Covid Safe Space IAQ calculator and “Is My Space Safe” Series

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The Covid Safe Space IAQ calculator has been constructed as a design tool and communication platform to help groups create Covid Safe Spaces. Beyond our immediate concern of developing Covid Safe Spaces is the more permanent need to establish truly healthy indoor environments. A Covid Safe Space should not be a temporary adjustment to the operation of an indoor environment. It is the way all indoor environments should be operated.

The “IAQ” aspect of the calculator’s second worksheet determines our dissatisfaction with indoor air quality, sick days we experience from seasonal colds and influenza viruses, and air quality impact to our cognition and work productivity. Covid Safe Space indoor environments also provide insurance against future pandemics by retarding the spread of new contagions. We need to change today’s indoor virus incubators to virus inhibitors.

What is the cost of improving indoor ventilation in cold northern or hot, humid climates? The calculator’s third worksheet provides energy and cost information for ventilation systems. The energy and cost worksheet emphasizes a “per hour per person” viewpoint. From this viewpoint, one finds that the cost to improve indoor environments is a penny or so per hour per person in comparison to a human health and productivity gains worth several times this amount.

A series of informational and educational YouTube videos provide background and usage examples for the Covid Safe Space IAQ calculator. Five categories of videos are available (see the attached figures with active links). The five instructional video categories are: Getting Started, Special Topics, “Is My Space Safe”, “Is My Space Healthy”, and “Is My Space Energy and Cost Efficient” videos. Bold items have links to online videos. Unlinked items are in process and will be posted as they are developed. The video list will continue to grow, and your input and ideas are requested to help guide our efforts.

Download a Google sheets copy of the Covid Safe Space IAQ calculator here. For those who would like additional background and understanding of the calculator, read our report, “Indoor SARS-CoV-2 Herd Immunity and Infection Probability Estimates Based on Ventilation, Vaccination, Infections and Face Masks”.

Questions, Comments and Criticism are appreciated and can be directed to Ty at:
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Getting Started

Introduction

Background

Calculator Use
“Is My Space Covid Safe?” series

“Is My Space Safe?” Series Intro

Is My Office/Business Safe?

Is My School Safe?

Is My House of Worship Safe?

Is My Restaurant Safe?

Is My Gym Safe?

Is My Store Safe?

Is My Car Safe?

Is My Flight Safe?

Is My Home Safe?
“Is My Space Healthy?” IAQ series

“Is My Space Healthy?” Intro

Is My School Healthy?

Is My Restaurant Healthy?

Is My Office/Business Healthy?

Is My House of Worship Healthy?

Is My Gym Healthy?

Is My Store Healthy?

Is My Car Healthy?

Is My Flight Healthy?

Is My Home Healthy?
“Is My Space Energy & Cost Efficient?” series

- "Is My Space E&$ Eff?" Intro
- Is My School E&$ Eff?
- Is My Restaurant E&$ Eff?
- Is My Office/Business E&$ Eff?
- Is My House of Worship E&$ Eff?
- Is My Gym E&$ Eff?
- Is My Store E&$ Eff?
- Is My Home E&$ Eff?