# **RENEWO2**

## General Product Knowledge Training Deck Part One

5/21



Our expectation of this training is not that you become a specialist in infectious disease control or the technical dynamics of air purification.

This training deck has been designed to give you the tools you need to converse with a myriad of potential customers regarding our product, their needs and the solution that best fits each scenario.



A simple understanding of how our systems operate will go a long way. Think of the air you breathe every day. While you cannot see them, the air is full of particulates. Some may be harmful and some may not. These particles are all different sizes.

In order to arrest these particles, you have to be prepared to capture them no matter what the size. This is why we created a 4-stage filter process.





Air purifiers essentially work by sanitizing the air which could include pollutants, allergens and toxins. There is a lot to learn about air purification, viruses, bacteria, allergens and more. We will start with a **glossary of terms** that may help you as you begin.



**Microm:** The micrometre or micrometer, also commonly known as a micron, is an SI derived unit of length equalling 1×10<sup>-6</sup> metre; that is, one millionth of a metre.

**Merv Scale:** Minimum Efficiency Reporting Value, commonly known as MERV, is a measurement scale designed in 1987 by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) to report the effectiveness of <u>air filters</u> in more detail than other ratings.



**Virus:** A virus is a submicroscopic infectious agent that replicates only inside the living cells of an organism. Viruses infect all types of life forms, from animals and plants to microorganisms, including bacteria and archaea.

**Bacteria:** Bacteria are a type of biological cell. They constitute a large domain of prokaryotic microorganisms. Typically a few micrometres in length, bacteria have a number of shapes, ranging from spheres to rods and spirals.



**Allergen:** A substance that causes an allergic reaction.

**CADR:** Clean Air Delivery Rate. The clean air delivery rate is a figure of merit that is the cubic feet per minute (CFM) of air that has had all the particles of a given size distribution removed.

**CFM:** Cubic feet per minute



**Decibel:** A unit used to measure the intensity of a sound or the power level of an electrical signal by comparing it with a given level on a logarithmic scale.

**Virulence:** Virulence is a pathogen's or microorganism's ability to cause damage to a host. In most contexts, especially in animal systems, virulence refers to the degree of damage caused by a microbe to its host.



**Consumable:** Consumables are goods that are intended to be consumed. People have, for example, always consumed food and water. Consumables are in contrast to durable goods.

**Disease:** A disorder of structure or function in a human, animal, or plant, especially one that produces specific signs or symptoms or that affects a specific location and is not simply a direct result of physical injury.



**μm** : Also known as a micrometer. The micrometre or micrometer, also commonly known as a micron, is an SI derived unit of length equalling 1×10<sup>-6</sup> metre; that is, one millionth of a metre. The next smallest common SI unit is the nanometre, equivalent to one one-thousandth of a micrometre, or one billionth of a metre.



**µm** : Also known as a micrometer. The micrometre or micrometer, also commonly known as a micron, is an SI derived unit of length equalling 1×10<sup>-6</sup> metre; that is, one millionth of a metre.

#### How big is a µm? pig bristle wire strenath pin 0.1 mm of a paper clip 0.6 mm 0.8 mm cigarette paper newspaper 0.03 mm 0.08 mm $1 \,\mu m = 0.001 \,mm$ human hair 0.05 mm micrometer (µm) cobweb → 1/1000 millimeter 0.006 mm



#### The Merv Scale

The way the public measures air purification is all over the board. Many will refer to the "Merv Scale".

As air moves through a building's HVAC system, air filters trap and collect large and small particles such as dust, allergens and microorganisms. According to the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), this filtration helps provide healthier indoor air quality. A filter's MERV number indicates how it's rated to remove these particles. But what is MERV rating, exactly?



#### **The Merv Scale**

An air filter's minimum efficiency reporting value (MERV) rating measures how effectively the filter stops dust and other contaminants from passing through the filter and into the air stream. Filters with higher MERV ratings trap small particles more effectively than filters with lower MERV ratings. In general, filters with a rating of MERV 16 or below are considered to be HVAC-system-grade filters for residential, commercial and general hospital use.



#### **The Merv Scale**

MERV 17 through MERV 20 filters are typically used in surgical operating rooms, clean rooms and other contexts that require absolute cleanliness.

Because filtering at a rating of MERV 16 or below are considered to be HVAC-system-grade filters for residential, commercial and general hospital use, our Compact and Personal systems use filters with a Merv rating of 12 while our Wall and Room systems utilize filters with a Merv rating of 13 thus filtering down to 0.3–1.0 micron particle size.



