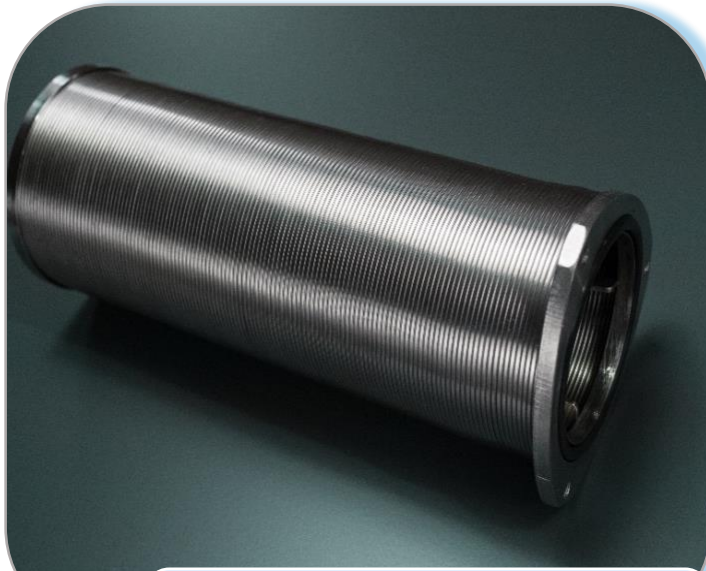


# World's Largest Fragrance and Flavor Company Installs ZGF Spring Filter on Process Cooling Loop

The Most Advanced, Automatic,  
Non-Disposable Liquid Filtration System



HVAC



**The Phoenix filter has (6) proprietary, absolute gap ZGF Spring Filter elements**



**Pneumatic Phoenix  
Flowrate: 180 gpm  
Filtration: 50 $\mu$  Absolute Gap**

## **Customer Challenge:**

A processor of artificial flavors and fragrances was seeking a filtration solution to keep the cooling tower water clean to protect the process-cooling loop. At the time, no filtration was being used, and they were evaluating several options including Zero Gravity Filters Spring Filter technology, other automatic filters, and bag filters.

## **ZGF Solution:**

A 30-day trial with a pneumatic Phoenix was conducted on the tower pond (lower photo).

ZGF installed a pneumatic Phoenix and pump combination mounted on a skid. The filtration system was configured to provide side-stream filtration of the cooling tower pond. A manifold with three eductor nozzles was fitted on the Phoenix discharge line to stir the tower pond.

After a successful trial, a pneumatic Phoenix was supplied with components that comply with the explosion proof environment of the process.

## **Results:**

- Within 8 days, the Phoenix greatly improved the water quality of the cooling tower pond.
- The Phoenix maintained cleanliness of the process cooling loop and prevented the plate heat exchangers from fouling
- The cooling tower pond is visually cleaner.
- The ZGF system required virtually no maintenance
- The Phoenix filter does not use disposable media. There is no interruption in service or waste generation that is associated with bag filters.
- **Implementation of the Phoenix filter resulted lower energy consumption and less maintenance.**