

HVAC UV lights & Covid-19

IAQ (Indoor Air Quality) Place with Covid-19?

Research shows that viruses and bacteria, allergenic pollens, mold, fungi and harmful pollutants contribute to poor indoor air quality (IAQ) that causes respiratory and heart disease, cancer, difficulty breathing, headaches, dizziness, and asthma. HVAC UV lights are very effective at controlling these viruses and bacteria in the air handler. You may choose to install them in the air return or in other strategic areas throughout the ductwork. UV lights work best when placed around reflective surfaces and with high-efficiency filters (HEPA).

FDA

UVC radiation has been shown to destroy the outer protein coating of the SARS-Coronavirus, which is a different virus from the current SARS-CoV-2 virus. The destruction ultimately leads to inactivation of the virus. UVC radiation may also be effective in inactivating the SARS-CoV-2 virus, which is the virus that causes the Coronavirus Disease 2019 (COVID-19).

CDC (Centers for Disease Control)

Centers for Disease Control (CDC), agree that the primary method of COVID-19 and influenza transmission is via airborne means. The cleanest room is instantly contaminated the instant an infected person enters and breathes, speaks, coughs or sneezes.

EPA (United States Environmental Protection Agency)

Use your HVAC system and consider upgrading filters. Since running your HVAC system filters the air as it is circulated, it can help reduce airborne contaminants, including viruses, indoors. By itself, running your HVAC system is not enough to protect yourself and your family from the virus that causes COVID-19. When used along with other best practices recommended by CDC, operating the HVAC system can be part of a plan to protect yourself and your family.

- Run the system fan for longer times, or continuously, as HVAC systems filter the air only when the fan is running. Many systems can be set to run the fan even when no heating or cooling is taking place.
- Check to be sure the filter is correctly in place and consider upgrading the filter to a higher efficiency filter or the highest-rated filter that your system fan and filter slot can accommodate. Consult your HVAC manual or an HVAC professional for details.
- Open the outside air intake, if your system has one (this is not common for home systems). Consult your HVAC manual or an HVAC professional for details.
- If your HVAC system has an energy-efficient air-to-air heat exchanger, heat recovery ventilator (HRV) or energy-recovery ventilator (ERV) use it, as they increase ventilation.