



Determining which optimization solution is right for your chiller plant

Optimum Energy is the industry leader in chiller plant optimization and offers two, patented solutions to meet your needs. Choosing which solution is right for your chiller plant really comes down to its size and complexity. However, both solutions follow the unsurpassed, Equal Marginal Performance Principle to provide real time, closed loop optimization.

Specification	OptimumEDGE®	OptimumLOOP®
Optimization Method	<ul style="list-style-type: none"> Patented, relational control algorithms based on the Equal Marginal Performance Principle 	<ul style="list-style-type: none"> Patented, relational control algorithms based on the Equal Marginal Performance Principle
Number of Chillers Optimized	1-3	No limit
Maximum Combined Cooling Capacity of Chiller Plant	Up to 3,000 tons	No limit
Supported Chiller Types	<ul style="list-style-type: none"> All water-cooled centrifugal chillers and select water-cooled screw chillers 	<ul style="list-style-type: none"> All water-cooled centrifugal chillers and select water-cooled screw chillers
Supported Piping Configurations	<ul style="list-style-type: none"> Supports one condenser water loop and one chilled water distribution loop 	<ul style="list-style-type: none"> Supports multiple condenser water loops and multiple chilled water distribution loops
Optimization Points	<ul style="list-style-type: none"> Primary chilled water pump speed Chilled water differential pressure set point Condenser water pump speed Condenser water supply set point Cooling tower fan speed Chilled water set point 	Engineered, Variable
Optimized Chiller Staging	No	
Supports Thermal Energy Storage	No	
Approximate Energy Savings	15%-20%	Up to 50%
Engineering Site Assessment Plus Measurement and Verification	Optional	Required
Optional Machine Learning Enhancements	No	<ul style="list-style-type: none"> Dynamic Sequencing, Predictive Free Cooling, Chiller Diagnostics
Setup and Implementation	<ul style="list-style-type: none"> Authorized Resellers utilize specialized training and tools to provide fast setup and installation 	<ul style="list-style-type: none"> Optimum Energy engineers work directly with customers and controls integrators to successfully implement customized solutions
Measurement, Visualization, Reports and System Alarms	<ul style="list-style-type: none"> Standardized dashboard and reports auto-built using plant details display meticulous, real time chiller plant performance and operational insights Data is delivered to the secure OptiCx® cloud-hosted platform and is accessible anytime, anywhere from a web browser 	<ul style="list-style-type: none"> Customized dashboard and reports display meticulous, real time chiller plant performance and operational insights including enterprise views which summarize information from multiple chiller plants across a building portfolio Data is delivered to the secure OptiCx® cloud-hosted platform and is accessible anytime, anywhere from a web browser