

Reliable Vacuum Equipment for Maximum Profitability in the Lithium Ion Battery Production

How much time do you waste changing your oil, due to poor pump performance from contaminated oil?

Electrolyte filling and degassing can be challenging, especially when working with aggressive solvents or electrolytes. Why waste time and money when there is a more robust solution? Imagine reducing your maintenance to 30 minutes a year, processing more cells during electrolyte filling and increasing your profitability. The VARODRY is an oil-free, reliable, and efficient dry screw pump designed for maximum uptime and superior performance in rough applications. Speak to us about VARODRY.



Do you want to ensure highest purity in process for battery cells?

Think big and let go of poor product quality! With dry pumps, you don't need to worry about contamination. There is no oil back stream and highest purity in all steps of the battery cell production.



Do you care about safety in your production environment?

When working with flammable gases – which can be the case for some solvents and electrolytes – safety comes first. Our DRYVAC and LEYVAC pumps are hermetically tight and will keep all process gases inside the process.

No unexpected exit for flammable gases! They offer world class reliability and pumping speed that simplifies your vacuum system. Speak to us about DRYVAC and LEYVAC.



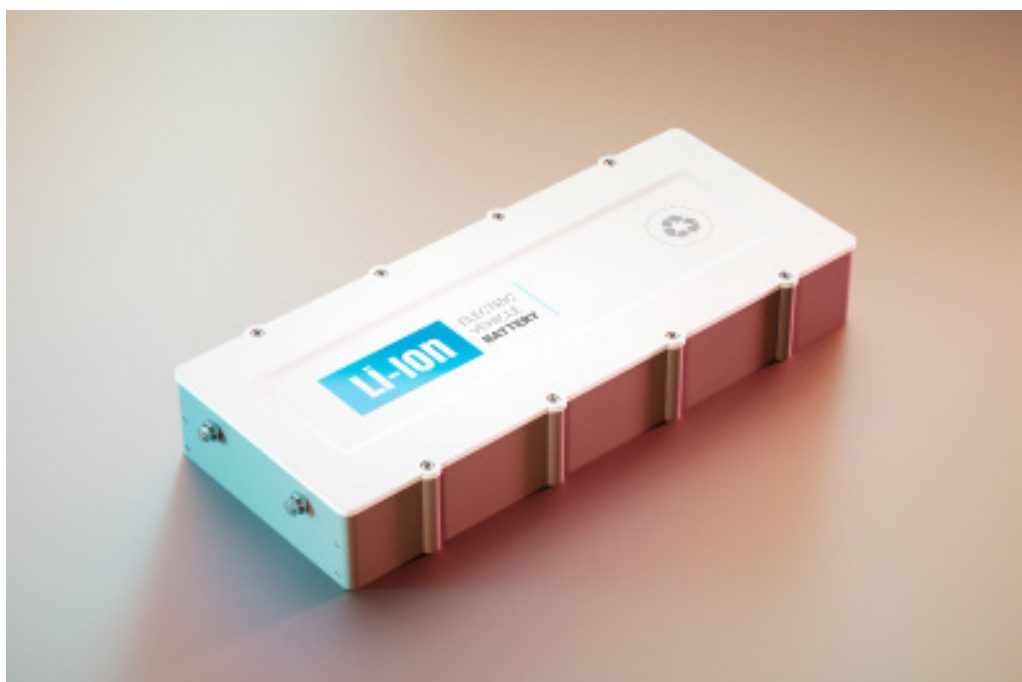
Are you still using inefficient pumps, wasting energy costs?

How much water is wasted for water cooled pumps and how much energy costs are spent for inefficient pumps? The Leybold VARODRY series offers an oil-free, high-throughput solution for maximum uptime, increased productivity and profitability with a maximum energy efficiency. Speak to us about VARODRY.



The Leybold Difference

As the oldest vacuum equipment supplier in the world, we know vacuum. Leybold offers a full range of equipment needed for the demanding process of the lithium ion battery cell production. With world class industrial strength equipment and over 170 years of vacuum expertise, Leybold is the right partner for each stage of the lithium ion production process.



Did you know?

Vacuum is used in almost every aspect of the lithium ion battery cell production

Mixing

Mixing under vacuum ensures a pure slurry, without contaminants or air inclusions. Get a high quality slurry with an efficient vacuum mixing process.

Vacuum Drying

Get almost absolute dry electrode coils within hours, rather than days, by vacuum drying. No solvent residues or humidity will decrease your cell quality.

Electrolyte Filling and Degassing

Vacuum increases safety when working with flammable electrolytes during filling and degassing. It also increases the quality of the cell as it prevents any contaminant or humidity to enter the cell in the last production steps.

Testing

For a long service life of the battery cell and for safety reasons, the cell must be absolutely leak-tight, which can only be checked using a vacuum leak detection. With a helium leak detector or with the help of a mass spectrometer, the smallest leaks - which would greatly shorten the life of the battery or even lead to the highly reactive electrolyte escaping - can be detected.

Applications Support

Our expertise is vacuum, so let our expert applications engineers model your current vacuum system to help guide you to your perfect vacuum solutions and achieving your precise specification.



Pioneering products. Passionately applied.