NTD MECHANICAL CONTRACTOR

ECS ENERGY CONTROL SYSTEMS

ENERGY SAVINGS JUST GOT A LOT EASIER

What is the status of your existing HVAC/R equipment? Do you know?

Often times you don't realize you have a problem with your HVAC/R until it stops working. It never fails when its the perfect time of year either.

Why Consider HVAC/R Cost Savings and Monitoring?

•DOE ENERGY STAR and Better Buildings campaigns, also ASHRAE, recommend use of energy-saving retrofits for HVAC and refrigeration (HVACR) equipment. They also recommend addition of automated fault detection and diagnostics. (AFDD)

•Remote monitoring and AFDD can greatly reduce emergency repairs, which are often done at high cost.

•Electric and gas utilities, and governments in some jurisdictions can provide incentives and rebates for these measures.

•These measures can also extend equipment life.

PACE+PACE Cloud by

Pace Controls is known for its industry-leading energy efficiency and smart grid solutions for heating and cooling. With over 23,000 installations, their product has been able to deliver a savings of 15% - 20% within HVAC and refrigeration equipment.

Understanding kWh and HVAC/R energy consumption.

What is kWh? This is the unit of measure used by the electricity company to measure the amount of energy consumed in the space. This simply means it measures the number of kilowatts you used over time.

How does this relate to your existing HVAC Unit? Nearly half of your current utility bill is consumed by the heating and cooling system in a commercial space.

What are the benefits of adding the PACE AI to your existing HVAC/R Equipment?

• **Machine Learning** – Cloud based node solution utilized AI to enhance response of the compressors, burners, and fans from the thermostat. All of this creates a more efficient result from the unit.

• **Fault Detection** – This function provides equipment monitoring reporting back to the operator portal.

• **Anti-Short Cycling** – Provides a cycle/hour protection that will extend the life of your existing equipment.

• **Predictive Maintenance** – All HVACR units require maintenance. Normally these units operate in a stand-alone application that offer operations limited visibility to the current state of the unit. This feature allows the in user the ability to check on the unit, without being on the roof.

• **Machine Data** - This uses thermal mass in the HVACR heat exchangers to maintain cooling and heating set points in the areas being controls.

• **PACE AI** – This is used in cooling and refrigeration applications. It also helps to run the unit's compressors and fans at the minimum interval. By doing this, you receive the maximum quantity of refrigerant flow, per unit of compressor run time.

What applications work best for PACE Controls?

This retrofit product is not only easy-to-install but works with a variety of applications.

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