#### Why we do not refer to the Merv scale

Because we have multiple filtering stages in our systems, we do not refer to the Merv scale as our systems surpass the ability of just the one filter, however to the right is a list of just some of the items captured by a Merv Scale 13 filter for future reference.



Pollen

•

- Dust mites
- Sanding dust •
- Textile/carpet fibers •
- Mold/spores
- Dust lint •
- Cement dust
- Legionella ٠
- Lead dust •
- Humidifier dust •
- Coal dust •
- Nebulizer dust •
- Bacteria •
- Tobacco smoke •
- Auto fumes •
- Sneeze nuclei •
- Insecticide dust •
- Copier toner •
- Pet dander •
- Face powder •



Shown: dust mite

To better understand how the 4-stage process works, we must first learn what the challenges are. We will start with the science of a simple sneeze.





In this photo, we can see the particles ejected by this sneeze. According to recent studies, particulates from a sneeze can travel as far as 4 meters (12 feet)!

You will notice that in the photo, you can see the effect of gravity on the larger particulates as the smaller particulates remain airborne much longer.





When we apply a special lens, we can see the particulates much easier as well as the effect of gravity on those particulates.

Our 4-stage filtering process allows our systems to overcome this massive range in sizes as well as any virus or bacteria attached to these particulates.









**Pre-Filter** 

Our Pre-Filter removes the largest particles from the air such as pollen and dust. People with indoor/dust allergies often suffer the most inside their own home. Oddly enough, their symptoms often worsen during or immediately after vacuuming, sweeping and dusting. The process of cleaning can stir up dust particles, making them easier to inhale.



HEPA

HEPA (high-efficiency particulate air) filter, also known as highefficiency particulate absorbing filter and high-efficiency particulate arrestance filter, is an efficiency standard of air filter.

Filters meeting the HEPA standard must satisfy certain levels of efficiency. Common standards require that a HEPA air filter must remove—from the air that passes through—at least 99.95% (European Standard) or 99.97% (ASME, U.S. DOE) of particles whose diameter is equal to 0.3  $\mu$ m; with the filtration efficiency increasing for particle diameters both less than and greater than 0.3  $\mu$ m



Activated Charcoal

Our activated charcoal filter is designed to remove gases. These filters are designed to filter gases through a bed of activated carbon (also called activated charcoal) and are usually used to combat volatile organic compounds (VOCs). Because carbon by itself is a powerful adsorbing agent, it can remove odors and gases from the air by trapping the gas molecules.

We will learn about VOC's next.



## What are VOCs?

Activated Charcoal

Volatile organic compounds are compounds that have a high vapor pressure and low water solubility. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, pharmaceuticals, and refrigerants. VOCs typically are industrial solvents or by-products produced by chlorination in water treatment, such as chloroform.



## What are VOCs?

Activated Charcoal

VOCs are often components of petroleum fuels, hydraulic fluids and paint thinners. VOCs are common ground-water contaminants. VOCs are emitted as gases from certain solids or liquids. VOCs include a variety of chemicals, some of which may have short- and long-term adverse health effects. Concentrations of many VOCs are consistently higher indoors (up to ten times higher) than outdoors.



UV-C

UVC radiation is a known disinfectant for air, water, and nonporous surfaces. UVC radiation has effectively been used for decades to reduce the spread of bacteria, such as tuberculosis. For this reason, UVC lamps are often called "germicidal" lamps.



UV-C

Since the beginning of COVID. Many companies are selling UVC lamps, however, they are of such a low dose the lights must be applied for long periods of time to even potentially provide effective inactivation of a bacteria or virus. Some UVC lamps generate ozone. Ozone inhalation can be irritating to the airway.



The UV range of the electromagnetic radiation spectrum goes from 10 nm to 400 nm. Depending on the wavelength and time of exposure, UV radiation may cause harm to the eyes and skin. The UV spectrum is separated into four parts:

- •UVA (315 nm to 400 nm)
- •UVB (280 nm to 315 nm)
- •<u>UVC</u> (200 nm to 280 nm)
- •UV Vacuum (100 nm to 200 nm)

Decreasing wavelengths correspond with higher frequency radiation and a higher amount of energy per photon.



