



DRYING AND DEHUMIDIFICATION SOLUTIONS FOR INDUSTRIES

DESSiCA

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Our story



1999 . BIRTH

DESSiCA, founded by Adam Tchaikowski, with the ambition of becoming a reference company on the European market in the mastery of dry air technics and its industrial applications for drying and dehumidifying air. It has a recognized know-how in the creation of innovative solutions adapted to the needs of his clients.

2009 . LYON HYGROMETRIE PURCHASE

- Following the purchase of DESSICA, it has a fleet of equipment for rental which allows it to provide new services to its customers
- Development of the establishment in France and Belgium
- Development of the first range of clean dehydrators: DS Series
- The turnover reached €1.2 million with 6 employees.

2012 . COOPERATIVE SOCIETY

- Following the retirement of the company's founder, DESSiCA became a Cooperative Society increasing the involvement and the participation of each employee to the company' success. Social capital is open to employees.
- Development of the DIA range for food industry
- The turnover reached 2,2 M€ with 10 employees. The company experienced an average increase in turnover of more than 25% per year.

Our story



2016 . STRENGTHENING STUDY OFFICE

- Creating the Research and Development function
- First energy savings patent filed
- The turnover reached 3,6 M€ with 16 employees.



2018 . BTI METAL PROCESSING FACTORY

Following the purchase of DESSICA, it has its own tool to better control its production. The group has 48 employees for a turnover of €6 millions.

Today, 20 years later, its recognized know-how and well adapted solutions for drying air needs makes it a major SME in this niche market. With an extraordinary ratio between its corporate revenues (6 M€) and the number of employees (48), the performance of DESSiCA is not to be doubted.



Our business

- Designer of dehumidification and drying solutions for the industry based on specifications (food industry, energy production, lithium batteries, pharmaceutical and chemical industry)
- Standard dehumidifiers' supplier.
- Equipment rental.
- Maintainer of any dry air systems.



Our technical resources

- A design office with engineers and technicians for air conditioning, mechanics and industrial electricity engineering.
- An intervention team for commissioning and after-sales service.
- A assembly workshop



Our technologies



Rotary solid desiccant dehumidification systems

Solid desiccant dehumidification systems are based on the properties of a chemical which got high affinities with water. Our units include a desiccant rotor made of Silica gel (SiO_2).

Those systems can be relevant until very low humidity (-60°C dew point) and they can run on different energy sources to dry the air : hot water or steam coils or gas burner.

- Modular and adaptable
- Double skin insulation 2 inches
- PLC automated control
- Indoor & outdoor versions
- Integrated heat recovery

Our applications



- Food industry and packaging
 - Dry atmospheres industrial bakeries, producers of viennoiseries and patisseries
 - Spray drying towers
- Pharmaceutical process
 - Dry rooms
- Prevention of seed germination

