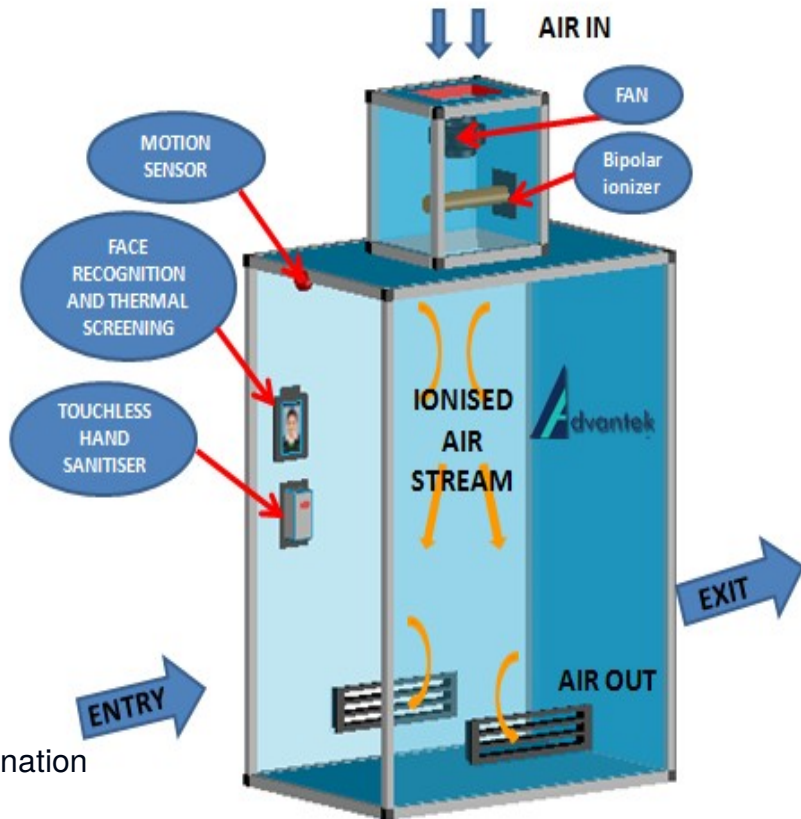


STERILIZE CHAMBER

Pandemic is not over yet ,but to run the economy people need to resume to work .
Under this circumstances we need effective ,flexible and reliable Disinfection flow and thermal Screening solutions
Advantek introduces “ **STERILIZE CHAMBER**” for Effective sterilization and identification of COVID- 19 symptoms by temperature screening

DESIGN FEATURES

- No physical contact to avoid contamination
- Automatic control for effectiveness
- High accuracy for temperature screening
- Proper flow of ionized air stream for complete disinfection without any side effects.



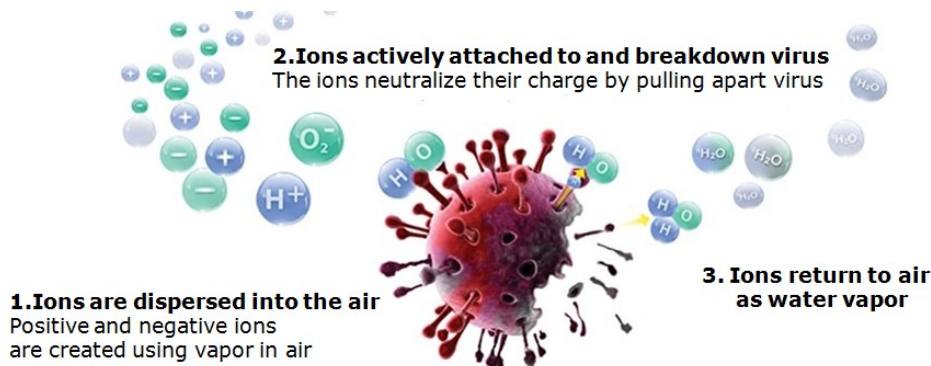
COMPARISION BETWEEN DIFFERENT METHODS OF DISINFECTION

| | Bipolar Ionizer | PCO | ozone Generator | Hepa Filters | carbon | UV Light | Chemical |
|----------------------|--------------------------|-------------------------|--------------------------|-------------------------|----------|----------|----------|
| Success rate | 99% | Marginal | 99% | 99.70% | Marginal | Marginal | Marginal |
| Particle size | Small <2.5 μm | Large > 5 μm | Small <2.5 μm | Small > 3 μm | N/A | N/A | N/A |
| Maintenance required | NO | YES | YES | YES | YES | YES | YES |
| Harmful Side effect | NO | YES | YES | NO | NO | YES | YES |

