OptimumEDGE is a patented, turnkey software solution which significantly reduces energy costs in water-cooled chilled water systems with up to 4 chillers and a combined cooling capacity of between 400 and 3,000 tons.

OptimumEDGE runs on a JACE® 8000 controller which operates with Niagara 4, the latest version of Niagara Framework®, for optimal security and performance.

The JACE 8000 controller which ships with OptimumEDGE becomes the integration point between any building automation system and the OptiCx® cloud-hosted platform. OptiCx provides real time chiller plant performance monitoring and reporting.

Software Specifications
The controller comes preloaded with a setup wizard that configures and installs the OptimumEDGE software to meet the equipment specifications for each site. OptimumEDGE uses BACnet® or Modbus Ethernet-based protocols to interface with any BAS or PLC system.

Control Points Optimized
• Primary chilled water pump speed
• Chilled water differential pressure set point
• Condenser water pump speed
• Cooling tower fan speed
• Chilled water set point

Connectivity Specifications
Connectivity between the OptimumEDGE controller and the OptiCx cloud-hosted platform requires a high speed data connection provided by a secure, ethernet or M2M cellular network connection.

OptimumEDGE ships with a Tempered Networks HIPswitch 150e with integrated NL7588 expansion module to provide a cellular connection.

HIPswitch Hardware Specifications
Ports
4 x 10/100/1000 Mbps on RJ-45 Ethernet Ports
1 x SFP 1000BASE-X, SGMII Port
NL7588 Cellular Expansion Module
4G LTE
2 x Cellular Antenna connectors (SMA)
Storage Temperature Range
-40° to 85° C (-40° to 185° F)
Operating Temperature Range
0° to 70° C (32° to 158° F)
Operating Humidity
5% to 95%
Power
DC 12-48 VV ==1.5A - 0.375A, 18W
Dimensions
6.1in H x 2.16in W x 3.94in D (155mm H x 55mm W x 100mm D)
Mounting
DIN-rail, wall-mount, or rubber feet
Regulatory Approvals
• CE EN 62368-1
• cETLus UL 62368-1:2014 (2nd edition)/CSA C22.2 No. 62368-1-14
• IEC 62368-1:2014 (2nd edition)
• FCC Part 15B 2016 Class A
ABOUT OPTIMUM ENERGY

Optimum Energy software helps customers reduce energy use in heating and cooling systems, which are the largest consumer of energy in buildings. Our software is being utilized in hospitals, hotels, universities, office buildings and other facilities around the world, saving our customers energy, reducing their carbon emissions and helping improve their operations.

To request additional information about OptimumEDGE or to inquire about becoming an Optimum Energy Authorized Reseller, contact info@optimumenergyco.com or call (888) 211-0918 and choose option 4.