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Cleaning System Cleaning cycle Rinsing cycle ClosedLoop Fresh / recycled rises water Customiraded frose water Contaminated frose water

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^{*} Operating companies of industrial cleaning systems are responsible for proper disposal of wastewater / rinse water and (wasted) cleaning detergent. Further information on wastewater management at www.kolb-ct.com/systems/water-management/, consulting requests to info@kolb-ct.com

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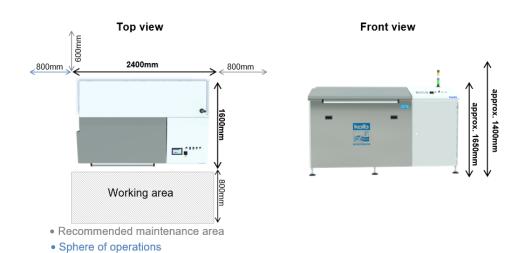
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Technical data	
Technology base	kolb AirFlow®
Usable chamber dimensions	W 1,300 • D 450 • H 600 mm (W 51.18" • D 17.71" • H 23.62")
Usable chamber dimensions HT version	W 1,300 • D 400 • H 600 mm (W 51.18" • D 15.74" • H 23.62")
Volume tank A (cleaning), tank B (rinsing)	500 I each
Power supply	400 V AC, 16 A, CEE plug / 3 Ph / 50 or 60 Hz
Power consumption	3.5 kW
Control system	PLC (Eaton)
Temperature load	up to 50 °C / 122 °F
Filter system	up to three stages - 1. Full flow coarse filter < 2 mm (0.08"), 2. Skimmer fine filtration for cleaning and rinsing circuit, 3. Oil skimmer for the cleaning circuit
Supply connection 1 (tap water)	connection for 1" hose
Supply connection 2 (compressed air)	6 - 10 bar (87 - 145 psi) - 260 l / min, connection for 12 mm (0.47") compressed air hose
Rinse water drain connection	(with integrated pump out system) connection for 1" hose
Exhaust connection	Ø 160 mm (6.3"), exhaust capacity > 450 m³ / h (15,980 ft³ / h)
Footprint	2,400 x 1,600 mm (94.48" x 62.99)
Operating condition room temperature	20 - 35 °C (68 - 95 °F)
Operating noise	59 dB (A)
Empty weight	750 kg (1,653 lbs)



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