

The right climate to change the future

Industry-leading dehumidification
solutions for lithium-ion battery dry rooms



Powering tomorrow

Protecting our environment is more important now than ever before, and lithium-ion batteries have become an important part of improving sustainability. We have the experience and expertise to be able to offer you the best possible environment for manufacturing these solutions.

We can help ensure that your factory operates in the most optimal conditions, whilst increasing your own energy efficiency. We want to help renewable sources of energy, like solar and wind power, become even more viable in everyday life, and our dehumidification systems are a big part of this.

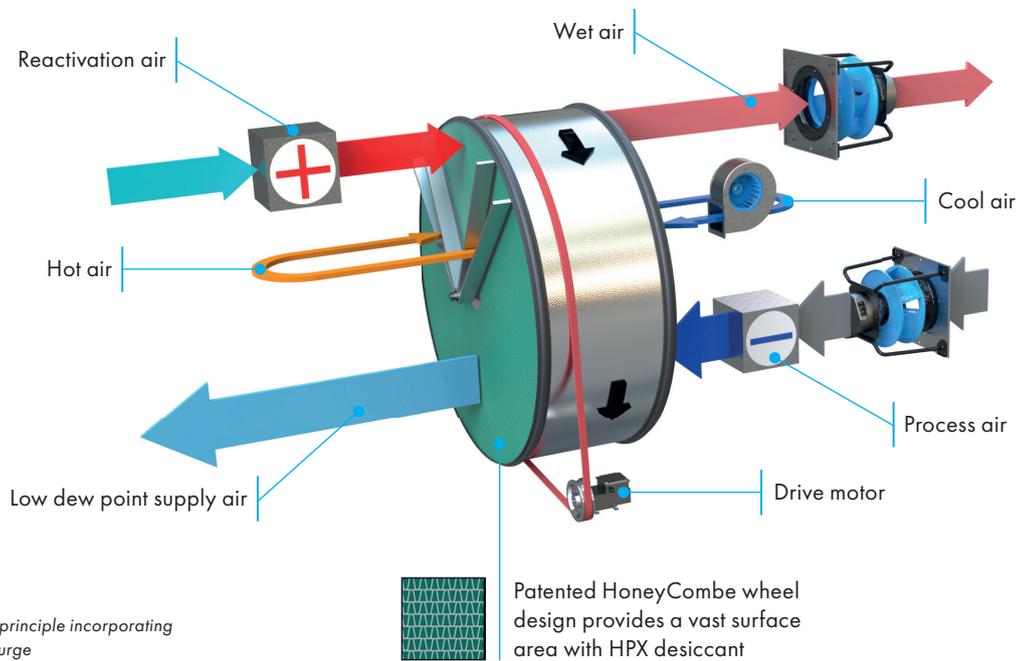
We understand the lithium-ion battery industry, and how every type of battery needs different production conditions. We also understand how important it is to provide the right climate to make more of them available to more businesses.

The importance of the environment

Lithium-ion batteries can help us to rely on more sustainable energy sources, but to manufacture them takes a lot of care and attention. Lithium is a sensitive element, and we know that to work with it, and engineer the best possible batteries, you need to keep humidity at the absolute minimum.

If there is too much moisture in the air, it can have serious consequences. Lithium reacts with water to generate heat and in some cases, this can lead to burning or even explosions.

At Munters, we are the leaders in providing dry room and dehumidification technology to lithium-ion battery manufacturers. Based on our extensive experience, we can help you design the optimal dry room for the whole spectrum of end uses. We know the requirements and how to balance them according to your needs, and we can provide the right solutions that exceed expectations every time.



Munters desiccant rotor principle incorporating patented Green PowerPurge

Feel the difference with Green PowerPurge

Munters Green PowerPurge is a patented, innovative solution which offers improved performance and energy efficiency alongside cost savings.

By utilizing recirculation, PowerPurge reduces energy needs while improving desiccant performance.

The Munters solution

Munters pioneered the use of desiccant dehumidifier technology, and our innovative solutions are used in lithium-ion battery production facilities all over the world.

Most manufacturers need the dry rooms to be maintained at a dew point of -40°C , and sometimes they will need it to be even lower. We have delivered many dry rooms capable of -60°C , and will continue to experiment with lower humidity levels.

