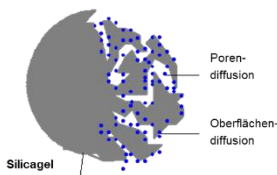




Question of the Month August 08/2019

In which temperature range can an adsorber be used?

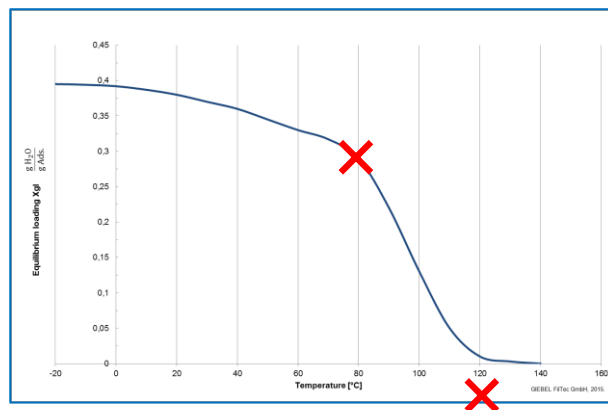
When using an aeration dryer, the temperature is important because it influences the mechanical components and above all the physical process.



The primary limiting component is the desiccant. Due to numerous advantages, such as the colour indicator, simple regeneration, safe disposal and high water absorption capacity, silica gel has established itself in aeration dryers.

In order to achieve the strongest possible binding of the water molecules to the silica gel surface, a low temperature is advantageous.

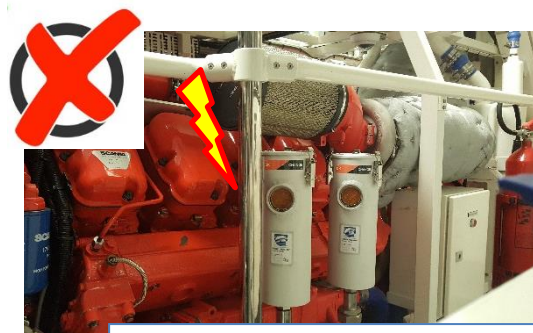
From approx. 80°C weaker bound water molecules are released from the surface and can flow into the plant to be protected. At 120°C the silica gel is even completely regenerated.



Furthermore, standard ventilation dryers are made of a plastic housing, which can become brittle and fragile at higher temperatures. Here the permanent temperature limit is approx. 60°C without damage to the housing.



Deployment's okay. Low temperatures are advantageous and no problem for the adsorbers.



Despite the use of metal adsorbers (max. temperature 80°C), the adsorbers must be protected from the heat source.