



**Wydział
Fizyki**

POLITECHNIKA WARSZAWSKA

*Simulation of the heat
transfer in the RACK
cabinets*

Supervisor: Krystian Rosłon





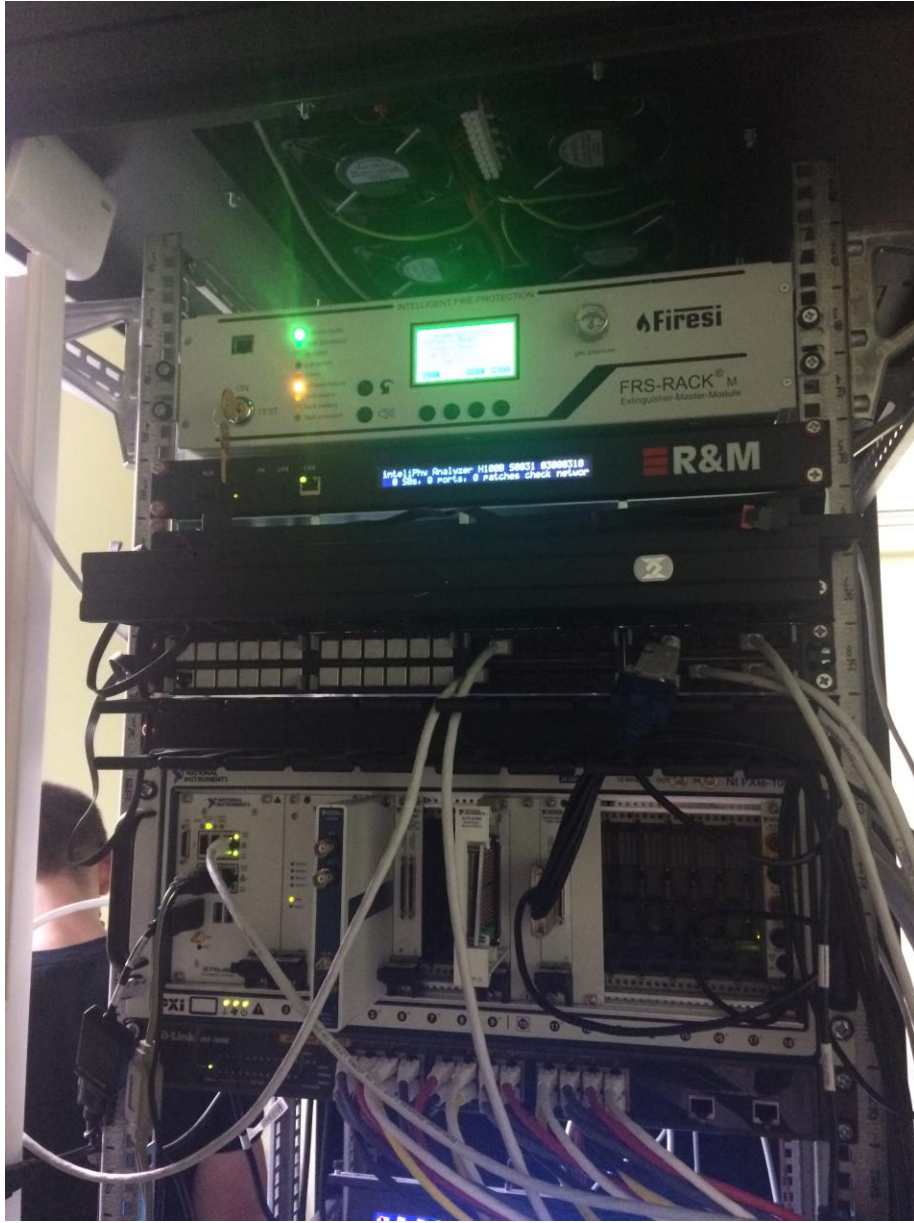
goals

