



HVAC UPGRADES IN RESPONSE TO COVID-19

We are making infrastructure upgrades to reduce the possibility of virus spread at Voicebox. Our goal is that guests in each suite can relax and enjoy their time knowing that they are not sharing air with guests elsewhere in the building. We consulted both epidemiologist experts and HVAC experts as we planned our upgrades.

Here is a summary of the major upgrades we are making to our Heating, Ventilation and Air Conditioning systems:

AIRFLOW

Our suites are designed with sufficient ventilation to deliver a complete air change approximately every five minutes. That means that at least 12 times an hour, your suite has all new, fresh air.

Air is never directly exchanged between suites. All the air being fed to your suite (and throughout the entire venue) first passes through MERV13 filters. These filters are recommended by HVAC engineers because they remove virus particles from the air.

ADDITIONAL IN-SUITE AIR FILTRATION

In addition to the steady supply of fresh air, we are equipping each suite with its own HEPA filtration machine. These machines continually clean the air in the suite, removing virus particles and other contaminants. The machines will sit on the floor, or the benches. These machines filter all of the air in the suite at an average of 7 times per hour, or every 9 minutes.

This is the device we are using: <https://cowaymega.com/products/coway-mighty-ap-1512hh>

AIR IONIZATION

We are spending several thousand dollars per store to outfit our airflow with Needlepoint Bipolar Ionizers. These devices fill the air throughout Voicebox with charged ions. These ions fight the virus in two ways:

1. The ions themselves attack and deactivate the virus particles in the air and on surfaces.

2. Most virus particles are hitching a ride on small droplets of moisture which tend to fall out of the air. Ionizers make droplets stick together into heavier drops that fall out even quicker and are also more easily stopped by masks and filters.

The ionizers have the additional benefit of reducing all forms of airborne pollution. Unlike older technology, this new generation of ionizers does not create dangerous ozone. These devices are already in use around the world in aircraft, offices and auditoriums.

You can learn more about this type of ionizer here: <https://www.businessinsider.com/bipolar-ionization-could-be-a-secret-weapon-against-covid-19-2020-4>

IN SHORT

- MERV13 filtration for all air fed to the suites. Air changes every 5 minutes.
- HEPA filtration machines in all suites. Air changes every 9 minutes.
- Ionization of all indoor air deactivates and removes virus particles