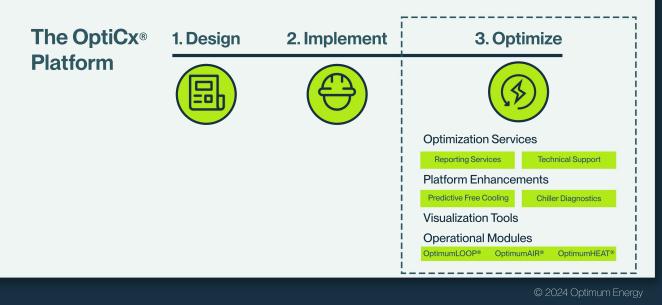




OptimumAIR[®] is patented, state-of-the-art configurable control software that comprises one operational module of the Optimum Energy OptiCx[®] platform. It provides continuous, automated, system-level optimization of direct digital controlled (DDC) variable air volume air handlers to provide building space temperature, flow and relative humidity requirements in the most efficient manner possible. This platform module, inter operable with multiple building automation systems (BAS), improves occupant comfort and dramatically lowers costs. Energy savings with OptimumAIR[®] range between 20-40%.

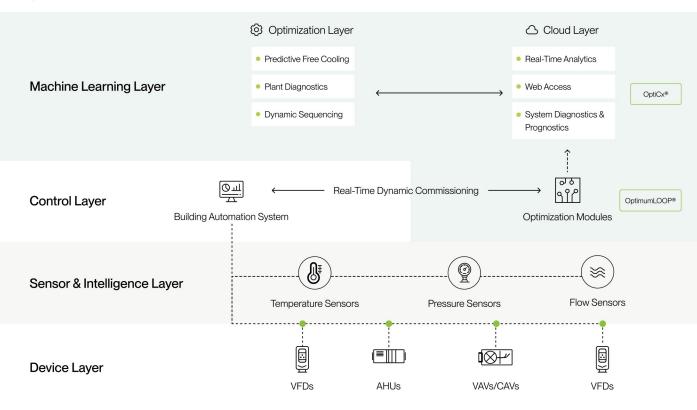
HOLISTIC, SYSTEMS-LEVEL OPTIMIZATION VIA PATENTED, RELATIONAL CONTROL ALGORITHMS

OptimumAIR[®] demand-based relational control algorithms automatically adjust airflow to deliver precise output while using the least amount of fan power, chilled water and heating energy to meet temperature, humidity and airflow requirements. In contrast to conventional methods that operate systems to static temperatures and pressures or optimize based on "worst case" zones, OptimumAIR® reads the actual required airflow and holistically regulates energy exchange across the chiller plant, boiler plant and AHU system in real time. Our relational, whole systems approach ensures energy use and savings are always optimal, while safeguarding space requirements.



411 First Avenue South #500 Seattle, WA 98104 888.211.0918 www.optimumenergyco.com

OptimumAIR® Technical Architecture



OptimumAIR® BENEFITS

Improves occupant comfort

Significantly lowers operating expenses

Sustainably reduces energy use by up to 40%

Substantially reduces water use (due to reduced ton-hrs at the chiller plant)

Automatically, continuously optimizes variable air volume systems in the most holistic,

economical manner

Adapts and responds to real-time building

loads and changing ambient and occupancy conditions

Delivers consistent savings across industries, settings and control systems

Streamlines operations and lengthens equipment life

Saves operator intervention time and increases personnel productivity

Pairs with world-class, full-lifecycle support and engineering services

HOW OptimumAIR® MAXIMIZES EFFICIENCY

Our solution continuously and dynamically:

- Supplies the required cubic feet per minute (CFM) using the lowest possible amount of energy
- Reduces simultaneous heating and cooling inherent of VAV systems with perimeter reheat Decreases the amount of heating produced by boilers or electric resistance heat Minimizes ton-hrs at the chiller plant Supplies cooling from the most efficient source—air or chilled water—according to real-time conditions

Reduces energy waste during air movement through ducts—minimizing static operating pressures, therefore reducing duct leakage