

## Germicidal Air Cleaner System PCUV 2520

### How does it works ?

#### Superior Filtration Technology

The reasons why Electro Breeze Air Cleaners work so much better compared to other filters is because they take advantage of three scientific filtration principles combined in one product to filter air and trap unwanted and harmful particulate. The three scientific principles at work in all Electro Breeze Air Cleaners are: Impingement, Polarization and Agglomeration. Virtually every other filtration media type filters use only impingement. The combination and benefits of combining these three principles is explained below:

#### 1) Impingement

Impingement is the process that all media filters use to trap dust. Simply stated, in order to trap particles the impingement process relies on media being placed in the path of oncoming airborne particulate and striking the particulate as it flows by in an effort to stop it. The degree of effectiveness of this method depends on the amount of material contained in the media filter placed in the path of these oncoming airborne particulate.

#### 2) Polarization

The second major scientific principle used in Engineering Electro Breeze is polarization. It is well known that an electrical charge will have an influence on any substance that comes in proximity to the charge. Electro Breeze polarization takes advantage of this principle to enhanced the effectiveness of the filtration media

#### 3) Agglomeration

Airborne particles as explained above enter the Electro Breeze air cleaner and are polarized by the induced static charge and take on characteristics of millions of tiny magnets. The Electro Breeze Air Cleaner is 97.8% efficient at removing particles at 0.3 micron. Perhaps the most exciting development is the coupling of the UVC Lamp with the Electro Breeze Air Cleaner. We Trap, Hold, and Kill bacteria, viruses. This new technology is proving to be more effective than traditional passive filters on the market. Electro Breeze Air Cleaner has the ability to remove 30% to 40% of VOC's also cooking odours, animal odours, and many more.

#### 4) The Ultra Violet lamp (Mother Nature's Method)

Ultraviolet Germicidal Lamp is a trusted air purifying method used in hospitals nationwide, and ultraviolet energy is the sun's rays that Mother Nature uses outdoors to purify the air. Ultraviolet lamps enable the Electro Breeze UVC Lamp System to produce the natural germicidal rays that kill germs and control allergens

The kill zone of the PCUV 2520 Germicidal Lamp is within 2 inches of the lamp. A kill rate of 99% is achieved at the distance. The effective zone of the PCUV 2520 Germicidal Lamp is up to 24 inches from the lamp. Within that distance, a micro-organism may not be killed, but single-pass exposure to the ultraviolet energy (within 24 inches of the lamp), will disturb its DNA (reproductive code) and stop it from reproducing and infecting us with disease or illness.