The danger of UVC light to humans has been eliminated by our multiple layers of safety features. The UVC light in the RenewO2 systems is 100% contained and the machine draws the viruses and bacteria to the light *inside* of the machine.





#### The danger of Ozone

There are many Ozone generators and also UV-C lights at 185nm which generate a fair amount of Ozone. Ozone also works against viruses (and bacteria, dust mites, mold). Ozone (O3) in this concentration generated is not safe for the lungs. Relatively low amounts can cause chest pain, coughing, shortness of breath and throat irritation. Ozone may also worsen chronic respiratory diseases such as asthma and compromise the ability of the body to fight respiratory infections.



## So, to review...





## The Systems

Hello people who are about to waste a few minutes of their life they you'll never get back. Today I'm going to tell you some stuff, like it or not. Inside of my mind, I have a platypus named Gioff. I got him at Petsmart on sale. One night while I was sleeping, Gioff climbed into my head and started randomly singing STYX songs. I tried to stick my hand inside of my head and retrieve the damn platypus. I didn't fully succeed.



The RenewO<sub>2</sub> PERSONAL PURIFIER. This device provides 3 stage filtration rather than the 4 stage process.

The clip and/or lanyard provides freedom of motion for the wearer and the product is lightweight making it great for travelers, responders or just people on the go.





- Most compact personal air purifier
  Protection without having to wear mask
- Localized protection nearest threat

RenewO<sub>2</sub> PERSONAL PURIFIER utilizes a 3-stage filtration design:

Pre-filter
 HEPA filter
 Activated Charcoal Filter



Size Weight Airflow at max CFM Intensity Settings Sound/Decibels Coverage/Protection Area **Optimal Protection Radius Power Source** Cord Length Battery Life

5 x 3.3 x 1.5 in (127 x 84 x 38 mm) 8.6 oz (244 g) 0.5 gal / sec 2 to 4 cfm 3 (low, medium, high)

Personal: 12-16 inches (305-406 mm) Personal: 12-16 inches (305-406 mm) 4x AA batteries N/A 2-5 hours









#### **Personal Air Purifier Accessories**



Mask and hose assembly




The RenewO<sub>2</sub> COMPACT **MOUNTED PURIFIER is perfect** for office cubicles, service counters, or anywhere you want to breathe easy but don't want to sacrifice floor or counter space. The user can feel safe, knowing that the 4 stage filtration design is quiet while they work.





Our most compact office (table)
option for small areas
Protection without having to weat

•Protection without having to wear mask

Localized protection nearest threat

The RenewO<sub>2</sub> COMPACT MOUNTED PURIFIER utilizes a 4-stage filtration design:

1.Pre-filter
2.HEPA Filter
3.Activated Charcoal Filter
4.UV-C (Germicidal UV-C bulb, 254 nm)



Size Weight Airflow at max CADR (clean air delivery rate) Intensity Settings Sound/Decibels Coverage/Protection Area **Power Consumption Power Source** Cord Length Battery Life

6.3 x 3.7 x 6.2 in (160 x 94 x 157 mm) 2.9 lbs (1.3 kg) 4 gal / sec 5-40 CFM (cubic feet per minute) 2 (low, high) 40 to 48 dB approximately 80 ft<sup>2</sup> (7.4 m<sup>2</sup>) 24W 100 to 240 VAC 6 ft (1.8 m) N/A









The RenewO<sub>2</sub> WALL AIR PURIFIER - 4 stage filtration design. We love that this wall-mounted design doesn't mean sacrificing your room design or needs. It can be hidden behind your favorite wall art leaving your space looking the way you want it!





- •Our most powerful air sanitizer that takes up no floor space
- •Best for rooms up to 400 SF
- •Can be mounted behind wall art
- •Quietly operates 24 hours a day, 7 days a week

Localized protection nearest threat

The RenewO<sub>2</sub> WALL AIR PURIFIER utilizes a 4-stage filtration design:

Pre-filter
 HEPA Filter
 Activated Charcoal Filter
 UV-C (Germicidal UV-C bulb, 254nm)



Size Weight Airflow at max CADR (clean air delivery rate) **Intensity Settings** Sound/Decibels Coverage/Protection Area **Optimal Protection Radius Power Source** Cord Length Battery Life

18.0 x 23.5 x 4.3 in (457 x 610 x 114 mm) 12.7 lbs (5.8 kg) 25 gal / sec 50 to 200 CFM (cubic ft per min) Turbo mode is 280 CFM 4 (low, medium, high, turbo) 41 to 56 dB Turbo mode is 69 dB 200-400 ft<sup>2</sup> (19-37 m<sup>2</sup>) 12 ft (3.7 m) 100 to 240 VAC 10 ft (3 m) N/A



# Installing The Wall Air Purifier

It is important to remember that the wall unit must be installed correctly for maximizing its ability. The bottom of the unit should be inline with the majority of the occupants' breathing line. See the diagram on the next slide.





