

How does the iAIRE Patented Economizer Technology Work

System requires:

1. Installation of ionization devices in the rooftop unit (RTU)
2. Installation of a VOC (volatile organic compound) sensor in the building space to monitor the cleanliness of the air
3. Installation of a CO₂ sensor in the space to monitor occupancy
4. Set economizer minimum outside air position to 0. The economizer controller does not bring in any outside air unless the sensors detect the building space needs additional air to be cleaned (VOC & CO₂ sensors determine amount of outside air if any is required)
5. The air inside the building space is constantly monitored to maintain a consistent level of indoor air quality.

System benefits:

1. The ionization devices help clean all the air recirculating in the building leading to a cleaner indoor air condition.
2. The need of outdoor air to maintain clean indoor air is minimized. (Usually changes the outside air requirement from roughly 15 CFM/person to 5 CFM/person).
3. The reduction leads to a large on-going utility savings.
4. The size of the RTU can also be reduced.

