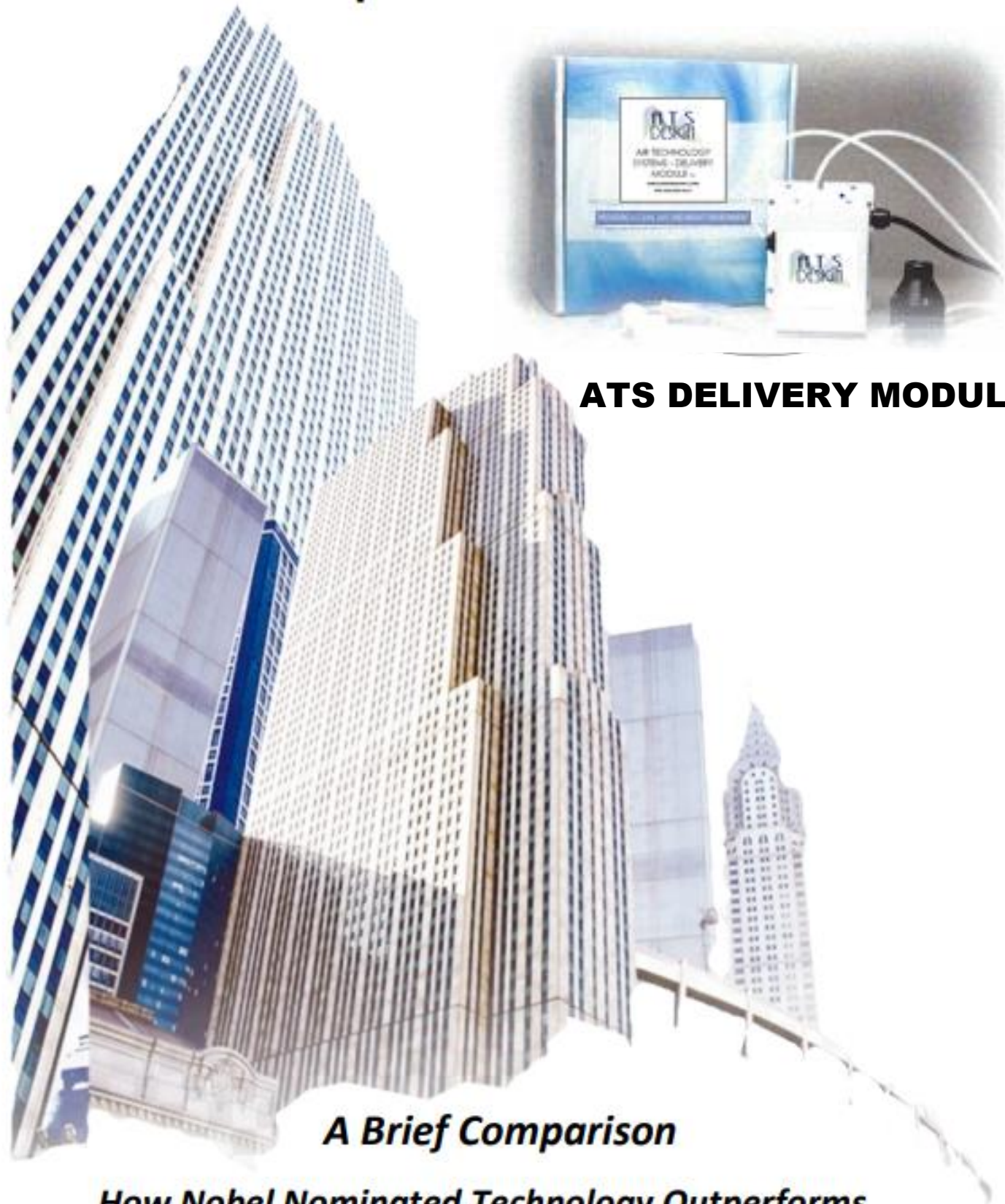


# **Nobel Prize Pathogen Protection for Occupied Environments**



**ATS DELIVERY MODULE**



## ***A Brief Comparison***

***How Nobel Nominated Technology Outperforms  
Current Pathogen Protection Alternatives***



**HEPA Filtration:** Theoretically remove at least 99.97% of dust, pollen, mold, bacteria, and any airborne particles with a size of 0.3 microns. Trap but do not kill pathogens. COVID-19(SARS CoV2) are approximately 0.1 Micron in size and are not trapped. A true HEPA filter cannot be simply added to an existing HVAC system to offer 100% effective use.



**UV (Ultraviolet Light):** Approximately 1 meter away from a UV light, creates a drop off in efficacy as exponential. Buildup of "bio-burden" (particulates) on the bulb will decrease efficacy. Bulbs need to be changed regularly to make up for loss of efficacy and efficiency. "Bypass Air" is essentially air that has not encountered the bulb output. UV light does not kill everything on the first pass over; there will always be pathogens that do not come in contact and thereby remain viable.



**Bipolar Optimization:** Plasmas are created by the ionization of atoms and molecules which require a very high current source. Ions or plasma particles are not usually stable. Using the air in a ductwork which has a significant amount of Oxygen, Nitrogen, and Carbon Dioxide could generate a significant amount of Ozone (O3) which can be toxic to humans. ***Bipolar Ionization can take as long as 472 minutes to "possibly" do the same thing as The S4 System® technology and therefore Bipolar Ionization is not a workable device to eliminate Covid19 viruses in a room.***



**Portable HEPA, UV, Foggers, Ionizers:** Portable devices are limited in area coverage. Multiple units are costly. Requires excessive labor to maintain. If you have a building with a central HVAC system and multiple rooms, sections, you will require a single unit per individual space. Systems cannot typically be installed and operational 24/7/365. Fogging units, in particular, utilize chemical-based solutions unacceptable during human occupancy. units are visible in the conditioned space and prone to accidental damage and constant care, service and maintenance is required.



**Building Indoor Air Flushing:** Experimental technique promoted by ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers). This approach is not feasible since replacement air intake will only increase the amount of humidity in the building and raise the temperature of the building during the summer months. The higher frequency of operation will require additional amount of electricity. It will also provide a situation where any viable fungi achieve maximum ability to replicate.



**The ATS DELIVERY MODULE®:** *The only current technology whose developer has been nominated for a Nobel Prize.* The ATS Delivery Module® functions automatically, constantly, and safely with innovative technology that is "Organic-based, Non-GMO, Tested, Proven and Approved." It provides a steady stream pathogen control function with self-regulatory product infusion to overcome sudden elevated pathogen intrusion. The ATS DELIVERY MODULE® has been utilized successfully in a wide range of building applications. ***A single ATS Delivery Module® Unit can cover in excess of 50,000 Sq.Ft coverage.*** USA conceptualized, engineered, developed and produced for residential, commercial, industrial, institutional, marine, aeronautical and railway application.

A.T.S Design has Offices and Distribution Centers in Florida and Texas and serves as a Prime Distributor for The ATS Delivery Module and Path Away Solution. ALL Manufactured Within The USA.

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