

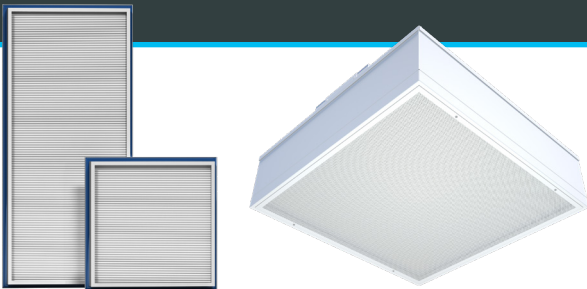


# OPTIMIZING EV BATTERY MANUFACTURING WITH AIR FILTRATION

For more information, visit [KeystoneCleanAir.com](https://www.KeystoneCleanAir.com)

## Safety. Consistency. Dryroom Control.

In EV battery manufacturing, controlling airborne particles and environmental conditions is essential to ensuring battery safety, reliability, and performance. From lithium-ion cell assembly to dry room operation, Keystone Clean Air Solutions delivers specialized air filtration systems that support cleanroom standards, reduce contamination, and enable high-yield production environments.



### Solving the Biggest Challenges in EV Battery Production

**Particulate Contamination** – HEPA & ULPA filters eliminate airborne particles that can lead to dendrite formation, defects, or short circuits in battery cells.

**Thermal Stability** – Clean, consistent, cool airflow reduces heat hotspots that contribute to thermal runaway risks during production.

**Airborne Molecular Contamination (AMC)** – Our systems support activated carbon or specialty media filtration to remove volatile organic compounds (VOCs) from the air.

**Energy-Efficient, Scalable Designs** – Engineered for high-volume production lines and gigafactories while reducing pressure drop and lowering energy costs.

### Built for the EV Battery Industry

**Supports ISO 14644 Cleanroom Compliance** – Our products align with particle count requirements for battery assembly clean zones and dry rooms.

**Custom Solutions for Cathode, Anode, and Cell Assembly** – Flexible configurations for each stage of battery production.

**Integrated Ceiling Systems & Fan Filter Units** – Ensure uniform laminar airflow and reduce turbulence in sensitive work areas.

**Proven in Lithium-Ion & Solid-State Battery Environments** – Trusted by battery developers and EV manufacturers to protect product quality and throughput.

### Enabling Clean, Scalable Battery Production

From prototyping to mass production, Keystone® Clean Air Solutions helps EV battery manufacturers meet strict air quality demands and reduce contamination risk at every stage.