

## CASE STUDY ROANNAISE DE L'EAU Installed by SOGEA



### Client's Field of Activity

Production and supply of drinkable water

### Business Challenges

- Preserve the production equipment of degradations made by condensation and corrosion
- Limit energy consumption of ventilation system in winter

### Technical Challenges



- Avoid condensation on walls and equipment
- Limit corrosion on materials and pipe
- Prevent mould appearance

### Products – Solutions And Services brought by DESSiCA



### Products

- On the ground floor, DESSiCA install a double flux air handling unit with desiccant rotor with a pre-dehumidification system fed by water from the washing tarp, which ensures that a dew point lag is continuously obtained between fresh air and water temperature in the pipes in the filters gallery. This plant treats the 1,200 m<sup>3</sup>/h fresh air and recovers for reactivation 900 m<sup>3</sup>/h in the room keep a slight overpressure
- Upstairs, an adsorption dehumidifier of 3500m<sup>3</sup>/h dehumidify air in limiting fresh air input thus reheating of this air in winter

**Products – Solutions  
And Services brought  
by DESSiCA**



**Installation**

- The installation is equipped with a by-pass shutter to work differently between summer and winter, in order to optimise energy performance

**Support and service**

- 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

**Key benefits and return  
on Investment (ROI) for  
ROANNAISE DE L'EAU**



- The mode of operation and solution provided by DESSiCA with SOGEA fully met the expectations of ROANNAISE DE L'EAU
- Due to DESSiCA's dryers' installation, ROANNAISE DE L'EAU have dry premises all year and reduce the energy consumption of air dryer unit
- The units are now in operation since 2014. So far, no deterioration on equipment has been found (pipes and walls)



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