



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 |