

CASE STUDY

Prayon



Client's Field of Activity Agri-food phosphates manufacturer

Business Challenges

- Prevent phosphate sticking
- Reduce production downtime for cleaning
- Reduce packaging waste
- Increase productivity

Technical Challenges



- Maintain a constant humidity level
- Blow dry air near to the nozzle and in the packaging environment
- Eliminate clogging
- Facilitate conveying by pneumatic transport
- Minimise bulk of dehumidifier
- Simplify maintenance on the machine

Products – Solutions And Services brought by DESSiCA



Products

- Rental of an independent standalone rotary adsorption air dryers type DT-4000. The DT-4000 dehumidifier was installed outside the dry air environment.
- A network of ducts (2 x 10 meters of ducting and fittings) carries the dry air into the room to be treated and near the bagging nozzles.
- The regeneration air is taken from inside the process volume. The humid air is thrown outside the building.
- The silica gel desiccant wheel ensures a very high dehumidification performance.
- These dehumidifiers are especially designed for temporary installations, they are installed on a chassis and equipped with wheels and lifting rings for easy handling.

Products – Solutions and Services brought by DESSiCA



Installation

- DESSiCA provided its expertise and advice for the design of the bagging room and its airtightness.

Support and services

- Rental equipment is regularly maintained and checked by DESSiCA technicians.
- This solution requires a simple maintenance : the regular change of air filters for long-term rentals.
- A remote filter box has been installed to facilitate filter replacement.
- The lifespan of a desiccant wheel is 8 to 12 years depending on use.

Key benefits and return on Investment (ROI) for Prayon



- The installation provided by DESSiCA and its mode of operation fully met Prayon's expectations.
- The lease enabled Prayon to validate the technical assumptions and dehumidification capacities required for the powder packaging activity.
- The rental period was initially planned for 2 months and the Prayon company satisfied with its relations with DESSiCA renewed its confidence, first by extending the rental period, then by purchasing a similar dehumidifier to the one rented.



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