

Vacuum Drying in Battery Cell Production

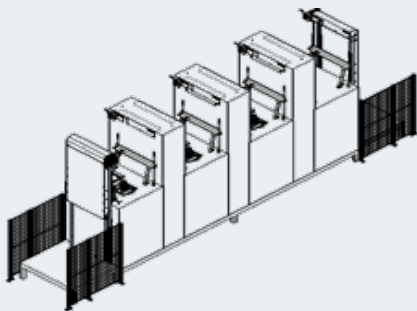
Process-safe solutions for efficient e-mobility

Post Drying and Cell Baking for Different Types of Batteries

Vacuum drying technology is indispensable in the production of lithium-ion batteries. We design customer-specific vacuum dryers that can be integrated into production lines and research facilities. For high battery quality, the entire manufacturing process must take place under controlled, dry environmental conditions. A crucial point is the connection between the individual production steps. Vacuum dryers can be used as an airlock for the electrodes between the different drying rooms. Passing the coils through the airlock ensures that the low dew points of -40°C to -60°C are not interrupted.

Vacuum ovens are available in batch type or integrated into the production line.

- Residual moisture <100 ppm ensured via inline process control
- Inline moisture measurement via standardized sensors reduces ramp up time to a minimum
- Algorithm adjusting the vacuum cycles as per the electrodes individual residual moisture
- Cleanrooms with automated guiding vehicles and lifting systems eliminates heavy load from operators
- Standardized interface to dry room installation to ensure easy integration



Vacuum Dryer as continuous oven system with conveyor and 4 zones improving material flow



Two Vacuum Dryers as airlock between electrode manufacturing and cell assembly integrated in Dry-Room Wall

Weiss Technik North America, Inc.
3881 N. Greenbrooke Dr. SE
Grand Rapids, MI 49512 USA
www.weiss-na.com

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Contact us Today

1-800-398-4768

sales.na@weiss-na.com