
Placement Instructions

Placement of Puraclenz units in your facility is very important to optimize overall performance.
More than nearly any other factor, the location of Puraclenz units can impact their efficacy.

Ions can travel a long distance

Puraclenz ions will travel away from your unit but will be absorbed as they move.
Ion density will decrease from your unit due to factors included in the Puraclenz Unit Calculator.

Puraclenz ions cannot travel through walls or other solid surfaces.

Place your unit in the most central space in your facility.

Ions will break down with people in a space.

Ion levels will decrease during high-traffic times, but Puraclenz technology is designed to replenish ions faster than existing PCO device. Continually high human occupation in a space may require additional Puraclenz units to be installed.

Closed doors severely impede the flow of Puraclenz ions.

Keep doors open as much as possible (overnight is acceptable) for optimal coverage.

Keep your unit at a manageable height.

In areas with extremely high ceilings (over 12') place your Puraclenz unit 4'-10' above the floor, rather than very high up. This will give better coverage and make servicing easier.

Use your HVAC to your advantage.

Place your Puraclenz unit near the output of your air registers rather than at an air intake. HVAC outputs can benefit your Puraclenz unit by helping move ions through the facility.

Puraclenz technology is designed to operate 24/7.

Please connect Puraclenz units to power outlets that are turned on at all times.
Switched outlets, automatic timers, and other situations that may turn off power supply to the Puraclenz unit are not recommended.

Areas with dramatic environmental changes can still be protected by Puraclenz technology.

Places where many people assemble at one time (churches,, movie theaters, etc.) will see a drop in the amount of ionization when people come in, but the ionization will steadily rebound over time. Puraclenz technology will also continually clean the space after everyone has left, ensuring the space is treated before people come in again.

For more information, please contact Puraclenz LLC.

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Installation FAQs

How do Puraclenz units keep my environment safe?

The driving factor behind Puraclenz technology is an abundance of Multi-Clustered Ions in the environment. These ions are air molecules with an electrical charge; they are not heavier or lighter than standard air. The goal is to have even ion coverage throughout the entire space you are seeking to protect.

Where in my facility should I place my Puraclenz unit(s)?

Puraclenz units should be spaced evenly throughout your space, in areas where people spend the most time, and in the most open areas of your space. Units can be placed on a table or floor, or mounted on the wall or ceiling.

Because ions share many characteristics with the movement of heat, the easiest way to visualize where you should put multiple units is to figure out where would be the best place to put the same number of space heaters. The ions will act very similar to how heat is dispersed, ensuring even coverage for your Puraclenz units.

How do open windows and exterior doors impact Puraclenz technology?

Some ions will escape through windows and doors, but it is not a significant factor in most situations. If a door or window is open to the outside for extended periods, it will reduce the coverage area of Puraclenz technology.

What impact do closed interior doors and other closed spaces have on efficiency of Puraclenz technology?

Ions cannot travel through doors or walls but will seep through cracks at a slower rate than an open space.

What impact do common materials have on Puraclenz technology?

Puraclenz ions are broken down by anything with a slight electrical charge. This includes humans, plants, and animals (none of which will be harmed) as well as mold spores, bacteria, and viruses (which will be destroyed). Additionally, any other part of the environment that carries a static charge will absorb some amount of ionization until the static charge is depleted; this includes most plastics, loose-weave carpet, foam products, and many synthetic materials. If there is a very high amount of static-conducting material in the space, additional coverage may be recommended.

