

# DOES YOUR MEDIA NEED TO BE CHANGED?

The evaporative media in your evaporative cooling system is the most important aspect of the cooling process. When the media becomes old, damaged or heavily soiled it will need to be replaced to ensure the performance of your system. While Kuul evaporative media is designed to be self-cleaning, when wet, the media can become caked in dust, calcium salts and other organic materials. Extreme water pH levels can cause irreparable damage to the media and mechanical damage can inhibit adequate airflow.

Knowing when to replace your evaporative media is important, but due to varying environmental aspects, there is no single simple answer on how often this task needs to be completed. To aid in determining if your evaporative media needs to be replaced, we have developed a list of conditions that require replacement.

## Sagging or softened media

Evaporative media that has been damaged by extreme pH levels or harsh chemicals in the water will soften and often sag in the system frame, resulting in large gaps where warm air can impinge into the system. These gaps result in a dramatic loss of cooling efficiency.

## Increased static pressure

When a serious buildup of dust, particulates and organic materials occurs on and within the media an increase of static pressure will be noted. While air may still be flowing through the media, this static pressure increase puts a strain on other system components, such as fans, belts and pulleys; and increases electrical consumption significantly.

## Damaged media

If you notice holes, tattering or mechanical damage in and on your media, it will need to be replaced. These damaged areas could allow warm air into the system, reducing cooling efficiency.

## Loss of cooling

Many factors can cause a reduction in total cooling performance as noted above. If a noticeable drop in total cooling is observed, it is possible that the evaporative media will need to be replaced.

## Reduction in wind speed

As with the loss of total cooling performance, a reduction in media face velocity and system air speed is a possible sign evaporative media needs to be replaced. The system's integrity needs to be checked for leaks and fan performance prior to changing the evaporative media.

If you have questions on replacing your evaporative media, please contact one of our Kuul Specialists for more information.

