Tornex AirGuardian Air Curtains

Tornex proudly presents our latest state-of-the-art ensaving air curtain products, ergyequipped with Sharp's patented* Plasmacluster lons™ Health Technology as a standard feature! (Patent No.









Waiting Rooms

Patient Rooms

Class Rooms

Breakthrough Technology!!

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!

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



Commendation for Invention Prizewinners



Vertical Type



Horizontal Type



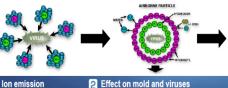
Plasmacluster[™]

Plasma discharges are used to create

positive and negative ions that occur in

and release into the air the same

nature



Effect on mold and viruses

Only when the ions come into contact with the surface of a mold 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.

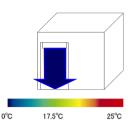


3 lons turn into water and return to the air The combining of an OH radical with

hydrogen (H) creates water (H2O), which returns to the air

Demonstration – Heat Blocking Effect

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

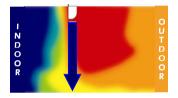


Without Tornex Air Curtain



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)

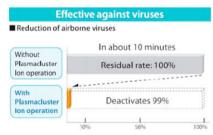
Mold , Germs, Mold , Spores, Pollen, Dust, Pet Odors

 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

		www.tornex.co,j
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Suppres	aing the Effect of Airborne Microbes	
•	Kitasato Research Center of Environmental Sciences, Japan Tottori Animal Clinical Research Foundation, Japan	
*2	Shanghai Municipal Center for Disease Control and Prevention, China	
	Dr. Gerhard Artmann, Aachen University of Applied Science, Germany	
	Dr. Melvin First, Professor Emeritus, Harvard School of Public Health, U.S.A.	
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•	Ishikawa Health Service Association, Japan Dr. Gerhard Artmann, Aachen University of Applied Science, Germany	
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