

Sonix® 644-1FA



- A single-chamber ultrasonic fully-automated cleaning machine with automated horizontal travel for the rinse and drying. Developed to remove flux residues from the PCBs after the soldering process.



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Sonix® 644-1FA, Brief Summary :

- > fully automated processes of the cleaning, rinse and drying - all in a single chamber;
- > automated electric-driven horizontal travel to increase the efficiency of the rinse and drying processes;
- > user-friendly - the operator puts in the material to and takes out the material from the empty chamber;
- > machine may be installed directly in the production - it does not require any safety or other special measures, the device may be connected to the central ventilation system;
- > completely controlled by PLC - all processes can be easily set up on the touch-screen by the user;
- > heating of the cleaning fluid and air for drying adjustable by the user;
- > all the parts of the machine are easily and readily accessible for the operating and maintenance purposes;
- > levels of liquids in the storage baths monitored electronically, the operating staff informed about the status on the touch-screen;
- > comfortable filling of the cleaning and rinse fluids through the technological bath - controlled on the touch-screen (Independent PLC operating regime);
- > comfortable drainage of the cleaning and rinse fluids;
- > the device has installed a filtration to remove organic residues from Di-water;
- > Di-water quality is automatically measured - the operating staff informed about the status on the

- touch-screen - a part of the standard delivery;
 - > pollution of the cleaning fluid mechanical filter monitored electronically - the operating staff informed about the status on the touch-screen, protection of the pump against a damage;
 - > heating of the cleaning fluid and hot air monitored to prevent the overheating;
 - > process stages indicated by the status light;
 - > process cycle counter, the operating staff informed about the status on the touch-screen;
 - > frame, storage baths, piping, shell - completely made of stainless steel - extended warranty;
 - > mounted on lockable wheels for easy manipulation;
 - > operating height 90 cm - working area with two steps, 1 x basket for PCBs - a part of the standard delivery;
 - > gas springs for easy manipulation of the top cover;
 - > environmental-friendly - Sonix® 644 uses water-based cleaning fluids produced by DCT s.r.o. company.
 - > possibility to connect device to central air conditioning, diameter of exhaust pipe is 100 mm
 - > PLC controlled exhaust valve, which is automatically blocked during cleaning and reasing - cleaning fluid savings
- A part of the delivery is the installation and training of the staff. Warranty 7 years* for stainless-steel piping, baths and shell, warranty 2 years for the other components.
 * does not cover surface oxidation

Application:



PCB after soldering

PCB before the cleaning process

PCB after the cleaning process

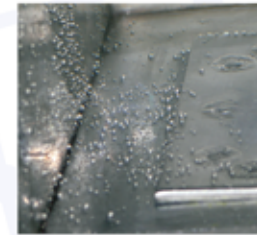
- Recommended Cleaning Process:**
 For the efficient removal of the residues after the soldering we recommend the following:

Cleaning Fluid:

Decotron® 348S, Decotron® 351S (depends on the extend of the pollution and the type of the solder paste)

Processes (depending on the respective application): 15 min, 40 - 50 °C

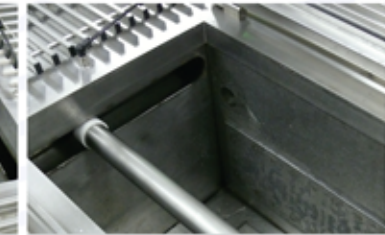
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|-----------|----------------------|
| cleaning: | 3 - 7 min, Di-water |
| rinse: | 10 - 20 min, hot air |
| drying: | |



1/ cleaning with ultrasonic energy



2/ rinse with automated horizontal travel



3/ drying with automated horizontal travel

- > The device works fully automatically, just insert the basket with the PCBs to the empty technological bath and start the process on the touch-screen.

Optional Accessories:

- > external pump system, helps easily drainage of the cleaning and rinse fluids from reservoir tanks
- > external filtration system to maintain conductivity of Di-water

Technical Data:

| | |
|--|-----------------------------|
| power supply: | 3x230V/400V/N/PE/50Hz, 11kW |
| weight: | 350 kg |
| ambient temperature: | 15 to 50 °C |
| storage bath volume, rinse fluid : | 86 litres |
| storage bath volume, cleaning fluid: | 130 litres |
| usable dimensions of technological bath: | 570 x 370 x 260 mm |
| noise level: | < 70 db |
| exchangeable mechanical filter for cleaning and rinsing fluid: | 5 to 100 µm |

Basic dimensions:

- > device's ground plan: 1350 x 1120 mm
- > device's high with closed cover is 1300 mm
- > the service space 600 mm required by the manufacturer on the side and the rear



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