

The Zonex Fresh Air Ventilator (IFAV) is providing HVAC contractors with an effective solution to help their builders meet the latest fresh air requirements and qualify for Energy Star rebates.

While other controls companies are providing solutions to fresh air needs, none of them are truly meeting Ashrae 62.2 or Energy Star requirements. Zonex Systems has a solution which meets these requirements while allowing for higher efficiencies and smaller units.

First, ASHRAE 62.2 requires minimum fresh air inputs each day, based on the size of the home and number of rooms. When traditional methods of fresh air intake are used, no attention is paid to what outside temperature is or how this effects the system operation. Yes, some systems will lock out fresh air intake if temperatures are too low, or too high, but none of these systems will **make up run time lost** due to outside air lockout. Not so with the Intelligent Fresh Air Ventilator by Zonex Systems.

In order to meet both the ASHRAE 62.2 and Energy Star fresh air requirements, the IFAV controller will monitor outside air temperature and track number of minutes locked out in order to assure minimum fresh air requirements have been met. Additionally, logic within the controller will **calculate lockout time stored against remaining time within 24 hour period** and override temperature lockout **assuring minimum fresh air requirements per ASHRAE 62.2 and Energy Star are met**. Other systems will lockout fresh air operations until outside air is acceptable, losing required fresh air during lock out period.

Second, many systems use a time clock to energize fresh air operations throughout the day, no concern as to the temperature of outside air. This places added pressure on HVAC system as hot/cold outdoor air will reduce system efficiency and often require contractors to install larger units in order to overcome hot/cold outdoor conditions. With the Zonex Systems IFAV, this challenge is addressed by using an outdoor air sensor to determine if outdoor air is suitable for ventilation, in the warmest/coldest part of the day, the IFAV will lockout fresh air, **making this time up** once the air temperature has returned to an acceptable range. If air temperature remains high/low, logic on the controller will force an override causing fresh air to enter the house, thus meeting fresh air requirements.

By monitoring outdoor air temperature and limiting fresh air intake which is too hot or too cold, a builder and contractor can **engineer smaller HVAC systems meeting the needs of the house and ASHRAE 62.2/Energy Star Demand**. System size reduction lessens systems cost and reduces energy demands for the home. This combination creates a greener and more efficient home for the homebuilder to sell.

Zonex offers a solution your customers can use. I have attached submittal data on the (IFAV) – Intelligent Fresh Air Ventilator along with installation and sizing instructions. A submittal on our lineup of Fresh Air Dampers both Round and Rectangular is also attached.

Let me know if you have questions or require additional information. We would appreciate you sharing this information with your customers actively involved in RNC activity and those delivering green solutions to their customers.