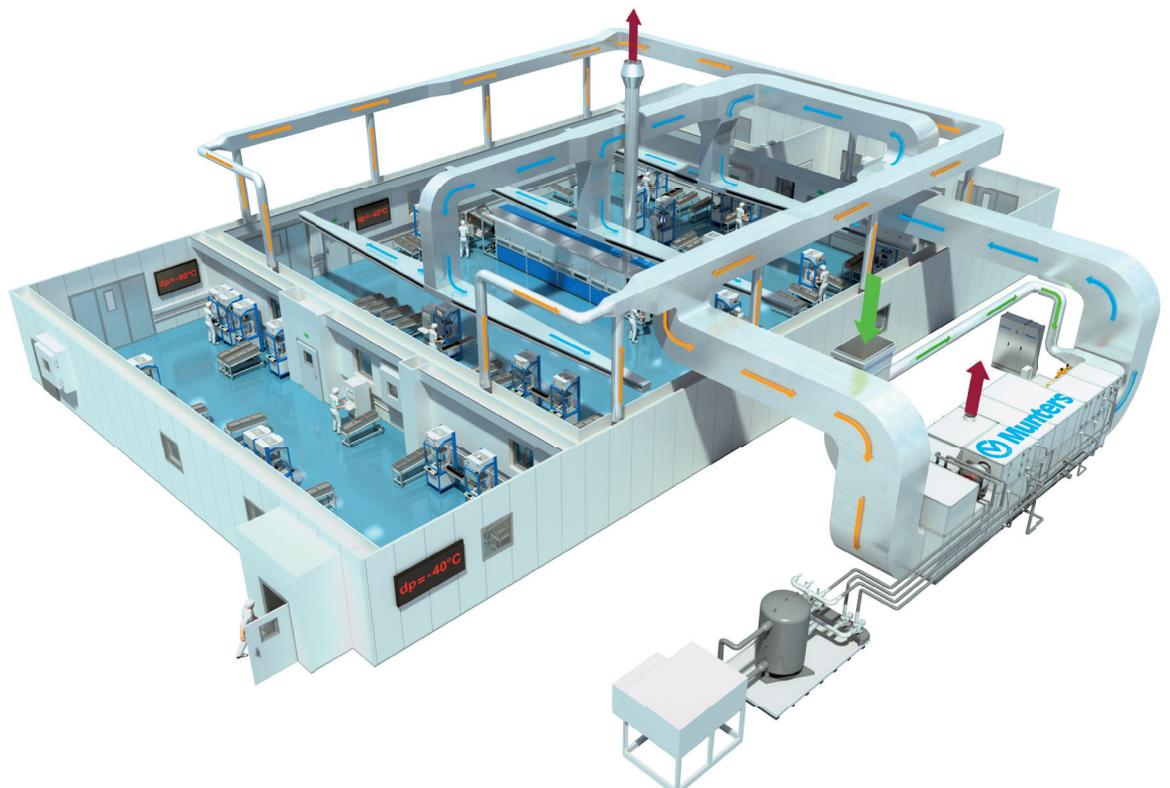
To keep dry rooms at the right humidity and temperature can involve a significant amount of energy, but we make sure energy efficiency is central to all of our technology. Our patented Green PowerPurge makes a big difference, and you can benefit from annual energy savings of up to 30%. This reduction in energy requirements also contributes to the sustainability of your battery factory, and contributes to LEED certification.

The right solution for your needs

Our lithium-ion battery solutions are specifically designed to meet all of your needs, and our experience in this industry means we know exactly what it takes. We have been providing high quality, energy-efficient dehumidification systems and turnkey dry room solutions to lithium-ion battery manufacturers for more than 40 years, and we will continue to develop our class-leading technology to meet the needs of the future.

Depending on customer requirements, we can provide:

- **Individual systems.** Many of our individual products are key systems in the modern dry room
- **Micro-environments.** We offer compact bespoke solutions that help minimise CAPEX and OPEX.
- **Installed solutions.** Our installed solutions are for the customers who may not need an entire turnkey dry room, but who could benefit from our innovation and applications expertise. Custom assistance on system installation, ductwork, pipework and controls are available
- **Entire turnkey solutions.** Given our expertise and class-leading technology, we offer entire turnkey dry room solutions. This gives the customer the best possible environment for their lithium-ion battery production from one dedicated partner

