



# coronavirus

## Emergency Response for the COVID-19/Coronavirus Pandemic

### Decontamination Protocols in Occupied Spaces & the HVAC System

Since 1984 Pure Air Control Services has developed innovative solutions and improved best practices for effectively tackling IAQ and HVAC issues head on. The Coronavirus challenge facing us today is no different.

#### What Is Coronavirus?

It is a large family of viruses that cause illnesses ranging from the common cold to more severe diseases with pneumonia-like symptoms such as fever, coughing, sneezing and shortness of breath or other breathing difficulties. The virus is transmitted by tiny droplets that travel through the air by coughing and sneezing that enters the lungs to infect a person. It also spreads by contact with infected droplets deposited on surfaces then by touching the nose, mouth or eyes.

#### How Long Can It Live on a Surface?

A recent study in the Journal of Hospital Infection titled Persistence of coronaviruses on inanimate surfaces and their inactivation with biocidal agents, J. Hosp. Infect. 2020 concluded:

“ Human coronaviruses can remain infectious on inanimate surfaces at room temperature for up to 9 days. At a temperature of 30°C [86°F] or more, the duration of persistence is shorter.

This is dependent on a variety of factors such as surface type/material, viral food source, temperature and relative humidity.

#### How Does it Impact Buildings?

Because the virus is spread person to person, the occupied space is a particularly susceptible area of transmission and further spreading. This is especially true for shared office spaces, classrooms, student housing, and public spaces like retail stores, airports, and event venues, et al.

#### Coronavirus can residually contaminate a building in two ways:

1. Infected Droplets Settling on High Touch Surfaces
2. Entering, Settling & Traveling in the HVAC System

Overall, a Coronavirus outbreak in a building will be extremely disruptive to occupant well-being and organization operations. As always, it is recommended that Operation and HR managers educate building occupants on the personal hygiene best practices outlined by the CDC and WHO, and make sure staff or students who think they are infected stay home and seek help.

**Find Our Full Solutions & Resource Guide  
at [PureAirControls.com](https://www.pureaircontrols.com)**



BUILDING REMEDIATION SCIENCES



**PUREAIR**<sup>™</sup>  
CONTROL SERVICES, INC.  
*Healthy Buildings, Healthy People*





**PURE-DECON**

**PURE-*Steam***

**PURE-DUCT**

## How We Can Help: Coronavirus Solutions for the Indoor Environment

### LEVEL I

This is a tactical electrostatic spraying of an indoor environment that focuses on high-touch surfaces and HVAC grills.

### LEVEL II

Decontamination for the occupied space and HVAC system with containment. Level II includes our PURE-Decon atomized DEP treatment of the indoor environment and air conveyance system (ductwork). It also provides for the sanitization of the Air Handling Unit (AHU) and coils with light version of our PURE-*Steam* Process.

### LEVEL III

Decontamination for the occupied space, HVAC system and ductwork with containment. Level III includes everything performed under the Level II protocol but also includes a PURE-Decon topical cleaning. Level III environmental topical cleaning consists of HEPA vacuuming and then spraying and/or wet wiping surfaces with an EPA registered sanitizer.

**Note:** Level III topical cleaning **DOES NOT** include toilets, showers, interior of cabinets and desk drawers, dishes, canned foods, refrigerators, towels, linens, curtains, computers, electronic equipment, any kind of stock (e.g. office supplies, merchandise, books folders, etc.) or wall decorations.

### LEVEL IV

Decontamination for the occupied space (more inclusive), HVAC system, as well as PURE-Duct cleaning of ductwork, VAV terminal boxes and reheat coils. Level IV provides all protocols listed in Level III with a more thorough topical cleaning **THAT DOES** include computers, electronic equipment, any kind of stock (e.g. office supplies, merchandise, books folders, etc.), wall decorations (e.g. picture frames, posters, artwork, etc). The books and sensitive items will be cleaned via laminar flow chambers.

### LEVEL V

Level V is the most inclusive PURE-Decon service. It includes levels I-IV but adds the disinfection of cabinet interiors, desk drawers, toilets, showers, curtains, linens, towel and kitchens with included stock and appliances.

PURE-Decon can also be customized with varying specifications for any of these levels to meet your need. The disinfectants (DEPs) used is determined by multiple factors including situation, equipment needed and level of the project. This information will be detailed in the project specification prior to the commencement of work.

Together we can minimize the impacts of Coronavirus on your organization's facilities.

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