#### **Installing The Wall Air Purifier**









The RenewO<sub>2</sub> ROOM AIR PURIFIER - 4 stage filtration design. This unit offers a powerful CADR (clean air delivery rate) gives you up to 600 cubic feet per minute and can handle even the largest of spaces.





- •Our most powerful, portable room air sanitizer
- •Protection without having to wear mask
- Localized protection nearest threat

The RenewO<sub>2</sub> ROOM AIR PURIFIER utilizes a 4-stage filtration design:

Pre-Filter
 HEPA
 Activated Charcoal Filter
 UV-C (Germicidal UV-C bulb, 254nm)



Size Weight Airflow at max CADR (clean air delivery rate) **Intensity Settings** Sound/Decibels Coverage/Protection Area **Optimal Protection Radius Power Source** Cord Length Battery Life

22 x 22 x 28 in (558 x 558 x 711 mm) 46 lbs (21 kg) 64 gal / sec 100 to 400 CFM (cubic ft per min) Turbo mode is 600 CFM 4 (low, medium, high, turbo) 41 to 56 dB Turbo mode is 61 dB 1000 ft<sup>2</sup> (93 m<sup>2</sup>) 16 ft (4.9 m) 100 to 240 VAC 10 ft (3 m) N/A









## **Filters**

- The HEPA and Activated Charcoal (carbon) filters in Renew)2 units are called "consumables". While a new unit comes with the necessary filters, the filters WILL need to be changed regularly much like printer ink for a printer.
- Like with a printer where the amount of ink you go through is directly related to how many pages you print, how often RenewO2 filters need to be changed will be directly related to the load they are expected to carry.



#### **Filters**

As we pointed out, RenewO2 system filters should be changed on a regular basis. It is recommended that the filters be changed every 6-9 months, however, in areas of high traffic, heavily congested areas or areas that are extremely dusty or dirty, the filters may have to be changed more often. Placing a unit near an exterior door or window may cause the filter to need replacing more often. In the event of a disease outbreak or in an area that has a high concentration of infected occupants, the filter should be changed more often as well.



#### **Filters**

This picture shows a new filter (right) and a filter that was in use for only 60 days in a highly contaminated environment with heavy foot traffic (left).





# Know your enemy

In this section of the training, we will learn about viruses and bacteria, how illness is spread and the importance of infectious

disease control.





# Types of disease

The Centers for Disease Control classifies infectious disease into two types:

- Airborne
- Blood-borne.

Examples of blood-borne include hep B, hep C and HIV. Examples of airborne include COVID-19 and tuberculosis.



### Two ways disease is transmitted

**Direct Contact** 

Spread by the direct contact with infected blood or bodily fluids from one person to another.

**Indirect Contact** 

Spread from one person to an object, and then to another person (doorknob, tissue, etc)



#### **Risk for transmission**



Because each organism is different, the risk may be high or low. This will depend on the type of organism, the dose (amount of exposure) one receives of the organism, the strength of the organism (this is called virulence) and the health of the person exposed.



#### COVID-19



Due to the recent pandemic, we receive many questions about COVID. It is best to rely on the latest releases of information from the Center for Disease Control (CDC) for the latest updates.

To date, COVID-19 and the new strains of COVID are all still transmissible by air.



#### COVID-19

COVID-19 spreads mainly from person to person, especially between people who have been in close contact, or within 6 feet, of each other. An infected person with or without symptoms may spread the virus to others. When an infected person talks, coughs, or sneezes, droplets from their mouth can spread through the air and land in the mouths or noses of nearby people or possibly be inhaled into the lungs.





#### COVID-19

According to the Centers for Disease Control and Prevention (CDC), COVID-19 can sometimes be spread by smaller droplets and particles that can linger in the air for minutes to hours. This kind of spread is called airborne transmission. COVID-19 can also spread by a person touching a surface or object that has virus on it and then touching their own mouth, nose, or possibly their eyes.



