

Climacell/evaporative cooler maintenance during storage season and off season.

Why you want to keep up the maintenance thru the season.

- 1) Inefficient unit will not keep up with RH in storage required which causes shrink loss
- 2) Mineral build up can lead to loss of evaporation capacity to a point of media replacement is needed – a very costly service – e.g. 10' by 10' 18" deep media replacement will cost about \$8000 parts and labor
- 3) Main cause for mineral deposit is lack of water flow thru the media that washes it down from it, secondary cause is excess mineral content in the water- you will see a deposit of it at the bottom of the tank after few months of operation – water softener can be used – there are many types available on the market today including electronic impulse types, some of them are bit pricey but nothing compared to shrink loss/media replacement cost

During storage check and maintenance.

- Check in line pump filter – frequency depends on an area you are in and amount of traffic around the storage causing excessive dust, start with every 2 weeks, you will learn your particular pattern for filter cleaning ,excessive flies/other insects in storage or outside are a major cause for filter
- Inspect bottom of the tank for dirt and mineral buildup, you may have to drain the tank to flush it out once or twice per year during storage season
- Look at climacell on upstream and downstream side – check for mineral lines, dry, saturation level of the media best check – if you touch media downstream your hand needs to be wet – that is a good saturation level, media will have dark brown color, do not worry about off dripping, at least you know media is well saturated, best checked if using 100% outside air
- If pump needs to be replaced replace with original design or similar/better – 2 gal per lineal foot at give head is required – e.g. 12' high, 10' wide 18" media cell will require 20 gal/min pump at 13'-15' head capacity – many pumps come with pump curve showing capacity charts/graphs, good pump is money well spent, outside tank recirculation pumps for larger system are best
- If you have multiple pump system, please make sure they are all operational – this will assure efficient operation/high saturation and extends life of the climacell media
- Check water float and water level, level needs to be ideally right at bottom of media line
- Adjust float switch as needed or replace as needed, water feed is very important, if your float valve can't keep up most of the times you may need to install second float or higher flow rate

When you finish storing.

- **Drain the water from the tank first, before you start turn off water feed, drain off water bypass line(s) – usually opposite return line side from the pump, this will dry up media and tank, do not delay, keeping water level high covering media submerged can breakdown media over time, it is also unsanitary since bacteria will thrive in media and tank**
- **Use wet vac to clean bottom of the tank**
- **You may need to shock treat climacell with white vinegar use 5oz per lineal foot of media, run cell for 6 hours with fans off or at low air flow to get full rate if water distribution thru the media, drain tank and repeat if needed, this also disinfects media and the tank, drain after treatment and let it dry, do not use more vinegar that recommended**