

INTRODUCING  
Air2Air Cooling Technology

*/ We can save you water. **A lot of water.** /*



# Water, Water Everywhere?

Water. We can't live without it. And, in many parts of the country, we can barely get enough.

The impact on industry is huge. Short water supplies can limit plant production, block industrial growth and expansion, drive up treatment costs for the water that actually is available, and heavily burden existing infrastructures. Meanwhile, the more usable water an operation demands, the less energy-efficient it becomes.

But now there is real help on the way.

## It Took SPX to Create the Solution

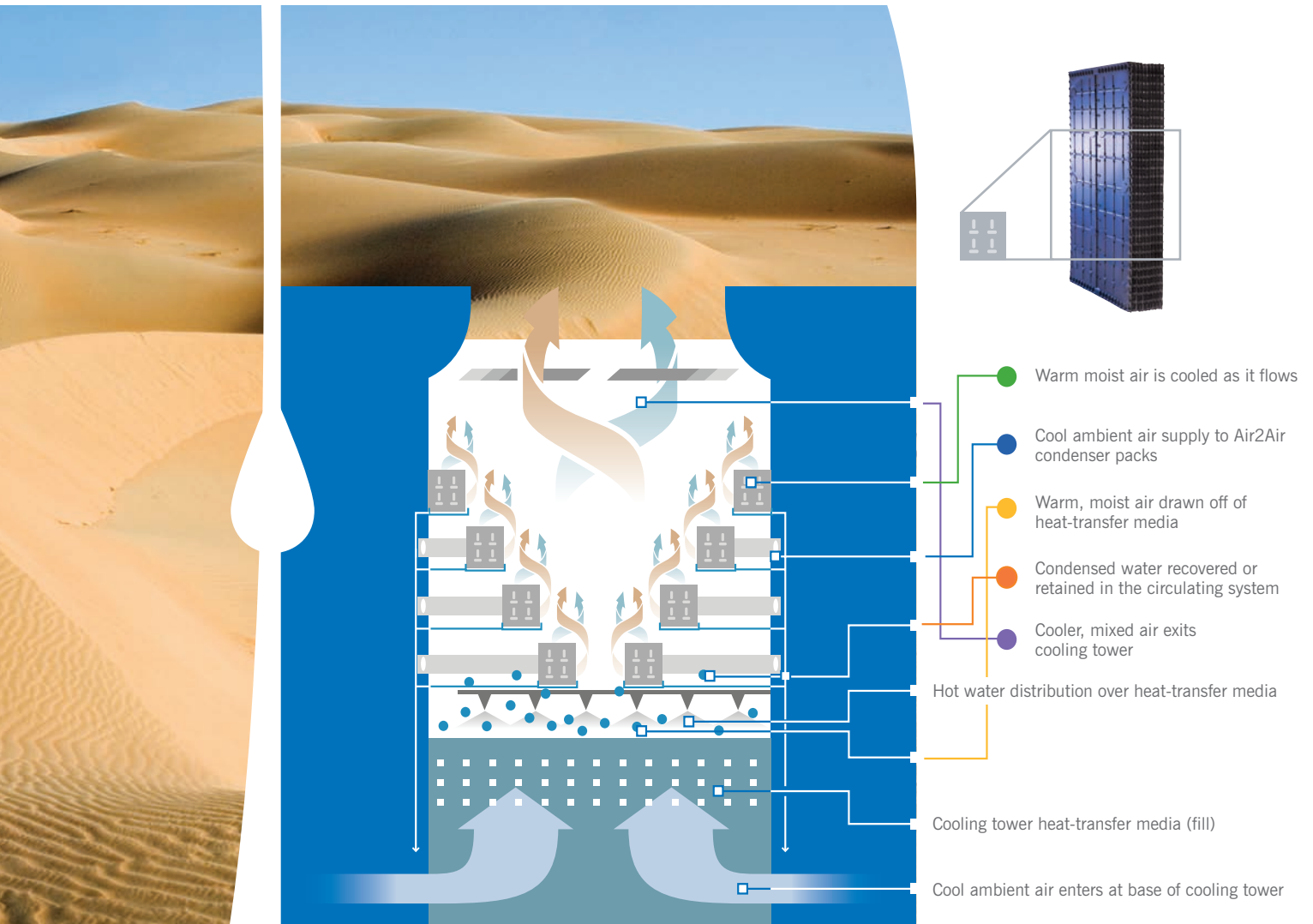
Enter SPX Cooling Technologies. Our unique Air2Air water recovery system does what no other cooling technology can:

Reduce your cooling tower water consumption by up to 30% annually.\*



That level of reduction can add up quickly, fueling your productivity and growth while increasing energy efficiency. And Air2Air systems can be used in either new or existing cooling towers.