Production

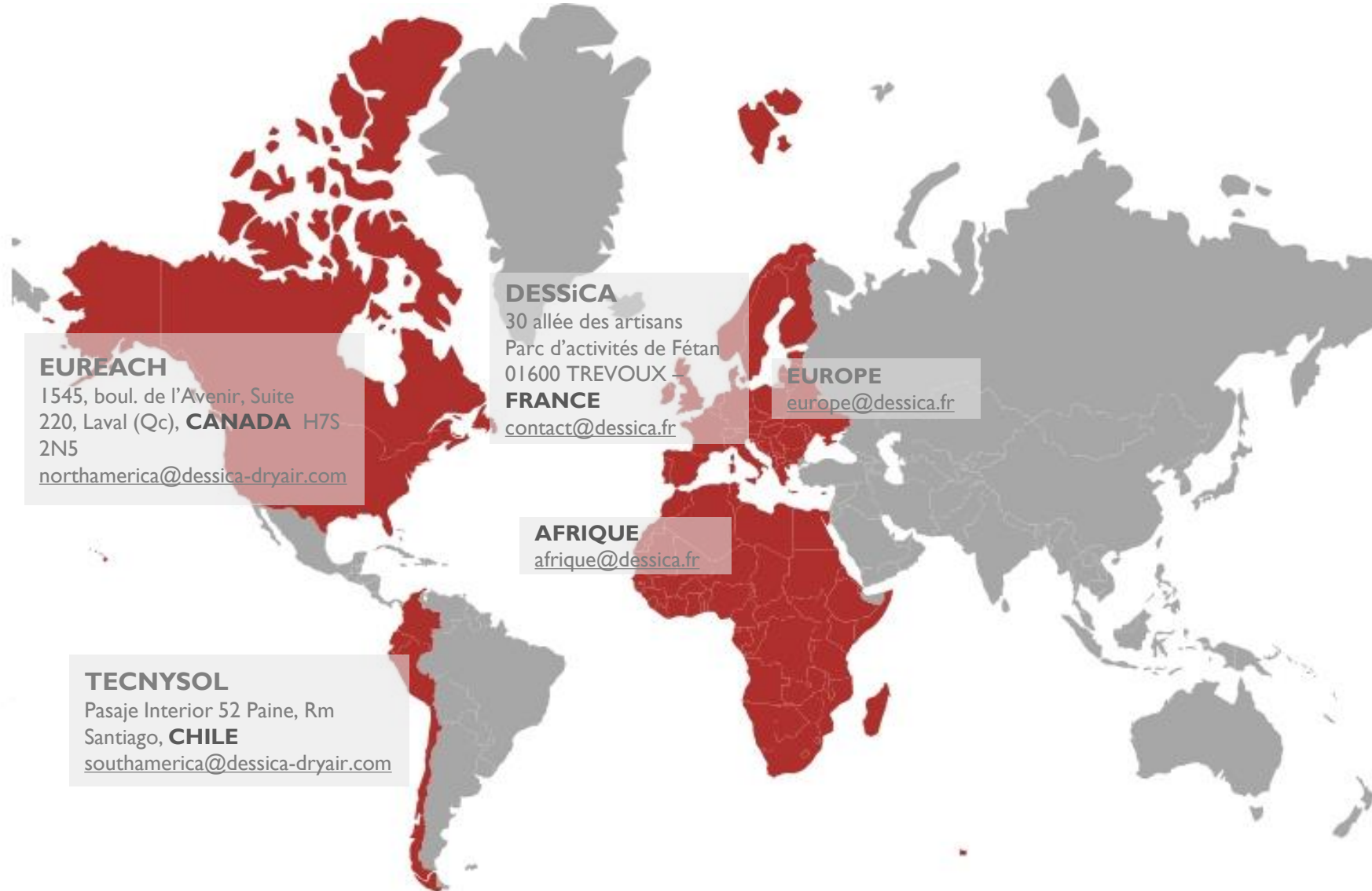


- ✓ 4000m² Production site
- ✓ Production control
- ✓ Cutting, folding, welding, assembly

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International implantations



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Our strenghts

Our innovation capacity

A new ENERGY SAVING DESIGN obtained in 2017 is a clear example of our constant strive. The patent is an indicator of the dynamism of our R & D division: a guarantee of seriousness and the demonstration that DESSICA can project itself while innovating thanks to a motivated and involved team.

DESSiCA is working on the development of a desiccant cooling system with very low environmental impact: Desiccant Evaporative Cooling (DEC). The patent obtained by DESSiCA will also help improve the performance of the DEC system.

Corporate culture

Our corporate culture is based on the principles of autonomy, responsibility, cooperation, pragmatism, professionalism and efficiency. Our cooperative company promotes the motivation, responsiveness and strong involvement of each employee in the company.

Organization

A single technical contact to follow up from fulfilment to order and commissioning (same person for the entire duration of the project)

- an integrated project monitoring based in France for great technical flexibility
- equipment designed and manufactured in France (for modular and specific machines)

DESSiCA

dry air technics



- Food industry
- Prevention of seed germination
- Pharmaceutical process



LE MEILLEUR DE L'INDUSTRIE,
LE MEILLEUR DU FUTUR,
LE TOUT DANS LA FRENCH FAB



DESSiCA : french leader and
major european actor of :
- water treatment plants atmospheres
- anhydrous rooms for lithium batteries production
- dry air supply for drying towers



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