



# EVERY BREATH WE TAKE

## Pura Air's medical grade air purification systems provide safe, clean air for your facility.

Designed by leaders in industrial clean air, infectious disease protocol and global leaders in UVC germicidal applications at Signify, Pura Air has chosen the most recommended and tested science in air filtration—UVC germicidal light and medical grade scan-tested true HEPA filtration—to clean and deliver 99.99% clean air back into your space.

### The Advantages of Pura Air's Scientific Approach

Using high disinfection rates (LOG 1) achieved with UVC, combined with 99.99% filtration efficiency at 0.3 microns with true HEPA, allows Pura Air to effectively reach 99.99% LOG 4 reduction on the first pass through the purification unit. Our systems feature:

- > Superior UVC "kill chamber" design allows for safer, cleaner air than other systems on the market. Most portable UVGI air purifiers do not provide sufficient time and/or enough UVC dosage to be effective, thusly killing viruses at a fraction of the effectiveness of a Pura Air system. Care has been taken in the design of Pura Air's 'kill chamber' to create the most effective environment conducive to the use of UVC germicidal light possible.
- > Pura Air only uses scan-tested, true HEPA filters as the final filtration stage. There are a lot of 'hepa-like' named filters out there but they are not tested to the standards necessary to achieve actual HEPA certification and are often inferior. Being scan-tested also improves the efficiency of a true HEPA filter.
- > Pura Air delivers higher cfm which, when combined with our filtration methods, effectively and efficiently delivers clean air. We work with your facility to determine placement to help achieve target ACH.
- > To date, we are the only vendor globally that has created a completely closed loop air purification system, with clinical aerosol hoods specifically for the dentistry space but now being adapted for general office space.
- > Our solutions work to address building and mechanical limitations along with infection control protocols in both medical and dental facilities. Pura Air units operate independently of HVAC which helps to avoid high retrofitting costs as well as can immediately address high traffic areas.

### Bigger is Better

Neutralizing and irradiation of viruses via UVC is extremely effective but made challenging with air movement. It is because of this that Pura Air Systems are large in size. Successful irradiation relies on a combination of dose and lowered velocities. In our designs, we are irradiating the air with a significantly high dose to achieve a reduction rate of LOG 1 before the air passes through the final stage HEPA filter. The final stage of HEPA Filtration (using a scan tested 99.99% @ 0.3  $\mu\text{m}$  HEPA) allows Pura Air to achieve a 99.99% reduction rate (LOG 4). The UVC kill chamber has the appropriate amount of UVC lamps and wattage, but in addition, has highly reflective inner surfaces to destroy viruses within the chamber.

# Pura Air systems are designed with direct input from Signify's UVC and Applications Engineering department.

## AV1000 – For large ambient air applications

The AV1000 is designed for ambient air purification in gathering spaces where high aerosol loads are expected such as lobbies, common rooms, cafeterias, classrooms, gymnasiums, and more. Ideal for areas with larger or more stringent, medical-grade purification needs.

- provides significant airflow at 1000cfm to maximize effectiveness of its filtration system to deliver high disinfection rates.
- Is designed to integrate seamlessly into your space.
- Is quiet. The AV1000 tests from 52-62 dBA, depending on speed of fan use. (60 dBA is normal conversation).
- Can add to your layered infection protocols to reduce the risk of virus transmission, increasing the confidence in the safety of your environment for your staff and visitors.

### TECHNICAL SPECS:

- Dimensions: 30 3/8" w x 15 25/32" d x 90" h
- 1000 CFM nominal
- Carbon filter
- UVC Chamber with 10 - 24-watt bulbs
- MERV 8 Pre-filter
- HEPA filter, Scan Tested to 99.99% efficiency at 0.3 micron
- 1 HP motor, 115/1/60 voltage, w/plug

*"Filter and UV air cleaners for removing viruses from our air need to be strong enough to do what they claim to do. The engineering of the PURA system pays attention to the size and power of the UV chamber that puts it ahead of most systems. On top of that, HEPA filtering like the PURA system is the top standard for air filtration used in clean rooms and the safest health care facilities." - Dr. Brian Fleck, PhD, PEng, ICD.D, U of Alberta, Faculty of Engineering, on the effectiveness of Pura Air design, September 2020.*

