



 **75F**  
THE INTERNET OF AIR

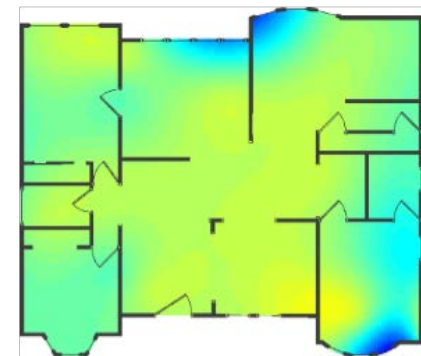
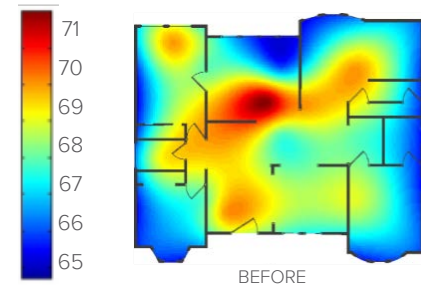
## Award-Winning 75F Solution



National Energy  
Efficiency Winner

Using the Internet of Things, 75F™ harnesses the computing power of the cloud and packs it into smart control devices that make spaces more comfortable and energy efficient. A self-optimizing system, our solution does all the work while you enjoy comfort and savings.

Our award-winning Dynamic Airflow Balancing™ solution predicts the behavior of a building. We build a vast data model by taking a reading of all the sensors every 60 seconds. Powerful algorithms analyze and combine the data with weather forecasts in order to send an optimal control strategy to the Central Control Unit. The Central Control Unit sends instructions to move the smart dampers a few degrees at a time, achieving the perfect balance at all times.



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At 75F, Continuous Commissioning is not a theory. It is everyday practice.

## Saving Energy, Never Felt Better

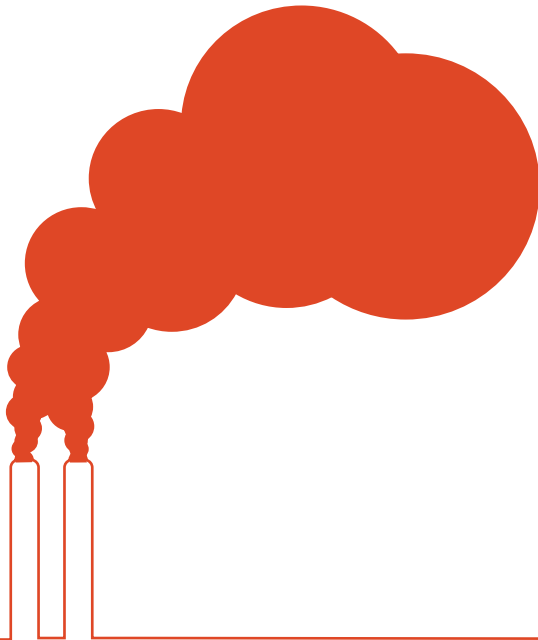
In 2008, the United Nations launched a campaign to raise thermostats in their secretariat building from 70°F to 75°F as one of many strategies to reduce their carbon emissions. We take inspiration from these actions, embodying it in our name and driving both who we are and what we do.



**Sustainable Buildings  
and Climate Initiative**

Partner

75F is a member of the United Nations Environment Program-Sustainable Buildings and Climate Initiative (UNEP-SBCI), an international platform for stakeholders to carry out activities supporting sustainable development. Globally, buildings are responsible for 40% of annual energy consumption and up to 30% of all energy-related greenhouse gas emissions. We are proud that our solution, which can contribute up to 38 LEEDv4 credits, is helping construct a more sustainable world.



Our system has the potential to save the energy equivalent to shutting down 29 coal power plants.



The idea is a novel approach to HVAC sensor technology. It has the potential for increased reduction in air conditioning load through improved sensor technology.

# Be Proactive, Not Reactive

Traditional zone control systems are reactive, responding to errors after they occur and making frantic attempts to correct airflow back to desired temperature by fully opening or closing the zone dampers.

The 75F Dynamic Airflow Balancing solution is predictive. Our Google Big Query Services run smart algorithms to model the thermal envelope of the building and predict heat loads based on the weather. With over 1.6 million lines of code, our model is able to send precise instructions to the system to proactively rebalance airflow and keep ahead of temperature drifts. You don't drive your car looking at the rearview mirror. The same applies for your HVAC system.

