SPX Profiles

SPX Cooling Technologies water conservation technology helps keep precious resources from disappearing into thin air. Introducing Air2Air™ on-site water generation.

In a continuing effort to lead the field in water conservation technology, SPX Cooling Technologies introduces their latest patented breakthrough in industrial cooling tower design – the Air2Air water recovery system. Available both for existing and new cooling towers, customers can reduce cooling tower water consumption by up to 30% annually.

More and more industries are facing serious operating constraints due to lack of water resources. The impact to most industries is enormous, with an impact of millions of dollars in lost production and increased water costs. Many plants are finding it difficult to get approval for plant expansions, solely based on lack of water.

SPX scientists and engineers have developed a simple and effective system for recovering much of the water that is evaporated in a standard cooling tower. Recovered water can be returned directly to the tower basin, or even piped away as a pure water stream for boiler make-up or other plant uses.

This revolutionary design utilizes a series of PVC heat exchanger packs in the tower plenum area, using cooler, ambient air to condense much of the moisture before it exits the tower. The system can be installed on a single cell, or on an entire tower, depending on the required water return rate.

Use of this system can allow greater plant production, reduce water consumption and treatment cost, and even replace more costly means of generating pure water.

By combining the Air2Air technology with a hybrid, split steam system, steam plant cooling systems can be optimized to provide the most efficient use of available resources.

SPX **Cooling Technologies**

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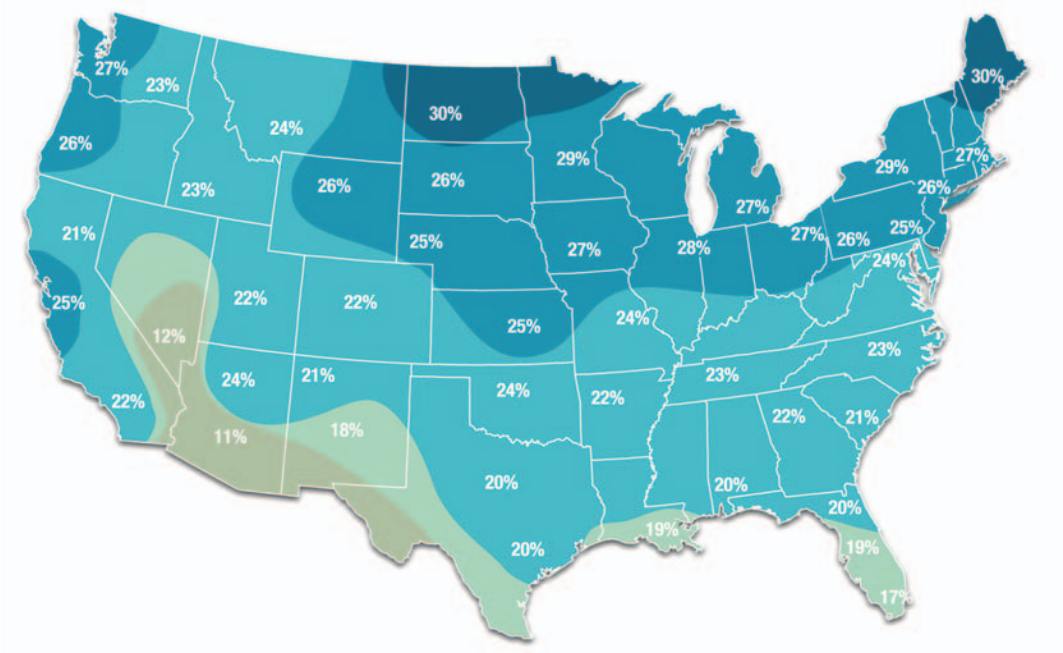

/ Key Features /

- Water Conservation
  - Less make-up
  - Less chemical treatment
- Compared to ACC Dry Cooling
  - Colder water
  - Less power usage
  - Lower capital cost
- Possible Collection/Use – high quality condensate
- Reduced Plume – lower actual humidity of exit air

/ Annual Water Savings – USA /

Water Savings – Gallons per Day			
A typical 500 MW combined cycle power plant	12%	18%	21%
	345,000	515,000	600,000
	24%	27%	30%
	685,000	770,000	865,000

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