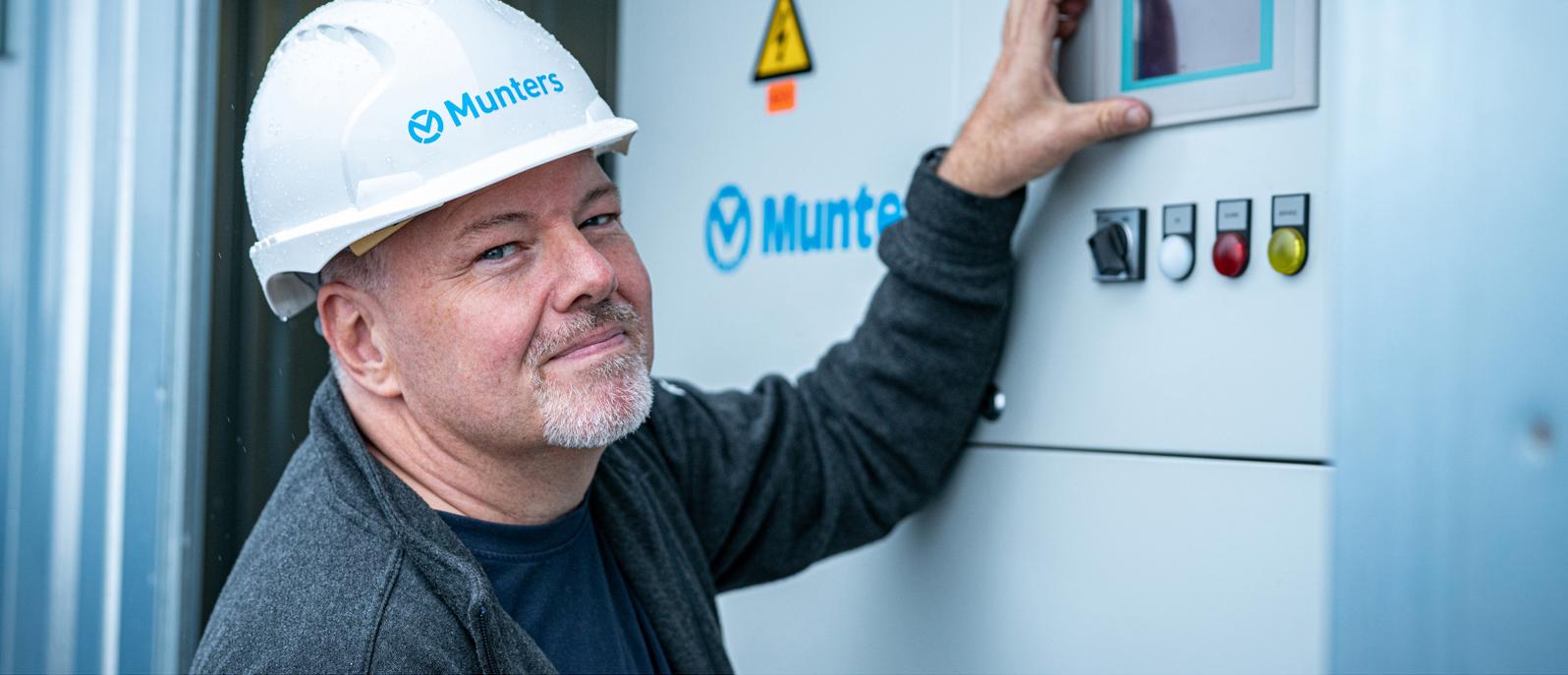




Expertise in every application

Every different kind of lithium-ion battery requires a different manufacturing environment. With over 40 years of experience in providing manufacturers with the most optimal dry room dehumidification solutions, we provide market-leading technology for the entire range of applications, including:

- Consumer electronics
- Hybrid and electric vehicles
- Electric grid storage
- Forklifts
- Telecoms
- Medical devices
- Power tools
- Electric bikes and wheelchairs



Munters Services With you all the way!

With Munters as your service partner, your air treatment equipment will receive the attention, care and maintenance needed to reach its maximum life expectancy. Throughout each phase of the equipment life cycle, the knowledge and expertise of Munters Services will insure optimal operation, minimum energy consumption, and extension of the life of your investment.

Our range of services available through our global network of Munters Services Engineers and Technicians include:

- Comprehensive installation and start-up services
- PrimaCaire (extended warranty) agreement
- Flexible ServiceCaire maintenance agreements to fit your specific needs
- Performance checks and optimization
- Numerous upgrade options for substantial energy savings and improved performance

Find your nearest Munters office at www.munters.com

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