

We Can Do More Proactive Risk Reduction

Because



we can reduce contact time to help you breathe easier.

Reduce the Contact Time with a Viable Virus

We can render the virus unable to reproduce by exposing it to

- Direct germicidal UV light
- Indirect germicidal UV light

Once installed, UV lighting systems are passive, self-running solutions that don't require a labor force to implement.

We can also

- Pull droplets and aerosols away from ourselves with the strategic use of simple, quiet paddle fans
- Adjust HVAC dampers to bring in more fresh air, thereby diluting the virus and reducing its risk of infecting us
- Boost HVAC systems to increase the rate at which they completely change the air in our enclosed spaces—from twice in an hour to six times or more—again reducing the contact time (or the length of time during which we are exposed to the virus)

- Install filters that draw in air like “smoke eaters,” and then zap it with germicidal UV rays

Reduce Points of Contact

We can eliminate the need to come into contact with high-touch surfaces by automating operations that we currently do by hand:

- Opening/Closing Doors
- Turning Lights Off/On
- Turning Faucets Off/On
- Activating Hand Driers
- Flushing Toilets
- Running A/V Equipment/Presentations

We can achieve this with motion sensors, foot pedals, or via apps that individuals can install and use on their own personal devices.

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NO-TOUCH FEATURES

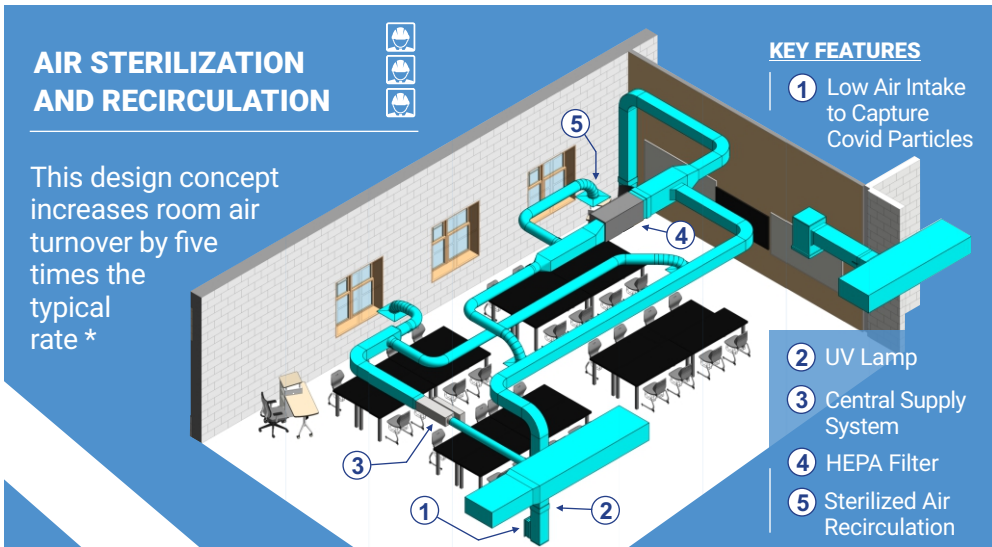
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Doors, Faucets, Light Switches

UV LIGHTS

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Sterilize the Building Interior After Hours



* Code minimum office air change rate is twice an hour. If increased to 10, room turnover rate improves to every 6 minutes.

Q&A

How easy is it to get, install, and maintain UV lamps and fixtures?

AVAILABILITY: UV-C lights and fixtures are currently still available; however, as awareness of their usefulness in combatting the virus increases, the demand for them is also likely to rise, quickly depleting supplies. If supplies do become scarce, you would do well to have placed your order for such lights and fixtures sooner rather than waiting.

INSTALLATION: Many light fixtures can be retrofitted to accommodate UV-C bulbs. In cases where they can't be retrofitted, a new fixture can be installed quite easily and efficiently. If necessary, older electrical panels can be upgraded in very little time for a negligible amount of money. If you want to create an upper-room germicidal UV system, installing the sieve-like ceiling tiles can be a little tricky,

and mounting the UV lamps so that they are securely affixed at the right height and angle takes some work—but neither operation is terribly hard. Boxed filtration systems that use UV light can be easily mounted and hooked up to run as they are self-contained units—think “plug and play” devices.

MAINTENANCE: Fixtures should be checked periodically to ensure that they are still mounted properly to deliver light at the right height and angle but checking them—even repositioning them—doesn't require significant labor. The bulbs are advertised to last for 16,000 hours, so if they are used 24/7, they should last two years. However, if they are used just two hours a night, they could last more than 20 years. Furthermore, the systems can be set up to run automatically or operated remotely. This system requires less maintenance than the current option of sanitizing with liquid or aerosol chemicals that require constant restocking and reapplications, and employing a large janitorial workforce.

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How will I know if the UV-C light is working properly?

QUALITY PRODUCTS: These bulbs and fixtures are manufactured by extremely reputable companies and tested to ensure that they meet UL standards, so you can trust them to deliver the appropriate wavelength range that they claim to provide.

QUALITY CHECKS: If you do want to double check that they are still delivering light at the intensity and wavelength specified, you can easily test their output with a meter. Doing that once a year should be sufficient to ensure peace of mind. If you feel it necessary to assure yourself that they are operating at night for the appropriate length of time, you can install a monitor to do that.

Are UV-C lights and fixtures intrusive?

APPEARANCE: Currently, the fixtures are rather utilitarian looking in that they have been designed for functionality alone. However, Korda has been working with a major lighting manufacturer to design more aesthetically pleasing fixtures and filters that will blend into public spaces more discreetly. We expect that these will likely be coming to market in the near future.


NOISE LEVEL: UV-C bulbs and fixtures are silent. Boxed UV filters incorporate small fans that emit some low-level noise, but relative to the noise made by the more powerful fans that must be

employed to force air through HEPA and other tightly woven filters, they are a much quieter option.

Can we increase the rate of air changes in older HVAC systems?

The short answer is “usually.” At hospitals and laboratories that use more robust central systems, we can definitely do that with simple modular add-ons. In schools and offices that typically rely on prepackaged rooftop air systems, we can achieve this by adding recirculating air handlers to the system. Our primary constraints are space and the cost to purchase and power additional modules or air handlers. Conduit, which usually runs through the walls of older buildings, can also be an obstacle—but not necessarily an insurmountable one. Korda engineers can evaluate your situation and find solutions to fit your circumstances.

How hard is it to switch over to hands-free operations?

It's not hard at all. Changing a light switch is inexpensive, easy, and quick: the switch might cost \$20, and the labor could take one electrician an hour or two. Adding a motor to a door is a bit more costly and complex—it could take as long as two days to complete, but even that is a pretty minimal amount of time. Overall, to automate the fixtures in a workplace or school is a straightforward and quick process that, once done, should function well for years. 

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