

LITHIUM BATTERIES



- Guarantee quality and performance
- Extended durability
- Save energy

Humidity creates big problems for lithium battery manufacturers because lithium reacts strongly with moisture. By controlling the air and moisture in the production facilities the negative reactions are being avoided and the battery manufacturers can guarantee their quality.

In 2011, DST's subsidiary DST China made their first dehumidification installation at a lithium battery company in China. It turned out to be the first of many installations at lithium battery manufacturers. The market for lithium batteries has grown significantly the last few years, and it is expected to grow much more. The manufacturing process of lithium batteries demands one of the highest humidity controls in any market. It needs to be under 1% relative humidity for the lithium not to be affected. If it gets too humid in the production room the lithium can react with the humidity and transform into lithium hydroxide and hydrogen. Thus, both the quality, performance, and durability will deteriorate significantly if the lithium batteries come into contact with moisture. With that said, it is not possible to manufacture lithium without humidity control.

To avoid these moisture problems, dehumidification is being installed in the production rooms. It means that the production rooms will be made into clean rooms where the ventilation is being mixed with return air and treated by the dehumidifier so that both temperature and humidity is being controlled by the same unit. DST have the knowledge to do these installations in a way that also is energy efficient. For a lithium battery company, it means that if they have a dehumidification installation from DST they can guarantee their quality and durability on their products at the same time as they are being more energy efficient.



A few of DST references within the lithium battery manufacturers:

- Beijing Dalutaiji battery Ltd.
- Bolixun Li-poly Battery Co., Ltd.
- BYD Lithium Battery Co., Ltd.
- China aviation lithium battery Co., Ltd.
- Guangdong Jiefeng Air Conditioning Co. Ltd.
- Guangzhou Yi'an new energy Ltd.
- Nanjing LG Chem New Energy Battery Co., Ltd.
- Shenzhen Kebiao purifying equipment Co., Ltd.

Want to know more? Visit us at www.dst-sg.com

World leaders in dehumidification.

Seibu Giken DST AB

TO SELECT A DEHUMIDIFIER

Seibu Giken DST AB can provide the answer to the specific needs of every application. There is no problem requiring the supply of dry air that cannot be solved. Visit us at www.dst-sg.com and find your nearest technical representatives to discuss your requirements.

Why dehumidify?

Dehumidification of air is an economic and effective way of avoiding problems that moisture can cause, such as rust, condensation, icing, mould and disruptions in production cycles. DST representatives have the experience of dehumidification solutions for everything from; warehouses, refrigerated storage, cleaning up the industry and buildings and climate solutions for the process industry. A regulated level of humidity is also very important when handling hygroscopic ingredients.

Seibu Giken DST AB

DST is a Swedish company, founded in 1985. We are now a leading international supplier of desiccant dehumidifiers. DST has been a subsidiary of Japanese company Seibu Giken Co Ltd since 1993. DST is currently represented in over 40 countries throughout the world. Seibu Giken Co manufactures dehumidifier rotors, VOC rotors, heat exchangers and more.



Flexisorb unit RF-102



Stainless steel dehumidifiers from Seibu Giken DST. From left DR-010B, DC-5, AQ-31L



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