



Bridge preservation against corrosion

Bridges are always one of the largest investments for countries. And it is prior to maximize the lifetime of this investments to get maximum efficiency.

Dehumidifiers with desiccant system must be used for maximizing the lifetime of the bridges.

By controlling the relative humidity of the air, it is possible to remove the effects of corrosion on both anchor chambers and cables.





Bridge preservation against corrosion

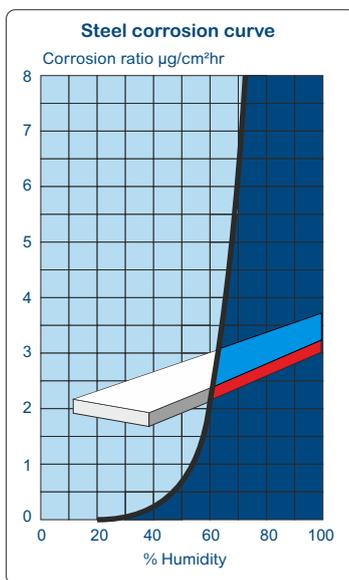
How to create an ideal environment for cables and anchor chambers?

Desiccant dehumidifiers must be applied to the closed environment which includes the steel infrastructure. In some occasions, dry air can be applied directly to the metal surface.

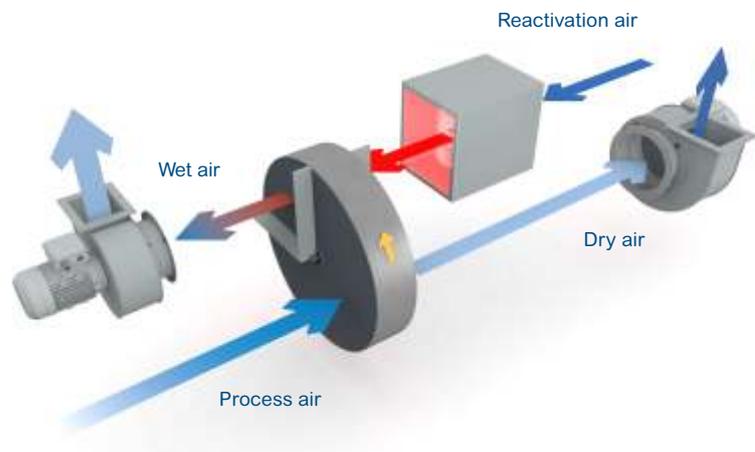
A humidity condition below %45 Relative Humidity must be provided for preventing corrosion effects on any kind of metal surface.

Advantages of the system:

- Increases the lifetime of bridge structure with low energy consumption.
- Cables remain strong for a long time.
- Corrosion protection paint is not necessary anymore.
- Easier maintenance possibility due to corrosion prevented structure preventing corrosion effects on any kind of metal surface.



Desiccant rotor operating principles



The longest combined road and rail bridge in Europe, Øresund Bridge, is connecting Denmark and Sweden safely with Fisair desiccant dehumidifiers.

The bridge runs nearly 8 kilometers (5 miles) from the Swedish coast to the artificial island Peberholm in the middle of the strait. The crossing is completed by the 4 kilometer (2.5 mile) Drogden Tunnel from Peberholm to the Danish island of Amager.

Fisair Dehumidifiers prevent the effects of corrosion which can cause the loss of human lives, damage the bridge structure heavily and cost millions to repair.

With specially designed Fisair units, it is easy to maintain the bridge corrosion free for a long lifetime.