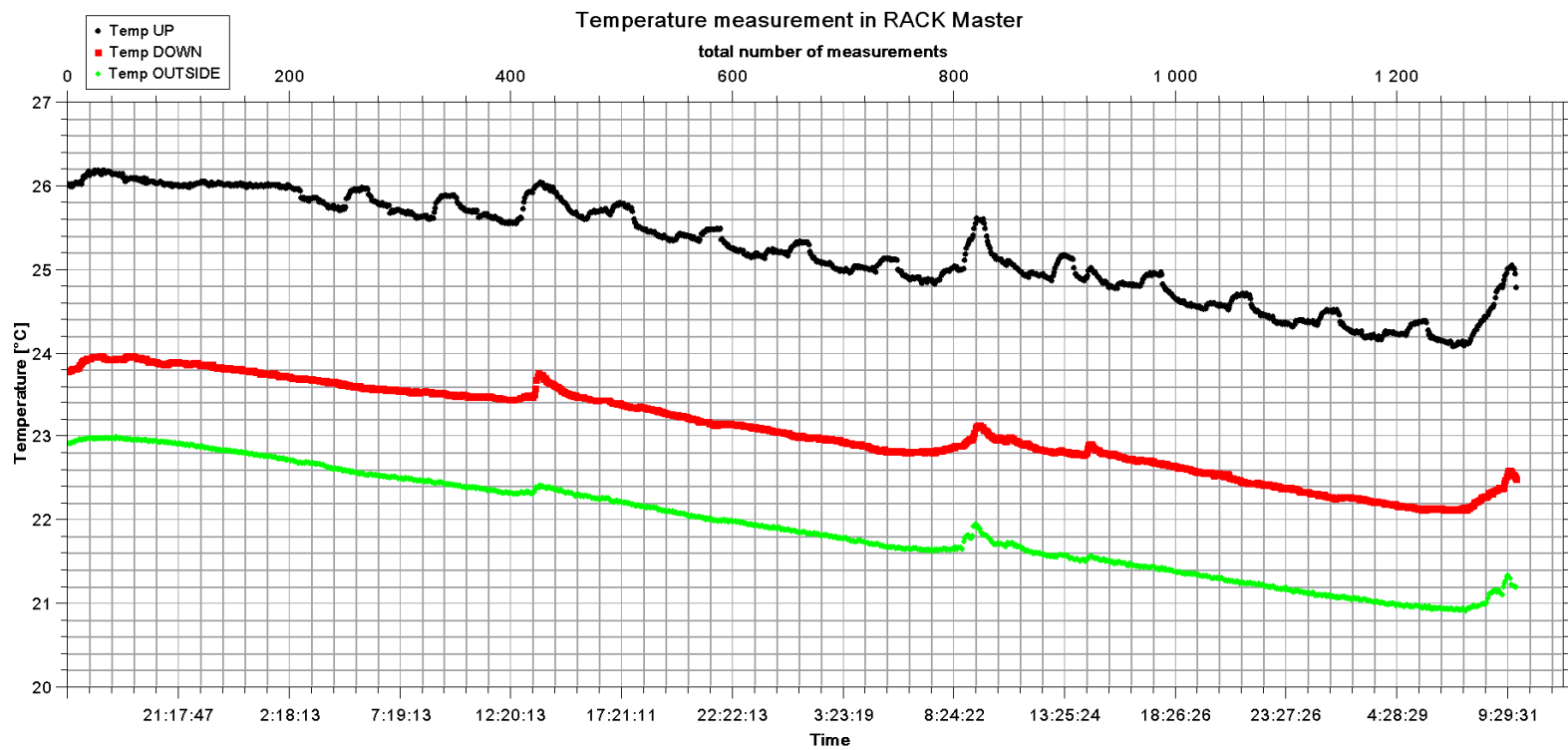
Model the 3D RACK cabinet

Simulating the amount of generated heat

SLOW CONTROL SYSTEM







A. Kwasnik et al., Acta Phys. Pol. B Proc. Suppl. 11, 727 (2018)

How to predict?