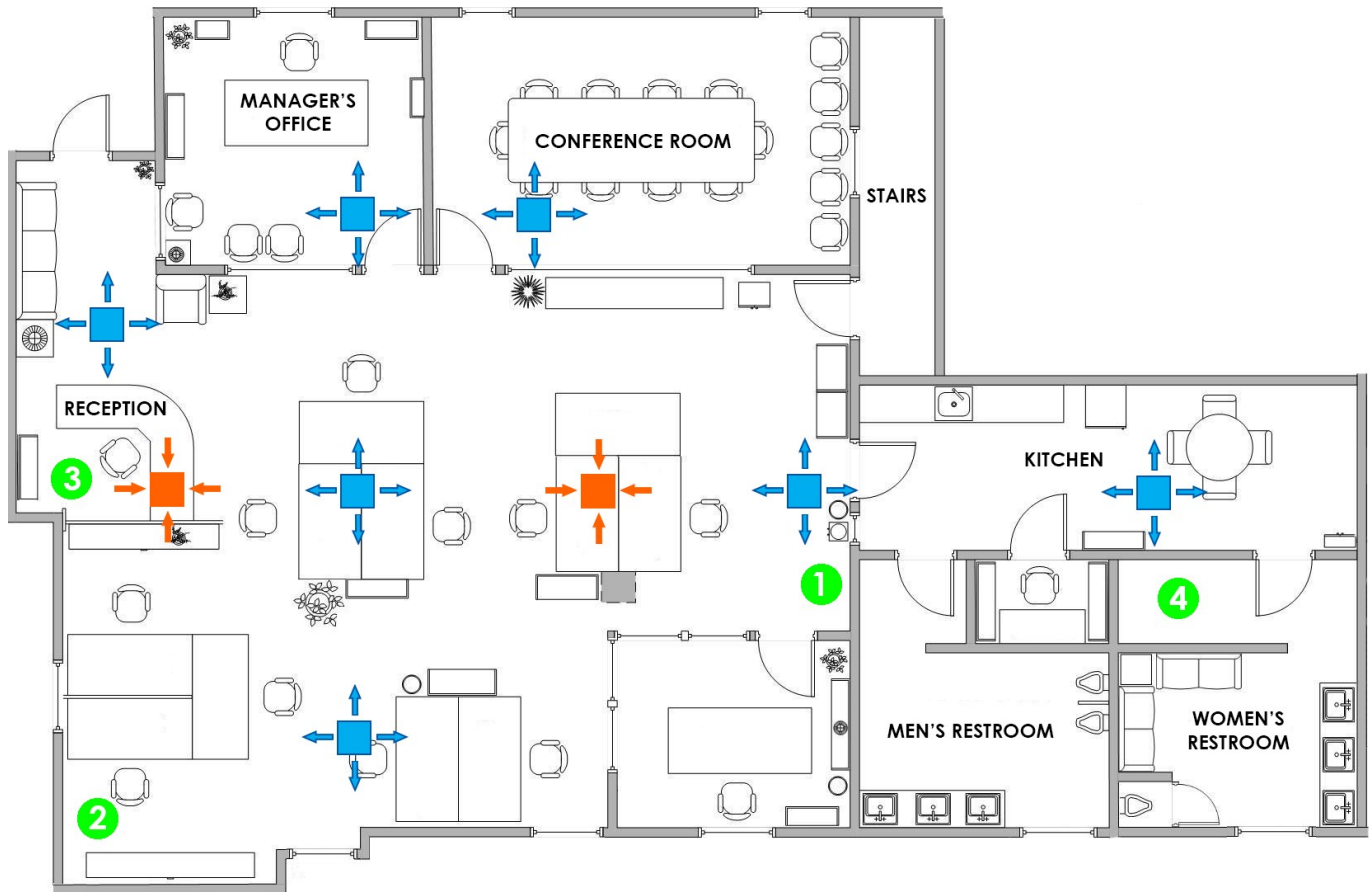
My space has _____ in it. How does that impact Puraclenz technology?

Puraclenz units are rated to cover a specified volume of indoor space with standard indoor characteristics (office or home use). Some environments have factors that may impact the coverage of the Puraclenz unit:

- An extreme amount of static-conductive material (Gyms, gymnastic flooring, plastic tarp dividers, exposed foam insulation, plastic or acrylic walls [such as a greenhouse]) will reduce the coverage area of Puraclenz technology.
 - A very high amount of biological load (animal boarding facilities, mold growth, indoor growhouses, dirt floors, or certain laboratory settings) will reduce the coverage area of Puraclenz technology.
 - An above-average amount of airflow commercial kitchens with vent hoods, extremely powerful exhaust fans, etc.) will reduce the coverage area of Puraclenz technology.
 - A very closed-concept building with many closed-off areas will reduce the coverage area of Puraclenz technology. If possible, leave doors open at night to give Puraclenz technology the opportunity to fill the space with ionization and clean the environment overnight.
 - A swimming pool or other open source of water will not have a negative impact on Puraclenz technology, but the additional biological load associated with bodies of water may reduce the coverage area of your unit. Puraclenz technology will not inhibit growth or kill pathogens in the water. Do not place your Puraclenz unit in any place that can fall into a body of water.
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Office Space Example

This example office space is ~2,900sqft with 8' ceilings and has the HVAC outlets (blue) and intakes (orange) as indicated. This office would only need one P3000 unit based on this square footage. Four example mounting spaces are in green.

