Bi-polar ion generators are a type of air purifier that use voltage to generate electrically charged particles with extra electrons. The negative ions break longer molecule chains into smaller, less harmful substances. The positive ions attach to shorter molecule chains and act in the same manner. These particles fall to the ground and become inert.

Ion generators should not be confused with air purifiers, that in the past, had a by-product of ozone production. The **iAIRE** ion generator does not produce ozone.

Additionally, the **iAIRE** ion generator, does not utilize tubes like other ion generators or UV light. This means that there is no continual and expensive change out of tubes for the product.

Advanced Control Technologies has taken the use of the ion generator one step further and developed several packaged ion air purification units, our register vent and ceiling diffuser:

**Register Vent**
- Fits in any standard 2x4 stud wall.
- Internal low dB fan and ion generator used to circulate and purify the air.

**Ceiling Diffuser**
- Fits in any 2x2 opening in a drop ceiling.
- Internal low dB fan and ion generator used to circulate and purify the air.

The register vent and ceiling diffuser operate independent of any HVAC system and are fully operational once power is run to the unit.

We also have a portable stand-alone air purifier that can quickly remove problem spots in a building and a cage purifier that can clip on to fans and blowers.

Some of the best applications for negative ion generators in commercial environments include:

- Hospitals
- Nursing Homes
- Schools
- Animal Feeding Plants
- Processing Plants
- Laboratories
- Veterinary Offices
- Health Clubs
- Doctor Offices
- Jails
- Casinos
- Museums
- Shopping Malls
- Zoos
- Churches
- Synagogues
- and many more...