

How to keep your dehumidifier in a good condition? VENTILATE!

Besides the regular maintenance, such as filter and evaporator cleaning, each dehumidifier also needs to be operated in a suitable environment. Above all, the main requirement is **regular and sufficient ventilation**.

Why ventilate?

The water in your pool gets contaminated with microorganisms, that are carried into your pool by the swimmers, and needs to be disinfected. The most common and most effective disinfectant is free chlorine, either applied directly or produced by electrolysis from saltwater. The free chlorine reacts with biological impurities in pool water (especially ammonia derivatives such as sweat or urine) – the impurities bind with the free chlorine, creating bound chlorine in the form of mono-, di- and trichloramine (nitrogen trichloride) gases. **Nitrogen trichloride** is a gas that is only poorly soluble in water; therefore, it has a tendency to evaporate from the pool surface very easily, while remaining in the air around the pool.

Trichloramine-saturated air is very harmful not only to all living organisms, but also to everything that is in the same area. Such environment is very aggressive and can cause rapid degradation of both pool equipment and supporting structures around the pool.

What to do?

Since removing trichloramine from the air is rather difficult, a regular air exchange must be provided in the pool area. Unless the air around the pool is regularly changed, the trichloramine concentration will rise and the trichloramine vapors will coat everything in the proximity of the pool. These vapors will eventually cause heavy corrosion of metal parts and degrade most of non-corrosive materials, resulting in dehumidifier failure.

Therefore, please always ensure that **sufficient ventilation is provided** in the pool area. A regular air exchange will help to keep your pool dehumidifier (and other equipment) in good shape – not mentioning that the health risks to the pool users will be reduced significantly.