

Increase Gas Flow Increase Cash Flow



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White Paper Inlet Cooling for Gas Turbines Driving Gas Gathering Compressors

Improve Gas Flow by 10-25%

As temperatures rise, your compressor's performance suffers, resulting in lost time and decreased production, ultimately affecting your bottom line. We've developed an inlet cooling process that increases horsepower density and improves production by up to 25 percent, no matter the temperature.

The ECOChill Solution

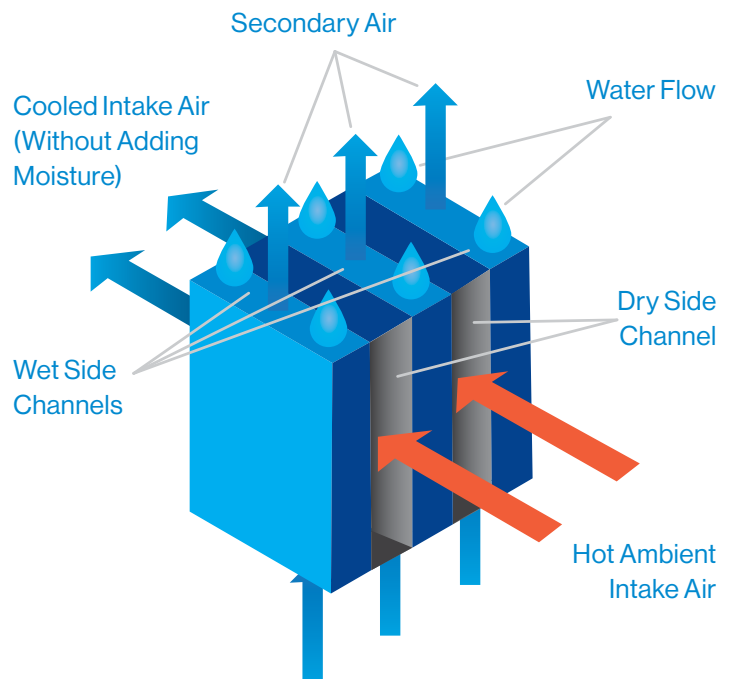
The ECOChill is a breakthrough in gas turbine inlet cooling, using our patented hybrid indirect evaporative process, called the Everest Cycle®. This integrated hybrid system delivers efficient, economical chilling in all climate conditions by increasing horsepower density. This lowers costs by up to 50 percent compared to traditional compressor solutions.

- Modular Delivery Leads to Quick Installation with Minimal Downtime
- Modular Solution Available in Less Than 6 Months
- Only Requires a Small Amount of Energy and Water

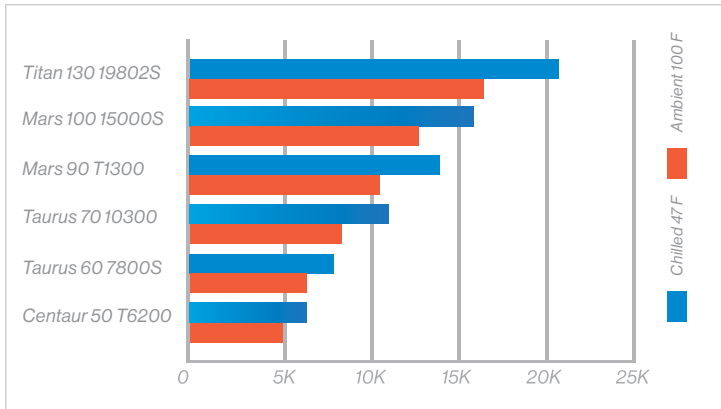
How it Works

With an Everest Sciences system, warm air goes in and cool air comes out, without much energy used in between. We use a combination of indirect evaporation and mechanical chilling to cool ambient air before it enters your gas turbine.

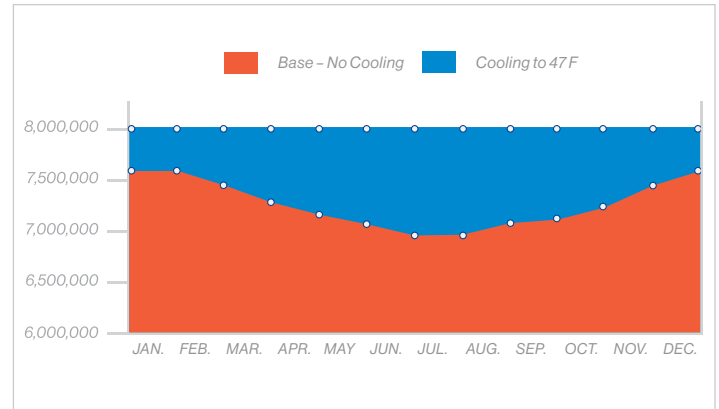
This cooler, denser air increases the overall mass flow, resulting in improved efficiency and increased production. Additionally, our automated systems provide a constant output, so your gas flow – and revenue – stays consistent, no matter the ambient temperature.



Chilled Turbine Output (HP)



Monthly Lost Production – Taurus 70



Simple Installation and Operation

Modular components are quick to install and require no modification to your gas turbine – meaning you can get back to production quickly. Once our products are in place, you’re back in operation – they’re fully integrated with your controls and require very little user training and maintenance.

New Compressor Drive Applications

Operating below full system capacity leads to reduced revenue for hot-day delivery. Our breakthrough inlet cooling solution increases horsepower for up to 50 percent less than traditional solutions – with no incremental piping or auxiliary equipment.

Existing Compression Drive System Optimization

Existing pipes, as well as separation and fractionation facilities, can be limited during much of the year. Retrofitting inlet chilling can add 15 to 25 percent more compressor throughput with no modifications to the high-value piping and processing equipment.

