



NEEDLEPOINT BIPOLAR IONIZATION

The proven technology offered in our **ULTIMATUM** Airborne Mitigation Systems ION units delivers clean indoor air that is safe and healthy, producing neither ozone nor other harmful by-products. All our ion units utilize **Needlepoint Bipolar Ionization (NPBI)** technology that is UL approved. Through NPBI, our products purify the air by eliminating airborne particulates, pathogens, and gases/odors.

3RD PARTY TESTING SUMMARY

| PATHOGEN | KILL RATE | TEST AGENCY |
|-------------------------|-----------|---------------------------|
| SARS-CoV-2/ COVID-19 | 99.4% | INNOVATIVE BIOANALYSIS |
| NOROVIRUS | 93.5% | ATS LABS |
| MRSA | 96.24% | EMSL |
| STAPHYLOCOCCUS | 96.24% | EMSL |
| MOLD SPORES | 99.5% | GCA |
| E.COLI | 99.69% | EMSL |
| TUBERCULOSIS | 69.09% | EMSL |

USE IN AMBIENT AIR CLEANERS

ULTIMATUM Airborne Mitigation Systems are the 1st manufacturer to incorporate NPBI (ION) technology as an option for use in our ambient Airborne Mitigation Systems. These ionizers can be installed on the “clean air side” of any of our Series 1000 & 4000 units. The ionizer projects ions via the exhaust air to provide “active” air filtration outside of the unit. The ions produced travel within the air stream into the occupied spaces, cleaning the air everywhere the ions travel, even in spaces unseen.

HOW IT WORKS

The NPBI (ION) technology works to safely clean the air inside your building. The **patented** technology uses an electronic charge to create a plasma field filled with a high concentration of + and – ions that replicate those commonly found in nature. As these ions travel with the air stream they attach to particles, pathogens and gases/odors. As the ions attach to airborne **particles** (including fine, sub-micron particles) they are then attracted to each other, making the particulate more easily filterable and increasing capture efficiency. The ions kill **pathogens** by robbing them of life-sustaining hydrogen. The ions breakdown harmful **gases/odors** into harmless compounds like O₂, CO₂, N₂, and H₂O.

**THE ONLY IONIZER CERTIFIED BY UL 867 &
UL 2998 TO BE VIRTUALLY OZONE FREE!**

NOTABLE USERS OF NPBI (ION) TECHNOLOGY

- **Mayo Clinic**
- **Harvard University**
- **Boston Children’s Hospital**
- **The White House**
- **Houston Memorial Hospital**
- **Baylor UMC**
- **Clemson University**
- **Charlotte Airport**



**Ultimum = The Highest Ion Output
Volume Per Second In The Industry**

SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS



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