

R0300FC Reflow Oven

Full convection oven for small to midsize volume production

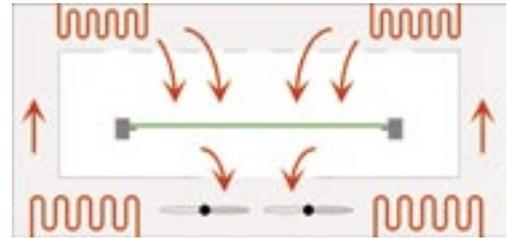


Hot air convection oven for all SMT applications

- 100% convection heating
- Equal heating rates
- Minimum Delta-T
- Precise temperature control
- Soldering or curing applications
- Small dimensions – high throughput
- Volume or small series production
- Graphical recording of temperature profiles

Lead free solders for SMT electronics have a higher melting temperature than solders with lead. The convection heating technology is the ideal solution for the reflow process. It guarantees the precise control of the higher process temperatures and the minimum thermal stress for the sensitive electronic components.

The RO300FC exclusively heats with hot air convection and can be used for the different tasks in SMT assembly, especially for the reflow soldering of lead free solder pastes or the curing of adhesives. It features easy operation, perfect reflow results and a robust construction. It is well suited for continuous production, small batch manufacturing and prototyping.



The vertical hot air stream evenly heats the complete PCB. The high air volume guarantees equal heating rates in all the components and the substrate. This technology eliminates the risk of hot spots or heat shadows.



The perfect zone separation of the RO300FC allows the setup of profiles for all applications: a) lead free profile with soak platform, b) lead free profile without platform, c) curing profile for adhesives.



With RO-CONTROL new soldering tasks can be simulated and it offers unlimited storage space for programs. Measured temperature profiles can be superimposed graphically.

Easy operation

The integrated microprocessor control with LCD display provides an easy-to-use operator interface. The memory includes preset program proposals and offers enough space for own profiles.

Uniform heating

The convection technology applies the same temperature everywhere on the board independent of component size or color, making programming as easy as possible.

With or without Nitrogen

The RO300FC-N2 can be operated with nitrogen or with air. The changeover takes less than five minutes.

Transport choices

Depending on the application a mesh belt or a chain conveyor system is used for substrate transport.

Easy integration

SMEMA connectors provide the ability to link the oven with any other compatible equipment.

Process control

With the optional flying thermocouples, temperatures can be recorded directly on the board and displayed on the machine's LCD display.

Easy to maintain

For the cleaning of flux residues all necessary parts of the oven can be removed easily and can be cleaned outside the oven.

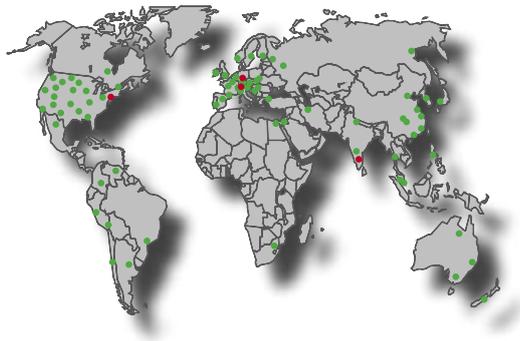


Flexibility made in Switzerland



The Company

Essemtec AG in Aesch, Switzerland, is developing, building and distributing flexible production systems. Founded in 1991, the enterprise has become a world leading manufacturer of machines for electronics production.



Swiss Made

Swiss Made stands for accurate and high quality lead products which are well known world wide. These products are designed and produced on the highest standards. Essemtec commits itself to these guidelines of quality.



One partner for the whole SMT process

- Turnkey lines
- Lowest cost of ownership
- Flexible production equipment
 - Automatic dispensing systems
 - Screen/stencil printers
 - SMD pick&place machines
 - Reflow, soldering and curing systems
 - Production optimization software
 - Component storage systems
 - PCB handling units



Customized support solutions

- Remote support software
- 24 hour hotline
- Local support
- Local spare parts

Flexible services

- Financing solutions
- Investment protection

Individual know-how transfer

- Process training
- Intranet for customers
- Worldwide competence centers

Essemtec Solutions

- Customer specific application solutions

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