STERILIZE CHAMBER

WORKING PRINCIPAL

With the help of fan and bipolar ionizer , air stream of required ion density is pushed inside the chamber from top. The negative and positive ions are design to treat and allow energy imparted by ions to transform ordinary oxygen into reactive oxygen species (ROS), superoxide's ,peroxides and hydroxyl. These particle have property of clustering around micro particles like bacteria and virus. Chemical reaction occurs at cell membrane surface they transform into OH radicals, they are inactivated by serving the protein on cell membrane which cause opening of holes and destroying virus. Bipolar ionizer kills virus without damaging DNA in the interior cell and unlike other physical or chemical agents such as UV light , radioactivity and caustic chemicals, BPI is totally green and does not have any adverse affect .

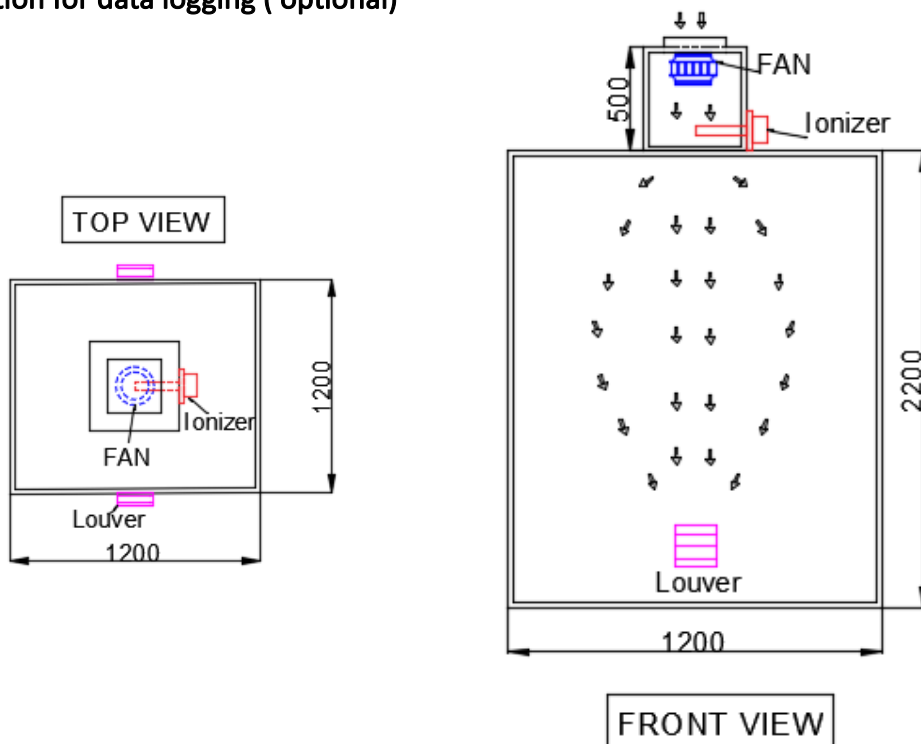


| TYPE | NAME | REDUCTION | TYPE | NAME | REDUCTION |
|---------------|---|-----------|-----------|-----------------------------|-----------|
| VIRUSES | Influenza H1N1 | 86.6% | VOCs | Total VOCs | 98.6% |
| | MS2 virus (surrogate for influenza and norovirus) | 99.99% | | Formaldehyde | 95.3% |
| BACTERIA | Escherichia Coli (E.Coli) | 99.43% | PARTICLES | Dust | 86% |
| | MRSA | 99.99% | | Cigarette Smoke Particulate | 95.1% |
| | Pseudomonas Aeruginose | 99.99% | | Polystyrene Latex Beads 2um | 99% |
| | Staph Epidemidis | 99.79% | ALLERGENS | Cat Allergen | 54.33% |
| MOLD & SPORES | Bacillus Subtilis | 86.5% | | Pollen Allergen | 49.53% |
| | Aspergillus Niger | 98.85% | | | |
| | Candida Albicans | 97.69% | | | |

STERILIZE CHAMBER

SPECIFICATION

- Casing –Double skin insulated 25 mm thick, Inner outer prepainted Gi /SS 304 / acrylic sheet
- Structure – Extruded Aluminium Profile
- Method of disinfection – Bipolar Ionizer
- Motion sensor for automatics activation of system
- Infrared sensor for thermal screening
- Face recognition for data logging (optional)



APPLICATION

- HOSPITAL
- CORPORATE OFFICES
- MANUFACTURING FACILITIES
- SCHOOL ,COLLEGE
- PHARMACUTICALS
- HOTELS
- MALLS , RETAILS STORES
- PUBLIC TRANSPORT STATIONS