



## ***SARS AND ULTRAVIOLET***

### **ULTRAVIOLET DISINFECTION CAN HELP MITIGATE RISK OF INFECTION**

#### **SEVERE ACUTE RESPIRATORY SYNDROME**

As of this writing WORLDWIDE:

- 6521 people infected\*\*
- 25 nations affected\*
- Mortality rate of 6%\*
- 461 reported deaths\*\*
- Total contamination – unknown\*

\*Reuters, April 24, 2003

\*\*CDC Update on Severe Acute Respiratory Syndrome (SARS) –May 6, 2003

This sickness is caused by a virus. This virus has been identified as a “new pathogen, a member of the corona virus family never before seen in humans” (World Health Organization, April 16, 2003). The new pathogen has been named “SARS Virus” (WHO, April 16, 2003). **The disease is “spread by droplets from sneezing and coughing**, but may also be transmitted by touching contaminated objects” (WHO, Reuters, April 25, 2003).

Recommendations by the World Health Organization (revised April 24, 2003) include:

- Turning off air conditioning and opening windows for good ventilation if an independent air supply is unfeasible.
- Specific advice concerning air conditioning units will be available soon.

### **SARS VIRUS IS SUSCEPTIBLE TO ULTRAVIOLET**

On the ALTRU-V “World’s Most Wanted Pathogens” poster in the virus section, you will see the Corona Virus listed. This is the family of viruses from which the SARS Virus has mutated. Utilizing UVDI’s proprietary software modeling, it is possible to predict how UV will destroy this virus both on the fly, i.e., airborne,

and on the surface of coils. Utilizing the V-Flex from the ALTRU-V family of products, the client can expect:

#### COIL SURFACE IRRADIATION BENEFITS

- Ultimate UV intensity distribution on target coil surfaces
- Improved indoor air quality by destroying coil surface microbes

#### “On-The-Fly” (airborne) BENEFITS

- Flexible mounting allows for optimal dosage to supply unmatched UV intensity for medical applications
- Provide the extreme high dosage required to disinfect a fast moving air stream
- Versatile design allows for application of high intensity UV to help reduce infectious disease microbes, including colds, flu and other viruses
- **UV has proven effectiveness on Mycobacterium tuberculosis (TB), Legionella pneumophila (Legionnaire’s Disease) and other infectious microbes, including those from the Corona Virus family.**

For your hospital applications, or any containment area application where the spread of viruses is of concern, the ALTRU-V family of products can help further mitigate the risk of infection.

Contact UltraViolet Devices, Inc. (UVDI) today for additional information. You have a product (V-Flex) which will help ensure that your clients will be doing all they can to help mitigate the risk of infection for their building occupants. UVDI also has a powerful software tool to optimize product placement and enhance product performance. SARS may be transmitted through face to face contact involving an infected party and that mode of transmission will not be treated by the use of UV in the air ducts.

For critical Air Duct applications such as mitigating known presence of a serious pathogen such as the Corona Virus, we recommend bioassay testing be conducted after installation of any UVDI equipment has been installed, to validate UV system performance to satisfaction of all appropriate parties.

UVDI products are well engineered and our applications software can help predict performance with significant accuracy. The ability of our products to reduce the presence of the virus responsible for SARS is an added benefit for those concerned about this newly discovered pathogen.

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