Daniel Alberto Sepúlveda Estay

From: Jesper Hermansen <jesper@nordicco.eu>
Sent: 7. februar 2022 10:03
To: Daniel Alberto Sepúlveda Estay; Christian Michel Sørup
Subject: RE: SD-Vent Model paper draft.v220201
Attachments: 220201 _Journal___A_system_dynamics_study_of_the_use_of_UV_in_overhead_ventilation_JH.pdf

Both,

I have now reviewed the paper. I think the structure makes perfect sense, so no comments to that.

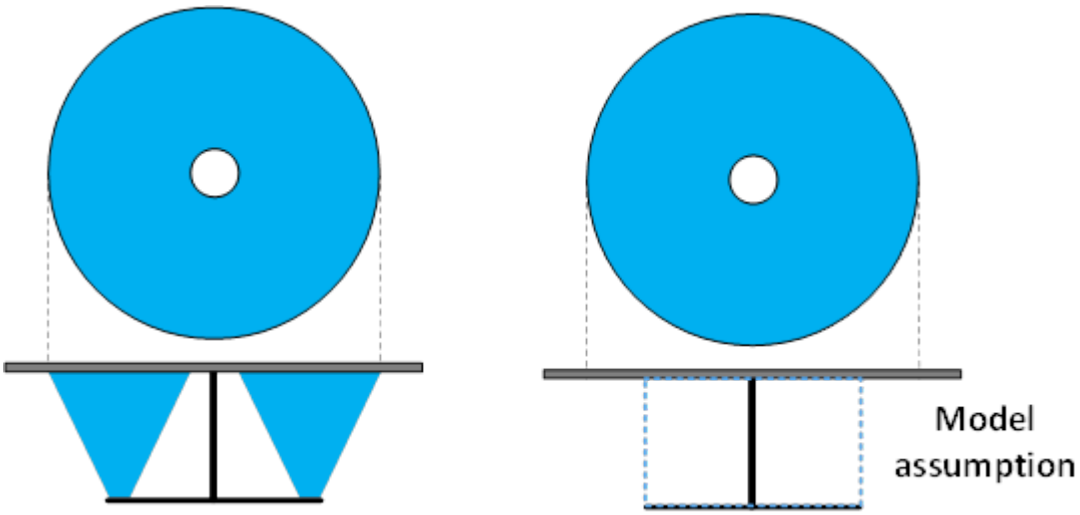
I might suggest adding a sketch of the system (as overhead fans with upper air GUV is not common it might help understanding how it looks)

I have added a few comments, primarily to the assumptions. As the model is extremely complex it will be hard to reduce the assumptions even more as the model will become too complicated.

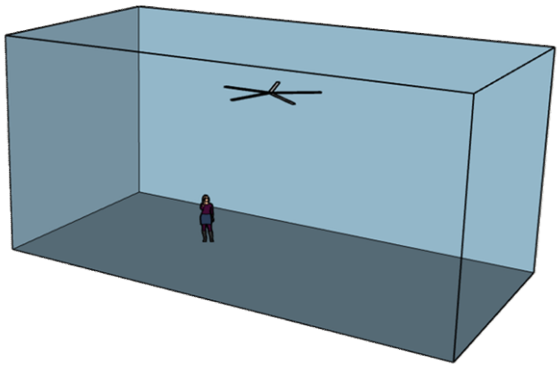
One might suggest that during the model validation (comparison to the empirical and FEM) you might consider adjusting some of the assumptions to get as close to at least the empirical test as possible. This could also be part of the discussion.

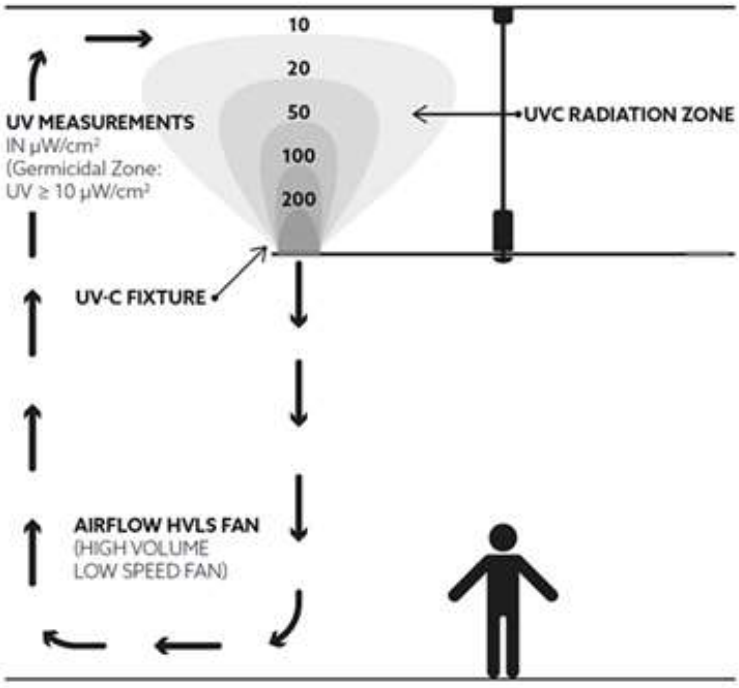
Let me know if I can be of further assistance on this.

Below some sketches that could be of inspiration:



This is just a sketch of the principles. In reality the angle between blade and light will be much greater (larger area) But for illustration purposes I think it shows the principles.





Med venlig hilsen / Best Regards
Jesper Hermansen

From: Daniel Alberto Sepúlveda Estay <daniel.alberto.sepulveda.estay@regionh.dk>
Sent: 1. februar 2022 11:18
To: Thorkild I.A. Sørensen <tias@sund.ku.dk>; Jesper Hermansen <jesper@nordicco.eu>
Cc: Christian Michel Sørup <christian.michel.soerup@regionh.dk>
Subject: SD-Vent Model paper draft.v220201

Dear Thorkild and Jesper,

I attach the current version v220201 of the a paper describing the model, and proposing a paper structure for your review and comments. Some indications:

1.- The contents page (page 1) is only temporary and will be absent from the final version. It is included only as a reflection of the paper structure.

2.- The paper will be directed towards the SEPS- Socio Economic Planning Sciences Journal (https://www.journals.elsevier.com/socio-economic-planning-sciences)

3.- The paper has been advanced mainly in the description of the model and a structure has been proposed.

4.- The next steps in the paper development are

a.- Model Validation , both Formal and comparison with Empirical and FEM Studies (Daniel)

b.- Model Application (Christian)

We highly welcome your input and comments with respect to any aspect of the paper.

Looking forward to your comments.

Med venlig hilsen / Best regards

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