

NIAGARA BLOWER SOLUTIONS

What is WSAC®?

The Wet Surface Air Cooler is a closed-loop, evaporative cooling system.

Wet Surface Air Coolers are optimized for industrial applications where rugged design/fabrication and cost effective efficient closed-loop cooling/condensing are required.

Applications:

Liquid Cooling
Gas Cooling
Vapor Condensing

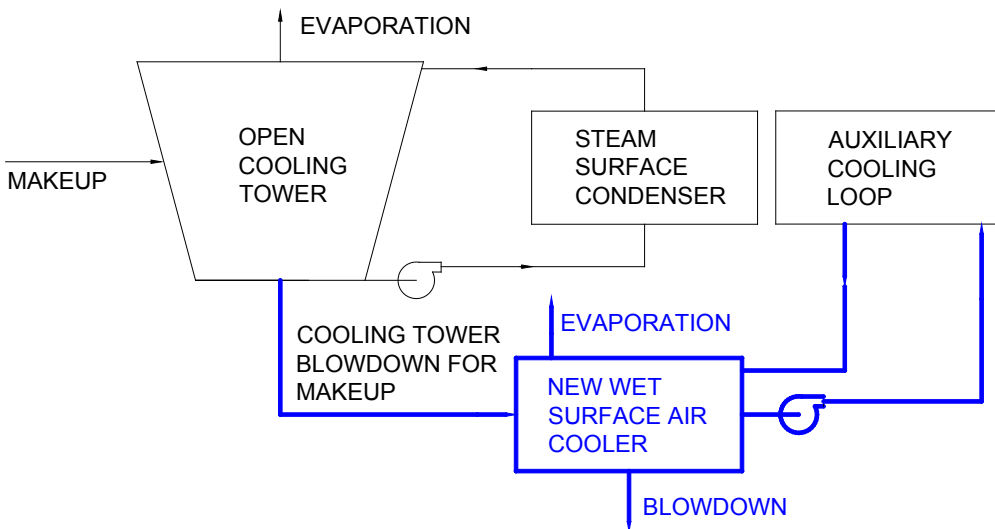
Industries:

Refining
Power
Wastewater
Pulp & Paper
Metals
Mining
Food/Beverage

POWER PLANT DE-BOTTLENECKING OF STEAM SURFACE CONDENSERS

THE CHALLENGE During hot weather periods, turbine (and therefore plant) output is limited by high steam condensing temperature/pressure.

THE SOLUTION Install a closed-loop Wet Surface Air Cooler (WSAC®) to handle the aux load.



THE WSAC® ADVANTAGES

- The blowdown from the tower can be used as makeup to the WSAC
- Makeup water and blowdown quantities will be significantly reduced (as much as 57 million gals/yr in a 525 MW plant)
- Total evaporation rate from the plant will not change
- Taking the aux load off the cooling tower will improve tower capacity, provide additional capacity for steam condensing and **increase power output**

For more information about this as well as other WSAC applications, please contact our factory office.



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