## OPTIMIZE COMFORT

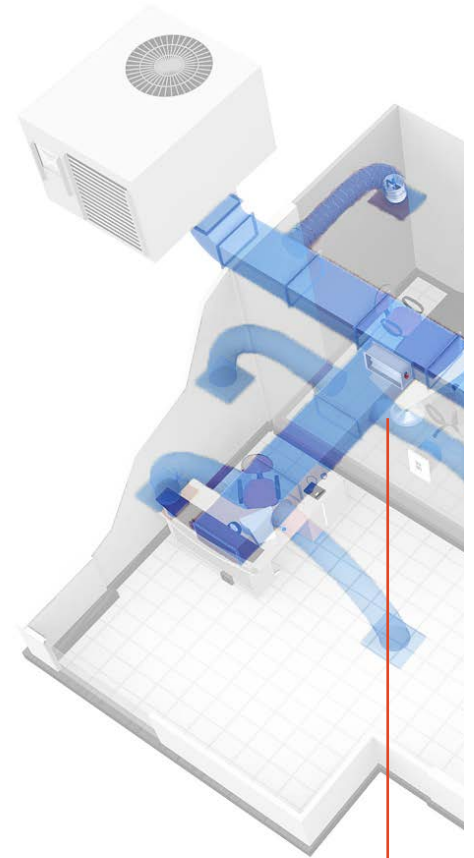
- Individual room control with internet-connected sensors
- Humidity compensation aligns desired and perceived temperature
- Demand control ventilation

## MINIMIZE ENERGY USE

- Multi-stage fan support
- Eliminate bypass dampers
- Occupancy detection and scheduling
- Weather-based tuning adjusts for solar gain

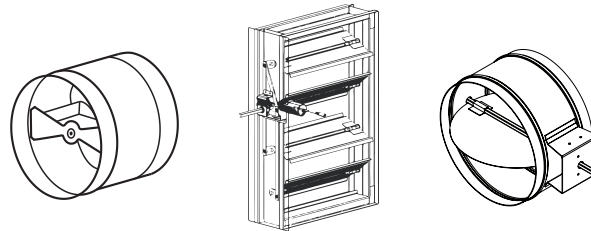
## NON-DISRUPTIVE INSTALLATION

- Utilize existing HVAC infrastructure
- Wireless mesh network



## CONTROL

Smart dampers modulate to optimize airflow and are available in numerous sizes and styles.





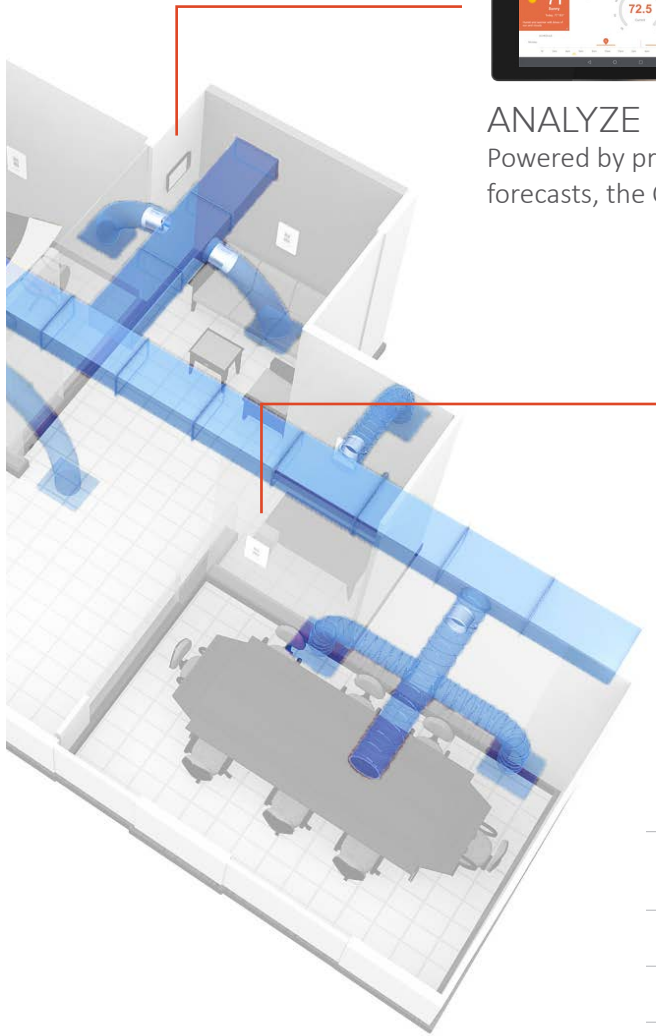
## ANALYZE

Powered by predictive algorithms that combine sensor data and weather forecasts, the Central Control Unit proactively regulates airflow.