### The life-span of viruses



While each virus has a different lifespan, it is helpful to remember when applying an air purifier system that almost all viruses tend to live longer in areas or atmospheres where the temperatures, humidity and light are LOWER.



# **Keep cleaning**



All viruses have the potential to live on hard surfaces, such as metal and plastic, longer than on fabrics and other soft surfaces. Using an air purification system does not eliminate the need to continually clean surfaces.



## Allergens

An allergen is a type of antigen that produces an abnormally vigorous immune response in which the immune system fights off a perceived threat that would otherwise be harmless to the body. Such reactions are called allergies.







- •Percentage of adults who have allergies in the U.S.: 30%
- •Percentage of children who have allergies in the U.S.: 40%.
- More than 50 million Americans suffer from allergies each year.
- •Rank of allergies among other leading chronic diseases in the U.S.: 6th.



# **Mold Particles**

Like allergens, indoor mold particles can become especially dangerous for people with asthma and other lung conditions such as COPD.





### N-95 Masks

N-95 masks are the particulate respirators. While heavily relied upon during the COVID pandemic, they are the absolute MINIMUM level of protection against airborne infectious agents.





### Why wear a mask?



When a COVID-19 infected person speaks, coughs or sneezes, droplets from their mouth and nose can spread through the air and land in the mouths and noses of nearby people and then be inhaled into the lungs.



#### Should I wear a mask?



**RenewO2 still recommends** that you wear a mask when you cannot be at least 6 feet from another person. It is important to stay current on your local guidelines, protocols and requirements as they are different in every state and city.



# Warranty

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# Applications for the systems

By now you have already started to think about the myriad of potential customers that could utilize the RenewO2 technologies. We hope you are as excited as we are about the endless possibilities and the impact these units could have on public health. In the next few slides we will list some possible markets as well as applications for the RenewO2 units, but please note that this is not a complete list but rather just a starting point.



### Users

Personal vehicles Buses Planes Ships Airports Colleges & universities Casinos Historic Buildings

**Correctional facilities** Group homes Museums Stores Restaurants Cafes Convention centers Meeting halls **Ambulances** Fire trucks Police cars Taxis Hotels

Schools Fire departments Money counting rooms Laboratories Offices Churches Clinics Homes Apartments Libraries Command centers Shelters Manufacturing facilities



## Industries

Storage Construction Remodeling Finance and banking Cyber/computer/data Health care Food service Agriculture Manufacturing Emergency response Disaster response Chemical manufacturing Pharmaceutical

Corrections **Residential care Historical institutions** Professional and business Bus transportation **Rail transportation Cruise lines Real estate** Tourism Law enforcement Hospital and health care


## You are now ready to take the quiz.

## Please feel free to refer to this training as you take your quiz.

Use the provided answer sheet.







- 1. The Center for Disease Control (CDC) classifies infectious disease by two types. What are they?
  - a. Contact
  - b. Airborne
  - c. Bloodborne
  - d. A & C
  - e. B & C
- 2. Disease is spread two ways. Direct and Indirect contact.

True

False

- 3. When a COVID-19 infected person talks, coughs, or sneezes, droplets from their mouth can spread through the air and land in the mouths or noses of nearby people or possibly be inhaled into the lungs.
  - a. True
  - b. False





- 4. A sneeze can travel up to
  - a. 50cm
  - b. 2 m
  - c. 4 m
  - d. All of the above
- 5. N-95 disposable particulate respirators are the minimum level of protection against airborne infectious agents.
  - a. True
  - b. False
- Viruses tend to also live longer in areas with \_\_\_\_\_\_ temperatures, \_\_\_\_\_\_ humidity, and \_\_\_\_\_\_ sunlight.
  - a. Higher
  - b. Lower





7. Air purifiers essentially work by sanitizing the air, which may include pollutants, allergens, and toxins.

a. True

- b. False
- 8. A high-efficiency particulate air (HEPA) filter is best known to trap \_\_\_\_\_\_.
  - a. Smoke
  - b. Dust
  - c. Airborne Allergens
- 9. Like allergens, indoor mold particles can become especially dangerous for people with \_\_\_\_\_\_.
  - a. COVID-19
  - b. HIV
  - c. Asthma and other lung conditions.
  - d. Thrombosis



