



Ermon Controls

The New eBalance Heat Pump System

The eBalance Heat pump system is designed for maximum comfort. This is achieved by using advanced control strategies to redistribute the air at the ventilation grill to where it is needed. This would be comparable to a full time maintenance staff adjusting the air at each ventilation grill for you as needed.

Compared to Standard Heat Pumps send a constant amount of air to each room and does not change when needed for heating and cooling demands. This simply does not work because the demand for each room is constantly changing. The sun, wind, appliances and occupancy cause temperature changes. Room temperature will vary 3 or more degrees from room to room because the amount of air does not change. This can cause 30% to 40 % energy waste.

Compared to Variable Air Volume Systems where the air is over cooled then reheated. The cooling will run all the time when it is not needed and then the boilers or electric heaters have to run just to compensate for the over cooling. This can cause 20% to 50 % energy waste.



**My office is comfortable how about yours.
I have eBalance Heat Pump☺**

**My office is cold and your office is hot?
I have a standard Heat Pump☹**

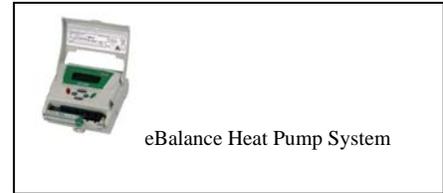
**The boiler is on and the air-conditioning too?
I have Variable Air Volume☹**

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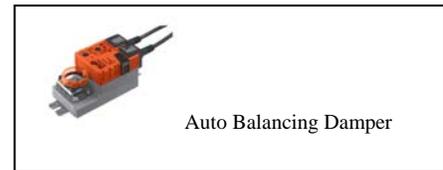
eBalance Heat Pump System

The eBalance heat pump system is a programmable controller, with 8 Universal Inputs, 8 UniPut channels, 8 UniPut + Relay channels, and an optional built-in keypad interface. After setup the eBalance heat pump system will constantly rebalance the airflow to the different rooms. This will optimize the heat pumps potential by putting the air where it is needed.



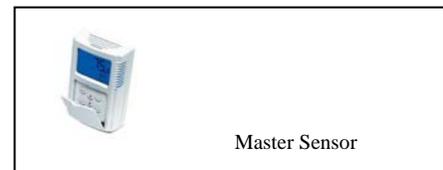
Auto Balancing Dampers

Auto balancing damper will modulate from 0% to 100% based on control strategies to maintain the highest degree of comfort with maximum energy savings.



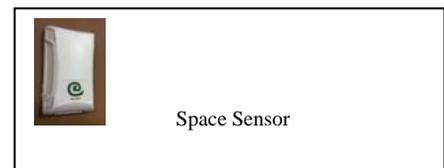
Master Sensor

The master sensor will allow you to adjust set point and set to temporary override



Space Sensor

The space sensor measures temperature in each room and sends this information back to be processed by the eBalance heat pump controller.



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