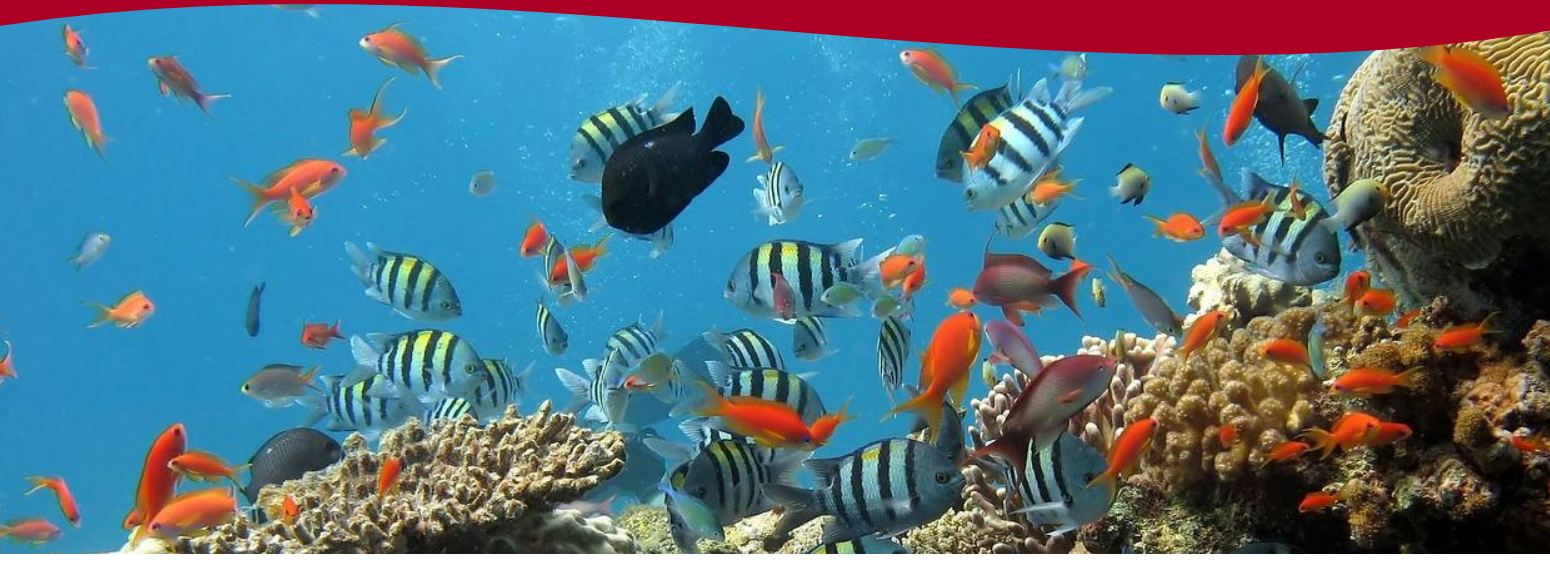
DESSiCA
dry air technics

SOLUTIONS FOR CONTROLLING HUMIDITY

CASE STUDY
AQUARIUM SYSTEMS



Client's Field of Activity	Aquarium products manufacturing
Business Challenges	• Control hygrometric conditions (20%) to maintain the same quality production for hygroscopic substances • Insure a comfortable environment for employees
Technical Challenges	• Control low hygrometric < 20% HR whatever the season • Maximize the air dryer in managing temperature (coil change-over) • Limit the volume thanks to an all inclusive solution
Products – Solutions And Services brought by DESSiCA	**Products** • Supply of a set of air desiccants dryers with silica gel adsorption rotor equipped with pre-dehumidification battery and a change-over battery • The air dryers proposed with an integrated purge sector: the reactivation air flow have the role of evacuate moisture retained by the silica gel of the wheel. A part of the regeneration air flow passes through the wheel by a 25 degree angle (purge area) to cool the dehydrating medium heated by its passage in the regeneration area • The silica gel adsorption rotor 3rd generation insure a air dryer high performance and a reduction of energy consumption

Products – Solutions And Services brought by DESSiCA

Installation

- The devices and units have been installed inside to treat fresh air (2400m^3/h) and to maintain a stable temperature (68°F)
- Dry air duct network made with steel galvanized and insulate was installed for guarantee the total flow confinement

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

Key benefits and return on Investment (ROI) for AQUARIUM SYSTEMS

- AQUARIUM SYSTEMS is fully satisfied with the installation and operation of DESSICA' dryer units
- The installation of a air dryer system permit AQUARIUM SYSTEMS to certified identical quality product, to improve the working conditions and to energy consumption
- The units are now in operation since May 2017, so far, no product loss or negative feedback from the customer has been reported.

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