

## CASE STUDY

### Grégoire Gaillard (groupe STEF)



**Client's Field of Activity** Frozen products storage warehouse

#### Business Challenges

- Limit the appearance of frost, ice on the floor and the walls of the cold room
- Reduce refrigeration energy consumption by spacing defrosting
- Reduce operating costs (reduction of damage and failure)

#### Technical Challenges



- Limit the intake of humidity from the outside and dry the air to prevent condensation
- Reduce the risk of accidents and slipping
- Maintain the quality of the packaging and the readability of bar codes
- Limit the appearance of fog

#### Products – Solutions And Services brought by DESSICA



#### Products

- Supply of an air dehydration system by silica-gel desiccant wheel type DT-1500 ICF
- The installation was carried out inside the cold room at an operating temperature of -22 ° C to treat 1500m<sup>3</sup> / h of air.
- The regeneration air is taken from the fresh quay at + 5 ° C and the humid air is discharged into the attic.
- The installation was fitted with a clock to stop operation at night and on weekends in order to optimize energy consumption.
- Dehydrators working on negative DESSICA atmospheres have a particularly low consumption (6.1 kW).

### Products – Solutions and Services brought by DESSiCA



### Installation

- The installation is made to measure with a duct routing adapted to the environment of the room.
- The machine is positioned high to facilitate the movement of forklifts to limit the bulk.
- The installation is quick and without substantial work (2 days of installation) under usual operating conditions (temperature and storage maintained).

### Support and services

- Technical solution with low maintenance requirements apart from changing air filters 1 to 2 times a year
- Desiccant wheel life : 80% minimum yield after 10 years (subject to proper use)

### Key benefits and return on Investment (ROI) for Grégoire Gaillard



- The installation provided by DESSiCA and its mode of operation fully met Grégoire Gaillard's expectations.
- The installation of the system allowed Grégoire Gaillard to obtain dry air. The conditions required in the cold room and the airlock are maintained, thus limiting the formation of condensation, fog, frost or ice.
- The facility has been in operation since January 2017.



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