QUZ

- a. 75.6%
- b. 89.7%
- c. 99.8%
- d. 100%
- 11. Our Pre-Filter removes large particles from the air such as pollen and dust.
  - a. True
  - b. False
- 12. Our HEPA filters work to trap and contain \_\_\_\_\_\_ such as allergens and bacteria.
  - a. Microns
  - b. Dust bunnies
  - c. Protons
  - d. Nanometer



13. The RenewO2 units utilize activated \_\_\_\_\_\_ to absorb gases and odors.

- a. Microms
- b. Electrons
- c. Charcoal
- d. Fibers
- 14. Our use of UV light is a safe solution because the light is
  - a. Contained within the unit
  - b. Dispersed at a low rate
  - c. Strobes at a rate of 50mhz
  - d. All of the above







- 15. The UV-C light in a RenewO2 system is for \_\_\_\_\_\_ treatment of the air.
  - a. Disinfecting
  - b. Germicidal

## c. Horizontal

- d. Heat
- 16. The Personal Air Purifier has a protection radius of
  - a. 48"
  - b. 96"
  - c. 6"
  - d. 16"





17. The RenewO2 Compact has a protection radius of

a. 48"

b. 96"

c. 6"

d. 16"

- 18. The RenewO2 UV Wall Mount Purifier has a protection radius of
  - a. 48"
  - b. 96"
  - c. 144"
  - d. 200"





- 19. The RenewO2 UV Floor Purifier has a protection radius of
  - a. 8 ft
  - b. 12 ft
  - c. 16 ft
  - d. 24 ft
- 20. The RenewO2 should ideally be mounted 48" off the floor because
  - a. It is easier to mount menus on the face of the machine
  - b. It will not operate if hung too close to the ceiling
  - c. It will be mounted at the height of the seated customers breathing area
  - d. It is easier for the staff to turn and off



21. An air purifier likely will not remove or neutralize all aggravating particles. This is due to the fact that many particles can sit on soft surfaces, such as furniture, bedding, and carpeting, as well as hard surfaces, such as your walls.

- a. True
- b. False
- 22. RenewO2 filters should be changed based on \_\_\_\_\_\_ and level of \_\_\_\_\_\_.
  - a. Ambient Conditions/Threat
  - b. Room Temperature/Disease
  - c. Local Climate/Threat
- 23. The smallest Personal and multi-person protection unit we have is the
  - a. UV Compact
  - b. Personal Air Purifier
  - c. UV Wall Purifier
  - d. UV Room Purifier





- 24. What are the filter types in Renew O2 air SANITIZERS. Select all that apply.:
  - a. Pre-Filter
  - b. HEPA
  - c. Activated charcoal
  - d. UV-C
  - e. Ozone
- 25. What kind of UV light is most successful in killing viruses?

a.UV-A b.UV-B

c.UV-C

26. What are some health risks associated with direct exposure to UV lights? Select all that apply.



- a. Damage to eye cellsb. Damage to skin cells
- c. No hazards exist



- 27. What wavelength of UV-C is used in Renew O2 air SANITIZERS
  - a. 222 nm
  - b. 254 nm
  - c. 280 nm
  - d. 365 nm
- 28. Does the use of Renew O2 air UV Purifiers replace the need for masks to be work in public places where people are within 6ft of each other

a. Yes b. No

- 29. What are the filter types utilized in Renew O2 air PURIFIERS. Select all that apply.:
  - a. Pre-Filter
  - b. HEPA
  - c. Activated charcoal
  - d. UV-C
  - e. Ozone





- 30. What is the protection radius of the Wall Purifier unit
  - a. UP to 6ft
  - b. Up to 8 ft
  - c. Up to 10ft
  - d. Up to 12-16ft (depends on environment)
- 31. Which of the following can trap most viruses
  - a. Pre-Filter
  - b. HEPA
  - c. Activated charcoal
  - d. UV-C
- 32. Which of the following can kill most viruses
  - a. Pre-Filter
  - b. HEPA
  - c. Activated charcoal
  - d. UV-C





- 33. What is the maximum recommended protection area for the Wall unit?
  - a. 80 SF
  - b. 200 SF
  - c. 280 SF
  - d. 400 SF
- 34. What is the maximum recommended protection area for the Compact unit?
  - a. 80 SF
  - b. 200 SF
  - c. 280 SF
  - d. 400 SF
- 35. What is the maximum recommended protection area for the Room unit?
  - a. 600 SF
  - b. 1000 SF
  - c. 1500 SF
  - d. 2000 SF



