



## Trane CleanEffects® WHOLE HOME AIR CLEANER

### OFFICIAL TEST RESULTS

Independent testing finds that the CleanEffects Whole Home Air Cleaner removes more than 99% of the particles of the surrogate for the virus that causes COVID-19.

**Your home is your refuge where you retire from the stresses and hazards of the outside world, including airborne contaminants.**

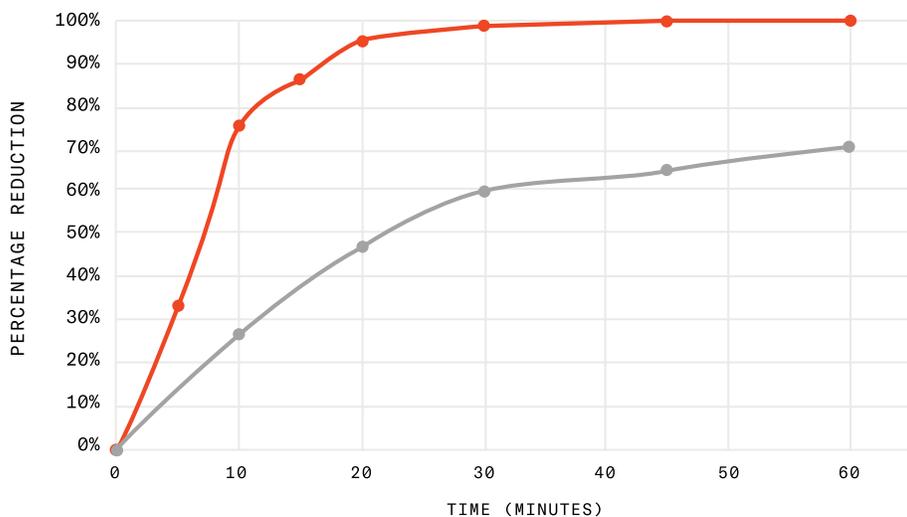
That's why we tested the efficacy of the CleanEffects Whole Home Air Cleaner and it's ability to deliver cleaner, healthier air by filtering out certain viruses—in particular the surrogate for SARS-CoV-2, the MS2 bacteriophage.

All testing was performed at the independent testing facility LMS Technologies in a 1,007 cubic foot chamber with air circulation rates that model common residential conditions. Tests were conducted using the MS2 bacteriophage as the surrogate for SARS-CoV-2. MS2 is a non-pathogenic, small, non-enveloped virus, which is considered to be more difficult to inactivate than an enveloped virus like SARS-CoV-2. In laboratory tests like this one, MS2 is often used as a surrogate for SARS-CoV-2 because it is assumed that if a technology is effective at inactivating the MS2 virus, it will be at least as effective at inactivating the SARS-CoV-2 virus.

As a result of COVID-19, many are spending more time at home, where everyone wants the confidence that their risk of exposure has been reduced.

● CLEANEFFECTS    ● NATURAL DECAY

MS2 SURROGATE VIRUS (REDUCTION BY PERCENTAGE)  
101 CFM BYPASS AIRFLOW



The CleanEffects® Whole Home Air Cleaner, when used in accordance with manufacturer's directions, is proven to be effective at removing certain virus particles. Effective removal rate based on independent testing results using MS2 bacteriophage, a bacteria representative of virus-sized particles like SARS-CoV-2 that causes COVID 19.

\*Removal rate based on an area of 1,007 ft³

### The Results

The chart to the left shows the CleanEffects test results against the natural decay of the MS2 virus (a control test performed to measure the natural rate of virus inactivation without the air cleaner on).

Independent testing results demonstrated that **CleanEffects Whole Home Air Cleaner removed more than 99% of surrogate SARS-CoV-2 virus particles within 30 minutes\***.

**Why test with aerosolized virus?** Aerosolized virus simulates coughing, sneezing, and talking, which are accepted as the most common ways of spreading SARS-CoV-2.

**Were byproducts measured during testing?**

The CleanEffects Whole Home Air Cleaner does not produce formaldehyde, and it also conforms to the UL2998 standard as it applies to in-duct devices.

See side 2 to see how CleanEffects works >



**Trane CleanEffects®**  
WHOLE HOME AIR CLEANER

**How does Trane CleanEffects work?**

After larger particles are filtered out by the pre-filter, air then flows through a powerful corona field to charge incoming particles. The patented iFD collection cells capture these charged particles using a conductive material, which causes the oppositely charged particles to cling to the surface, effectively removing them from the air stream. Once contaminants (certain viruses or dust, pollen, mites, bacteria, etc.) are removed, cleaner air is then released back into your household.



**Filter**

First, the pre-filter filters out larger particles to help keep the rest of the unit clean.

**Charge**

The corona-field charger made of a stainless steel grid, charges incoming particles with a 9.6V electric field, causing them to behave like magnets.

**Collect**

Particles adhere to the oppositely charged collection cells, **ultimately delivering cleaner air, significantly reduced of viruses like COVID-19, throughout your entire home.**

*The CleanEffects® Whole Home Air Cleaner, when used in accordance with manufacturer's directions, is proven to be effective at removing virus particles. Effective removal rate based on independent testing results using MS2 bacteriophage, a bacteria representative of virus-sized particles like SARS-CoV-2 that causes COVID-19.*