\*Dependent upon system operating conditions and local weather conditions.



### Nearly Pure... but Hardly Simple

The patented heat-transfer technology behind Air2Air is the product of many years of research and testing. The revolutionary solution is shown here.

Air2Air uses a series of PVC heat exchanger packs in the tower plenum, allowing 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.

And what to do with the water you save? It can be cycled back into the cooling system. Or piped away as a pure water stream for boiler make-up or other plant uses. Or even returned to the local aquifer – it's that pure.

# Pull the Plug on the Plume

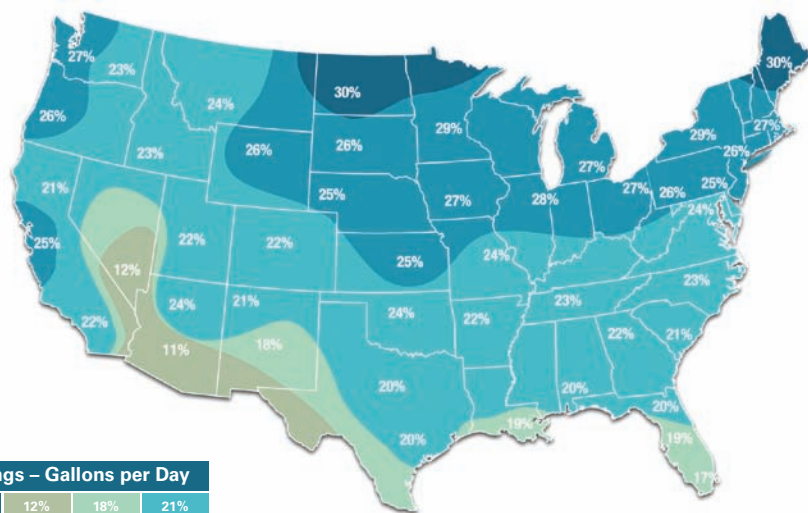
Because Air2Air is a fully integrated system, it operates far more reliably than coil-based systems. And that means:

- + Simpler hydraulics for simpler operation
- + Fewer moving parts, requiring less maintenance
- + No freezing concerns

So visible plume is greatly reduced – and the headaches associated with conventional coil systems disappear, along with the need for external plume abatement systems.

What's more, combining SPX's Air2Air technology with a hybrid, split-steam system can further reduce your tower's consumption of water and the telltale plume that results.

This map shows the annual water savings by state that could be accomplished if Air2Air technology were to be widely adopted.



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



## Report from the Field

No part of the country is more sensitive to water issues than America's desert Southwest.

Installation of a pilot project using Air2Air was recently completed in northwest New Mexico. Built in cooperation with the U.S. Department of Energy, the Air2Air technology was applied as a power plant adjunct and has just come online.

To register for Air2Air program updates, visit [www.spxcooling.com/a2a](http://www.spxcooling.com/a2a).



## Bottom Line: It's All Good



With an SPX Air2Air system working for you, a long list of good things follows:

- + Water consumption cut by up to **30%**
- + Less need for costly pure water make-up
- + Less chemical treatment
- + High-quality condensate available for other uses
- + Reduced plume due to lower actual humidity of exit air

Not surprisingly, the net result of all these factors can significantly impact your bottom line.



### What's It Worth to You?

Let us show you what your specific economic payback could be.

Simply go to [www.spxcooling.com/a2a](http://www.spxcooling.com/a2a) and indicate your interest in receiving an economic payback analysis for your planned or existing facility. Once we process the information you provide, we'll send you a calculation of the savings you can expect from using Air2Air.

And be prepared: You're likely to be (pleasantly) shocked by just how much an Air2Air system can save you – both in precious gallons and critical dollars.



### **Green: It's Not Just the Color of Money**

With environmental concerns higher than ever today, SPX's Air2Air technology can help you accomplish something concrete and significant – and something that benefits everyone.

*Just consider this:* One large cooling tower fan cell equipped with an Air2Air system can save nearly 270 million 8-ounce glasses of water every year. That is almost enough to quench the thirst of every person in the United States. And that's only one cell, for only one year.

### **Get All the Facts**

We believe that our Air2Air Cooling Technology is an idea whose time has clearly come – and whose contribution to both our country's industries and our environment can be as remarkable as they are immense.

**To learn all about Air2Air,  
please visit [www.spxcooling.com/a2a](http://www.spxcooling.com/a2a).  
Or call 913 664 7400.**

SPX Cooling Technologies is a world leading full-line cooling tower and air-cooled condenser manufacturer. The company provides the highest-quality evaporative cooling towers, fluid coolers and evaporative condensers under the Marley, Recold and Balcke brand names.

**SPX**<sup>®</sup>

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