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 sensor determines amount of outside air if any is required)
5. The air inside the building space is constantly being monitored to maintain consistent level of indoor air quality.

System benefits:

1. The ionization devices helps clean all the air re-circulating in the building leading to a cleaning indoor air condition.
2. Because the air is being cleaned, the need to bring in large amounts of outdoor air to maintain clean indoor air is not required.
3. The reduction of outside air leads to a large on-going utility savings (you are usually changing the outside air from roughly 15 CFM/person to 5 CFM/person).
4. Because of the outside air reduction, the size of the RTU can also be reduced.