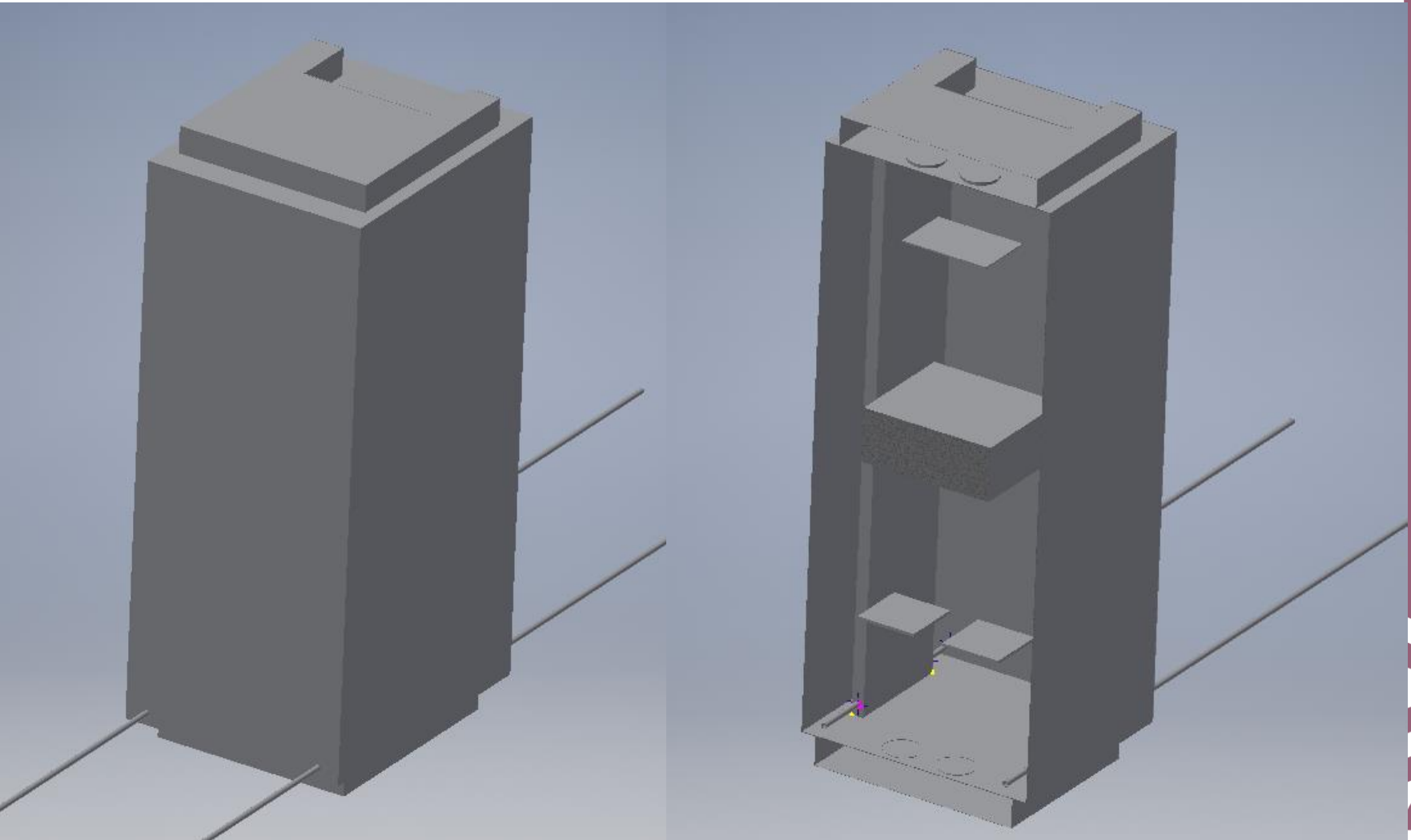




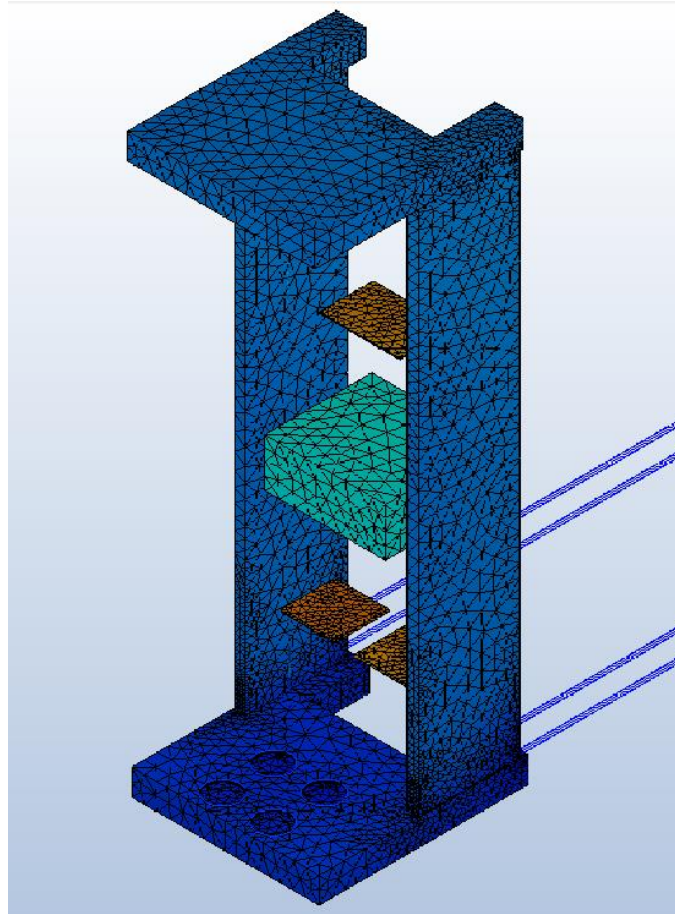
Computational