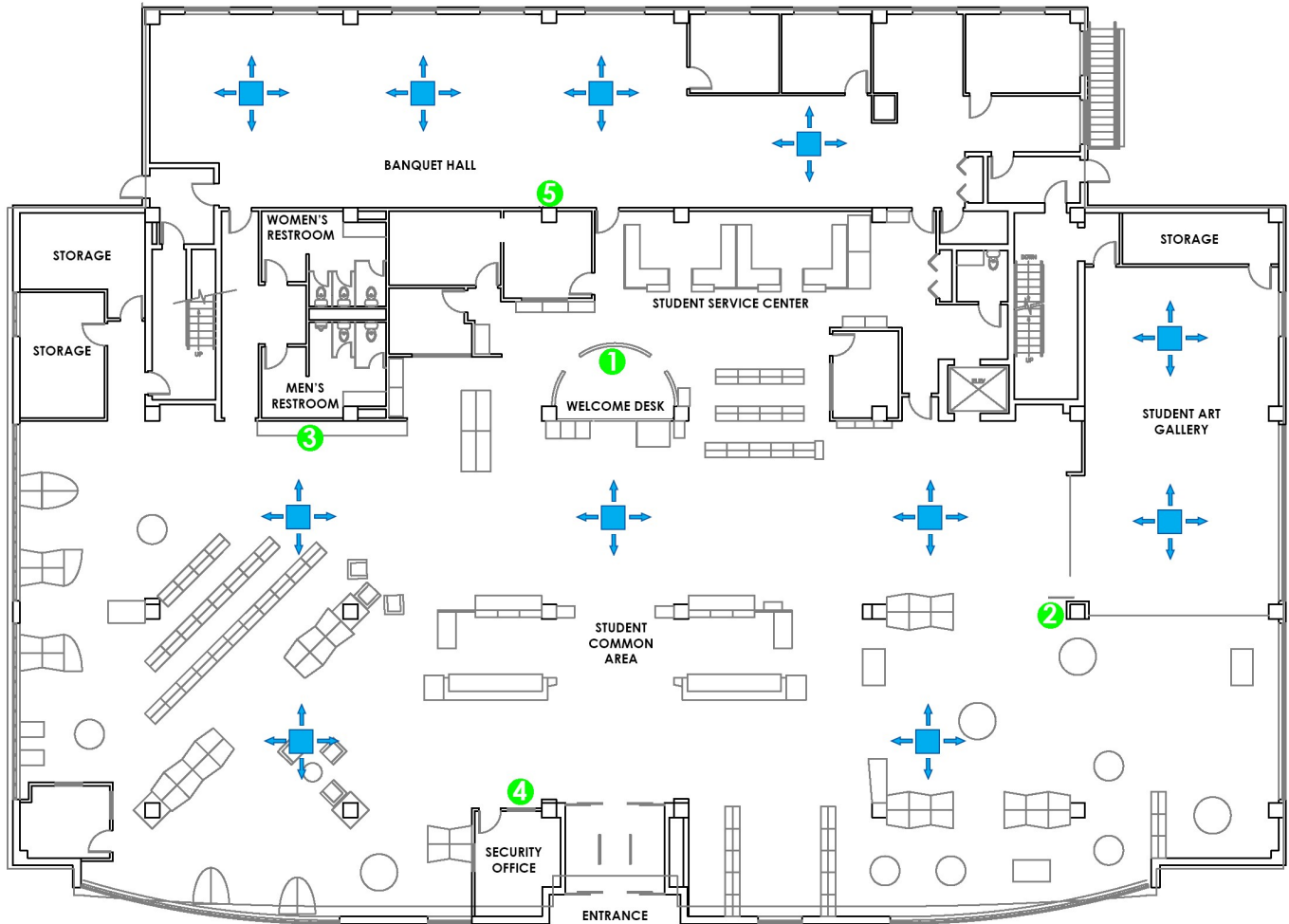


1. This placement is centrally located, near an HVAC outlet, and is near a door to the Kitchen and Restrooms. The furthest points in this office are relatively equidistant from this location. This is an ideal unit placement in this facility.
2. This is an area central to human activity, but it is a far distance from the Kitchen, Restrooms, Manager's Office, and Conference room. This would be an acceptable location in this office.
3. While this location is central to most human activity, it is directly below an HVAC return. It is also a far distance from the Kitchen and Restrooms. This would be a less-than-ideal location in this space.
4. This is not near human activity, is behind a restroom door, and is a very far from the rest of the facility. This would not be a recommended installation location.

Given the options above, Puraclenz would recommend installing one unit in location 1, and keeping doors to the Kitchen, Offices (if possible), and Restrooms open overnight to allow the Puraclenz ionization to permeate the entire facility.

Educational Space Example

This example Student Center would need five P3000 units based on the Puraclenz Unit Calculator. This building is ~ 13,000sqft with 10' ceilings, and only has fresh outdoor air HVAC intakes, and HVAC outlets are indicated in blue. Suggested placements are marked in green.



1. Centrally located, this placement would cover the middle portion of the Common Area and Student Services Center. This is a very ideal installation location.

2, 3, 4. These three units would be required to properly cover the Students Common Area and Art Gallery. These units are placed evenly throughout the space, giving even coverage in these main spaces. As this is the area with the most human activity, it should be the focus of the installation for this facility. The even HVAC distribution and lack of return air intakes in this space significantly aids in the coverage of this area.

5. As the Banquet Hall is ~2,500sqft alone, this space would require a dedicated P3000 unit for continual coverage. Within the Banquet Hall this unit is placed as centrally as possible.

This facility would be well covered with five Puraclenz P3000 units spaced as indicated. While there may be a drop in ionization during the peak times of occupancy, the Puraclenz technology will be able to fully ionize the space at night and during lower-traffic periods.