Tornex AirGuardian Air Curtains



Tornex proudly presents our latest state-of-the-art energy-saving air curtain products, equipped with Sharp's patented* Plasmacluster lons™ Health Technology as a standard feature!

*(Patent No. 3680121)













Class Rooms

Breakthrough Technology!!

Japan Institute of Invention and Innovation, 2008 Awarded the "Invention Prize" for "Air Purification using Plasmacluster Ions" at the National



Commendation for Invention Prizewinners

By convention, air curtains are used as an equipment to conserve energy, as they can effectively create a barrier to avoid the cooled air in the room to escape out to the atmosphere. Meanwhile, they can prevent undesirable foreign objects, such as dusts, fly ashes. pollens, insects, bad odors, etc. to enter the buildings. The airborne substances such as fungi, virus and mite allergens are still floating in the environments around us. Sharp's proprietary Plasmacluster Ion technology solves the problem by deactivating airborne fungi, etc.

On the other hand, the airborne substances such as fungi, bacteria, viruses and mite allergens are constantly floating in the environments around us. Sharp's patented Plasmacluster Ion™ Generator is a proven technology to suppress and deactivate these organisms, thereby purifying the air.

Tornex undertook the challenge of combining these two proven technologies smartly together and successfully launched the new generation of air curtains - Tornex Air-**Guardian Air Curtains!**



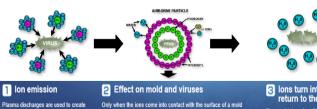
Vertical Type



Horizontal Type



Plasmacluster[™]



Plasma discharges are used to create and release into the air the same positive and negative ions that occur in

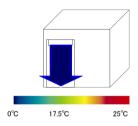
spore, bacteria or virus do they transform into OH radicals with extremely powerful oxidation properties. The OH radicals instantly steal hydrogen (H) from the proteins on the bacteria surface, breaking down the proteins.

3 lons turn into water and return to the air

The combining of an OH radical with hydrogen (H) creates water (H2O), which

Demonstration – Heat Blocking Effect

A room of size: 2.7m x 2.7m x 2.7m was set up. Cool the room temperature to 20°C. When the outdoor temperature becomes 30°C, open the door (size: 1.9m x 1.2m). At 4 minutes after the door opened, the effect was evaluated by using thermograph as shown below:

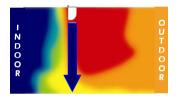


Without Tornex Air Curtain



The indoor cool air flew out of the room, causing substantial energy loss. Meanwhile, outdoor hot air flew into the room, warming it up.

With Tornex Air Curtain

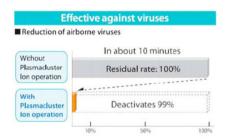


The room temperature was stable around 20°C and the outdoor air could not blow in.

Effective against:

Bacteria, Viruses & Influenza (Including H5N1, H1N1) , Mold , Germs, Mold , Spores, Pollen, Dust, Pet Odors

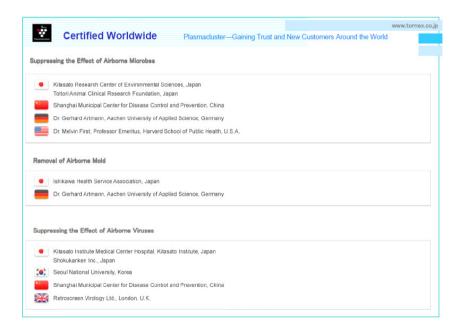
- Suppresses the effects of airbone viruses. (proven through experiments conducted in a 1m3 box).
- Breaks down and removes allergens such as dust mite feces and dead dust mites.
- Breaks down and removes airborne mold and suppresses the proliferation of adhering mold.
- Removes odors that adhered to curtains, sofas, and other objects.



Testing Body: Retroscreen Virology Ltd., UK
Test Method: Viruses were suspended in a 1m3 box and
the rate of virus removal from the air was measured.
Research Number: PNT-PCS-001

Benefits of installing Tornex AirGuardian Air Curtains:

- + Reputable and Innovative Japanese Brand incorporated with Trustworthy Partner
- + Energy Saving and Heat Blockage Effect
- + Air Purifying Technology by SHARP's Patented Plasmacluster Ion™
- + Simple and Easy Handling and Installation



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