

Why Choose a SUMMIT-TPC Premium Adiabatic Cooler

Extracts from 'The Control of Legionella in Dry/Wet Cooling Systems produced by The Water Management Society Working Party, HSG274 Part 3 reference guide:

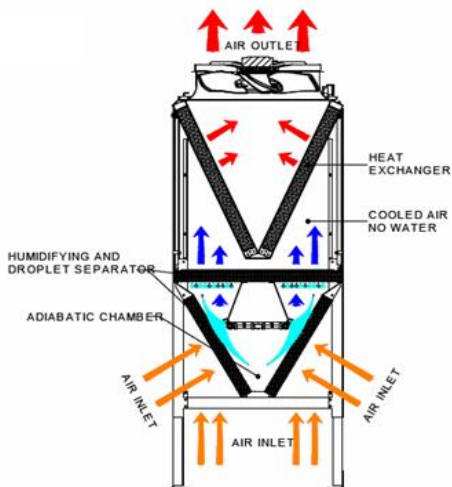
Any water system that has the right environmental conditions could potentially be a source for legionella bacteria growth.

There is a reasonably foreseeable risk in your water system if:

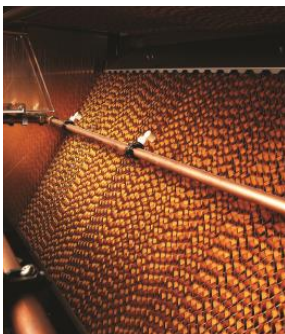
- Water is stored or re-circulated as part of your system
- The water temperature in all or parts of your system may be between 20-45°C
- There are deposits that can support bacterial growth, such as rust, sludge, scale and organic matter
- It is possible for water droplets to be produced and, if so, if they can be dispersed
- It is likely that any of your employees, contractors, visitors etc could be exposed to any contaminated water droplets



Summit TPC Premium Adiabatic Coolers do not create external aerosols but utilise an internationally patented chamber keeping the adiabatic process within the unit. This system also keeps the coil blocks dry eliminating scaling and avoiding the risk of proliferation of bacteria such as legionella.



Patented Adiabatic Chamber:



How it works:

- High-temperature ambient air passes through the lower adiabatic chamber
- In the chamber, nozzles create a fine mist of water from a separate source
- Humidification of the air reduces the temperature prior to contact with the heat exchangers
- To ensure consistent cooling and minimal water use, the control system continuously adjusts the amount of water used. The coil blocks, meanwhile, remain completely dry
- Patented design prevents water drift outside the chamber, eliminating heat exchanger scaling and dangerous waterborne diseases, such as Legionella

Advantages:

- No external sprays
- Coils remain dry
- Once through system, no recirculation
- Controlled & low adiabatic use; saving water
- Minimal footprint
- EC Brushless fans – low energy use
- Quiet operation
- Stainless steel construction

Brushless fans:

Compared with standard fans (equipped with AC motors, with step-controlled speed, or with phase cut), brushless fans grant the following advantages:

- Higher reliability and longer life
- 100% adjustable speed
- High efficiency (over 30% less power consumption)
- Low noise (less than 57dB(A))
- Meet EMS Regulations