## SENSE

Internet-connected sensors take readings every 60 seconds and are designed to fit your decor.

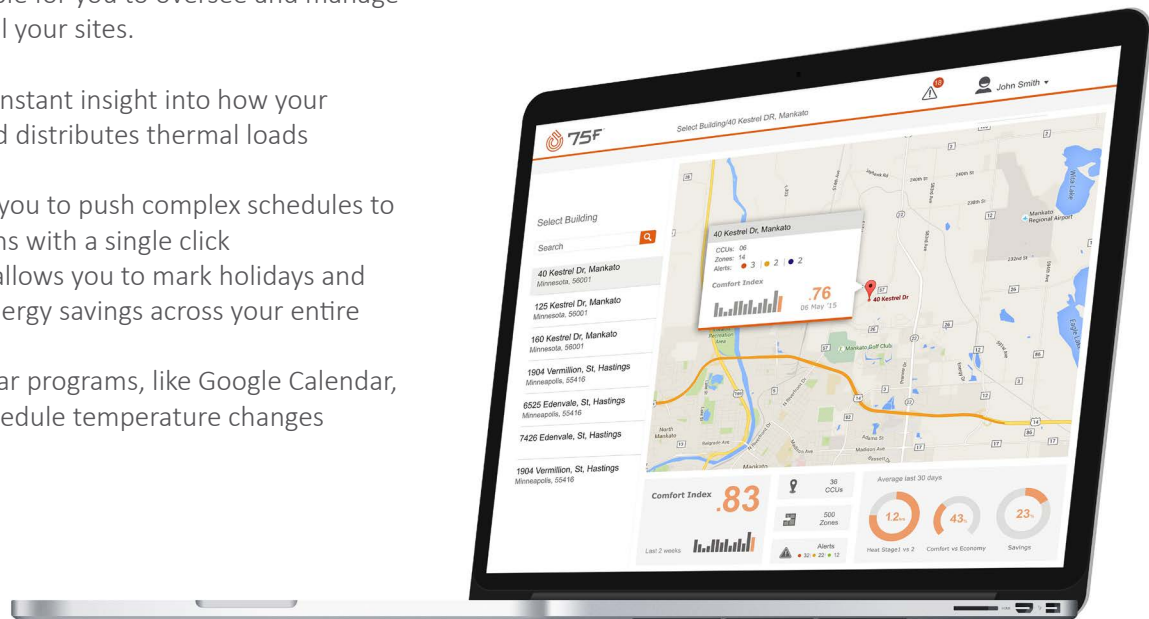


	75F	VVT Zoning	Thermostat
Smart algorithms predict and adjust for thermal loads	<b>YES</b>	NO	NO
Eliminate bypass dampers	<b>YES</b>	NO	<b>YES</b>
Wireless connection	<b>YES</b>	<b>YES</b>	NO
Variable speed fan support	<b>YES</b>	<b>YES</b>	NO
Demand control ventilation	<b>YES</b>	NO	NO
Occupancy detection and scheduling	<b>YES</b>	NO	NO
Suite of web and mobile apps to manage system across all sites	<b>YES</b>	NO	NO

# Control & Monitor From Anywhere

We built Facilisight, a suite of web and mobile apps, to make it as easy as possible for you to oversee and manage the 75F system across all your sites.

- Heat maps provide instant insight into how your building absorbs and distributes thermal loads throughout the day
- Policy editor allows you to push complex schedules to hundreds of locations with a single click
- Scheduling feature allows you to mark holidays and easily implement energy savings across your entire portfolio
- Use external calendar programs, like Google Calendar, to automatically schedule temperature changes throughout the day



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We needed a partner and solution that could react to our business and not the other way around. 75F delivered a very customized solution based on our business needs, delivered it very fast, and has supported us every step of the way.

Ashok D. – YogaFit Franchisee