SPECIALIST IN DRY AIR TECHNOLOGY AND ITS INDUSTRIAL APPLICATIONS FOR DRYING AND DEHUMIDIFICATION
Our story

1999. BIRTH
DESSiCA, founded by Adam Tchaikowsi, 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

2010. PRODUCTS DEVELOPMENT
- 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’s success. Social capital is open to employees.
  The organization contributes to the involvement and commitment of each employee to the success of the company.
- 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.

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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 45 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 (45), the performance of DESSiCA is not to be doubted.
Our business

- Design dehumidification and drying solutions for the industry based on specifications (food industry, energy production, lithium batteries, pharmaceutical and chemical industry)
- Provide standard dehumidifiers'
- Provide temporary air moisture control services and solutions (lease)
- Maintain any dry air systems.

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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 (SiO₂). 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.

- Standalone air dryer
- Air handling units including adsorption rotors
- Drying rotors modules that can be included in complete air conditioning systems
- High performances Silica gel rotors.

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Our technologies

Condensation Air Dehumidifier

The dehumidification by condensation is using a heat exchanger where the air's temperature is lowered to the dew point corresponding to the desired result. The cooling fluid should have a temperature lower than the expected dew point which is most of the time realised by a refrigeration system, internal or external.

Those units are best used to obtain an air with a dew point higher to 6°C.
Our applications

Production atmosphere
Cooling tunnels
Spray drying towers
Dry atmospheres
Positive and negative temperature storage
Dry room
Anhydrous room
Drying of thermosentive products
Air transport and silo
Preservation against germination or mold
Preservation against condensation
Preservation against corrosion

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Our organization

DESSICA Group

Prospective → Marketing → Development

Production
- Metal processing factory (BTI)

Technical department
- Cabling & Factory Acceptance Tests
- Commissioning and maintenance

Design department
- Projects monitoring

Sales department
- Sales France
- Sales export
- Engineer studies

Sales department
- Sales administration, Purchasing, Logistics

Financial department
- Accounting, finance, social

Projects monitoring
Production:

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

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International deveppement

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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)
• Food industry
• Prevention of seed germination
• Pharmaceutical process
• Plastics processing
• Energy industry
• Waterworks and water treatment plants