



Powertron
Global®

Introduction to Powertron Global

► **ALL HVAC SYSTEMS LOSE COOLING CAPACITY AND EFFICIENCY AS THEY AGE EVEN WITH PROPER MAINTENANCE.** 70% OF ALL HVAC IN THE US ARE OPERATING ~40% OFF OF ITS ORIGINAL EFFICIENCY AND THE RESULT IS LONGER RUNTIMES (ROOFTOPS), RUNNING AT HIGHER LOADS (CHILLERS), AS WELL AS INCREASING ENERGY, MAINTENANCE AND CAPITAL REPLACEMENT COSTS.

In addition to the lost capacity, large systems (Chillers) are complex and have many areas that drift away from optimal performance. Mechanical wear, sensor calibration issues, operation sequencing, building operation changes, thermal energy losses, thermal usage of water, control system deficiencies, and building operator turnover are some of the issues that affect system performance.

THIS EPIDEMIC INEFFICIENCY IS A PROBLEM (AND AN OPPORTUNITY).



Powertron Global is a data driven company focused on delivering solutions to address these inefficiency issues to redirect that wasted energy spend back to your bottom line profitability. In 10+ years after millions of dollars spent, we have amassed an enormous library of comprehensive scientific data for our solutions under the industry's standards and best practices. We have more data supporting our technology than any manufacturer for any product in the HVAC industry. Our data is comprised of over 300 studies certified by professional engineers (P.E.'s) on 5 continents, 38 countries, in every type of equipment, in diverse environments, and in the leading HVAC performance laboratories in the world. We have the data that you can trust to make purchasing decisions when buying HVAC equipment and products.

▶ At our core, we have proprietary products (NMR® fluids) that work on coil surfaces to remove all contaminants (interior and exterior) to keep your heat exchangers transferring energy at the optimal rates. In addition to our core lines, our Continuous Thermal Optimization (CTO) hardware and software is specifically designed to measure and monitor all energy and efficiencies at a forensic level. This data will allow our engineers to tune the systems to optimal performance and keep it there. Many facilities have controls systems but they are more focused on system operation and do not effectively self audit and diagnose optimization issues. Our CTO offering is equivalent to having a full time laboratory test conducted in real time and completely unique to the market.

Powertron NMR®, Powertron Continuous Thermal Optimization, and Forensic Engineering Optimization work in conjunction to have your HVAC operating at optimized levels 24/7. Our goal is to use as few watts as possible for every ton of conditioned air needed for the facility.

WE KNOW HOW TO FIND THE PROBLEMS AND DELIVER FINANCIAL RESULTS. EVEN IF YOU DO NOT HAVE THE CAPITAL BUDGETED, WE CAN OFFER INSTITUTIONALLY FUNDED PROGRAMS WITH NO CAPITAL UPFRONT. LET US DESIGN A PROGRAM FOR YOU TODAY TO MEET YOUR SUSTAINABILITY GOALS.



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**TECHNICAL
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