

PHARMACEUTICAL CASE STUDY

OVERVIEW

For manufacturers of pharmaceutical products, it is critical to control the levels of moisture in the air. Otherwise, the quality of such products (capsules, powders, tablets etc.) can be drastically reduced.

At Cross Hire, our team can supply highly-effective humidity control solutions to assist pharmaceutical product manufacturers; solutions that provide the optimum conditions for production and storage.

Moist air not only reduces the quality and shelf life of your products. It also contains bacteria and this can increase the potential for contamination. Dry air, however, suppresses the growth of bacteria.

Hygroscopic powders/ingredients absorb moisture, become sticky and build up inside conveying lines. This slows the packaging process; creates hygiene concerns; and will lead to expensive downtime.

APPLICATION

The most effective way to protect your products is to control the surrounding environment. With Cross Hire's dry air system, you get a stress-free means of achieving the optimal conditions for production.

The environment in which many pharmaceutical products are produced and packaged has to be extremely low in moisture content. Our temporary dehumidification systems can help achieve this.

With this cost-effective, stress-free approach, you can control moisture levels with ease. This ensures the quality of your products, while also offering a consistent dry air supply at the desired dew point.

Cross Hire supplies bespoke systems incorporating desiccant dehumidifiers, heaters or chillers for any part of your pharmaceutical production line: silos, production facilities, packaging, transport etc.

REQUIREMENTS

For us to tailor equipment to your specific needs, we will require the following information:

- Size of the room
- Ventilation rate
- Moisture load from product
- Heat load from equipment
- Room material
- Infiltration rate



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PROCEDURE

By compiling and analysing all the information you provide, we'll decide the most suitable equipment that ensures we engineer the solution that best suits your specifications and avoids any contamination.

Our technicians inspect and service all equipment, ducting and ancillary items before delivery to site. It is vital to sanitise the dehumidifiers and to supply new ducting to remove the contamination risk.

After this is completed, the equipment is installed in a designated location; located near a power supply. It is also set up in a manner that maximises the safe operation of the unit by your employees.

Our modern desiccant dehumidification systems deep dry the ambient air in your facility, ensuring moisture sensitive products will be manufactured in a climate that facilitates high quality results.

RESULTS

By using our dehumidification solution, you get a simple, yet effective way to resolve any humidity concerns. The result? Lower costs, less downtime, greater productivity and better product quality!

Our dry air system is a user-friendly, precise way to achieve and control your humidity conditions:

- **Significant energy cost savings, thanks to state-of-the-art, technology**
- **Improved hygiene conditions**
- **Increased product quality and shelf life**
- **Consistent, year-round production; delays due to high moisture level eliminated**
- **Improved production increases of 15-20%**
- **Shorter drying times for coated products**
- **Good Manufacturing Practice compliance**
- **Round-the-clock operation**
- **Flexible, affordable rental solutions; use the equipment only when required**

Chillers • Boilers • Air Handlers • Air Con • Heating
Dehumidifiers • Specialist Drying Solutions
Fuel Management • Marquee Cooling / Heating

ONE CALL, ONE EMAIL – ONE PERFECT SOLUTION:
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