

75F Launches the Smarter VAV with Reheat System for HVAC Efficiency

Smart VAV with Reheat™ is a continuous commissioning system with out-of-the-box and customization options for energy cost savings and comfort improvement

BURNSVILLE, Minn., August 29, 2017 – Your current HVAC system is wasting energy and likely missing opportunities to optimize indoor air quality (IAQ). Either it's cooling and reheating of supply air can be improved, or it's not making optimal use of airflow based on individual zone needs. Additionally, reusing too much return air to control zone temperatures can negatively impact IAQ. Status quo HVAC standards are inefficient, wasteful and degrade indoor air quality along with limiting HVAC equipment life.

[75F Smart VAV with Reheat™](#) allows all variables in your HVAC system to fluctuate to achieve desired zone temperatures. It enables variable air volume, temperature and pressure to optimize VAV with reheat performance in a continuous commissioning system. 75F solutions use continuous commissioning to enable predictive and proactive management of HVAC systems, harnessing the power of the Internet of Things and cloud computing.

“Our Smart VAV with Reheat can be added in any building. It is ideal for low-rise commercial buildings considering VAV or VVT,” says Deepinder Singh, 75F CEO. “This is a big upgrade of capabilities and savings from traditional VAV and VVT systems. Our Smart VAV with Reheat increases both energy efficiency and HVAC equipment efficiency as an easy-to-install, out-of-the-box solution.”

Our solution adds airflow temperature sensors upstream and downstream from the heating coils for each zone. Rather than constantly running rooftop units (RTUs) in cool-only mode, as is done traditionally, RTUs remain in auto mode. If all zones call for heat, the 75F Smart VAV with Reheat modulates reheat valves open and maintains optimal supply air temperature for user comfort and energy efficiency set points.

Synchronizing with the [75F Outside Air Optimization™](#) (OAO™) solution enhances the functionality of RTU economizers to provide “free cooling” when cool outside air is available. This allows the system to only use cooling coils when outside air is either too warm, humid or low quality to sufficiently improve the indoor environment. Combining Smart VAV with Reheat and OAO can provide over 30 percent direct HVAC energy cost savings in most applications.

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About 75F:

[75F](#) is an award-winning, high-tech start-up disrupting the building automation industry by taking a fresh approach to HVAC, lighting and controls in commercial and industrial buildings. Its mission is to save energy, while improving comfort and indoor air quality. Instead of reacting to problems, the 75F system predicts needs and proactively manages buildings accordingly. Since 2015, 75F has delivered hundreds of energy-efficient spaces to enthusiastic customers who [rave about the results](#). 75F is a proud member of the United Nations Environment Program — Sustainable Buildings and Climate Initiative.