

Overview: Industrial ovens are crucial for Lithium-Ion Battery (LIB) manufacturing. We provide the essential thermal processing equipment for electrode and cell production, ensuring safety, longevity, and ISO-grade quality.

KEY THERMAL PROCESSES

1. Drying Ovens (Slurry Drying)

Role: Removes residual solvent/moisture from electrode coating.

Impact: Enhances porosity and ion conductivity. Prevents short circuits.

2. Curing Ovens (Stabilization)

Role: Solidifies binder materials via PID-controlled thermal treatment.

Impact: Improves active material adhesion and long-term durability.

3. Annealing Furnaces (Microstructure)

Role: Refines battery materials (electrolytes) via controlled heating/cooling.

Impact: Reduces internal stress and boosts electrical conductivity for higher output.

ESSENTIAL FEATURES

✓ Temperature Uniformity:

Multi-zone control to prevent inconsistencies across the chamber.

✓ Controlled Atmosphere:

Vacuum or Inert Gas (N₂/Argon) options to prevent oxidation.


✓ PLC/HMI Automation:

Recipe management for repeatable, high-volume production.

✓ Energy Efficiency:

High-grade insulation reduces operating costs.

CONTACT US FOR CUSTOM QUOTES

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