

## CASE STUDY FUCHS



**Client's Field of Activity** Spice manufacturer

### Business Challenges

- Prevent powder clogging or caking
- Prevent mould growth
- Prevent contamination (such as salmonella)

### Technical Challenges



- Supply dry air at 11°C and 3g of water/kg of dry air
- Supply a dehumidifier suitable for sterilization and pasteurization processes

### Products – Solutions And Services brought by DESSiCA



### Products

- Supply of a 1400 m<sup>3</sup>/h DP-type dehumidification system for industrial processes, with pre and post-dehumidification units (upstream and downstream)
- The silica gel desiccant wheel ensures a very high dehumidification performance.
- The DP dehumidifier is designed with a stainless steel casing to meet food hygiene requirements.
- Proportional control of the pre-dehumidification temperature, the absolute humidity of the dry air and the temperature of the dry air ensures that the exact conditions required are maintained.
- The systems are equipped with a PLC that displays measurements from the various probes and regulation setpoints.
- The dehydrators were shipped in SEI4C wooden crates for international maritime transport.

### Products – Solutions and Services brought by DESSiCA



### Installation

- The dehumidifier was installed inside and integrated into an entire steam sterilization process for powders and bulk materials.
- The commissioning was carried out by DESSiCA technicians.

### Support and services

- Technical solution with low maintenance requirements apart from changing air filters 1 to 2 times a year
- It is strongly recommended that a specialist DESSiCA technician visit the unit every year.
- The lifespan of a desiccant wheel is 8 to 12 years depending on use.

### Key benefits and return on Investment (ROI) for FUCHS



- The installation provided by DESSiCA and its mode of operation fully met FUCHS's expectations.
- Installation of the system has enabled FUCHS to reduce production interruption and product sticking on the food powder production line.
- The unit is now in operation since March 2023, so far, no product loss or negative feedback from the customer has been reported.



HEADQUARTER  
605 allée Filiéristes,  
Parc d'activités de Fétan  
01600 Trévoux- FRANCE  
Phone: +33 (0)4 74 08 44 44

[contact@dessica.fr](mailto:contact@dessica.fr)

[www.dessica.fr/en](http://www.dessica.fr/en)