

Drying time reduced by more than 13 hours in the vacuum oven

Drying in the vacuum can shorten processes in electronic manufacturing, especially in electronic components and pcb manufacture.

At Siemens AG in Fürth, the **drying time** in the cleaning of heavily polluted electronic/electromechanical assemblies was reduced by more than 13 hours through the use of a **vacuum drying oven**. Before the **electronics assembly** is stored in the **vacuum oven** for **drying**, it passes through an ultrasonic bath containing detergent and is then rinsed for two to three minutes with tap water. Before the actual **drying** process, waterdrops are blown away with compressed air.



Electronics manufacturer: drying electronic components in the vacuum oven

The new drying procedure in a vacuum drying oven:

- Drying the electronics assembly in a Memmert vacuum oven VO at approx. 60 °C and 14 to 16 vacuum drying cycles (always alternating between 50 and 900 mbar)
- Drying time approx. 2 to 2.5 hours

Environmental technology: Waste-to-energy

A considerable shortening of **drying** process times in the **vacuum oven** optimises operational processes in waste management technology...

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The drying procedure before in a conventional drying oven:

- **Drying** the **electronic assembly** in a conventional **drying oven** at approx. 60 °C with an air fan at maximum speed and air flap completely open
- **Drying time** approx. 16 hours

Electronic components: Storing und drying in the vacuum drying oven

The **Printed Circuit Board** Industry Association (VdL)/
Electronic Components and Systems Division within
German Electrical and **Electronic Manufacturers'**

Drying Ovens by Memmert

- [Vacuum Oven VO](#)
- [Universal Oven U](#)

Association (ZVEI)-Working Group “Qualitymanagement” recently published recommendations and guideline values on “**Drying bare Printed Circuit Boards**” and “Storage conditions for bare **Printed Circuit Boards**”. The recommendations also refer to a considerably shorter **drying time** in the vacuum – thereby reducing energy consumption as well.

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