Fluid Dynamics



Autodesk Inventor

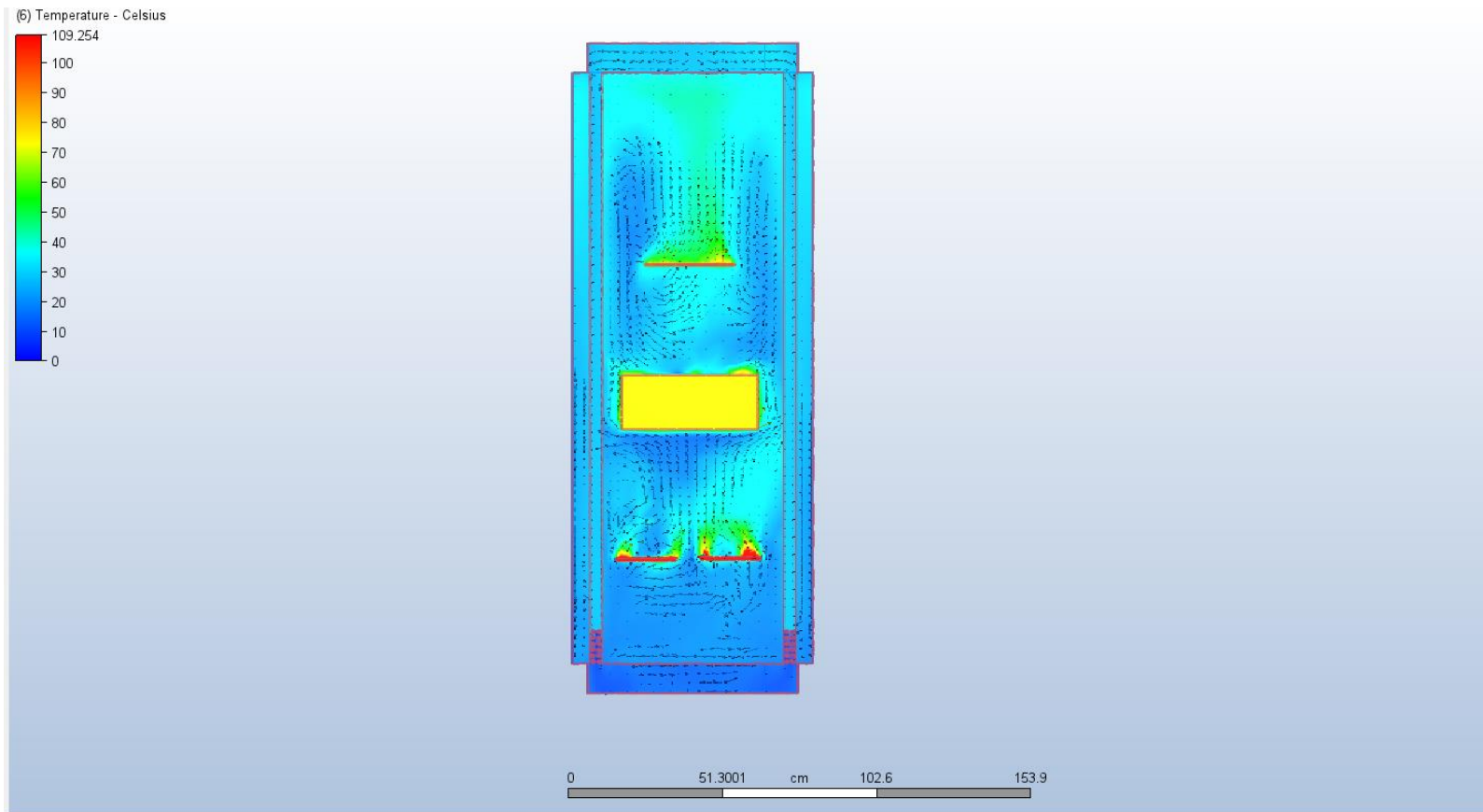


finite element method

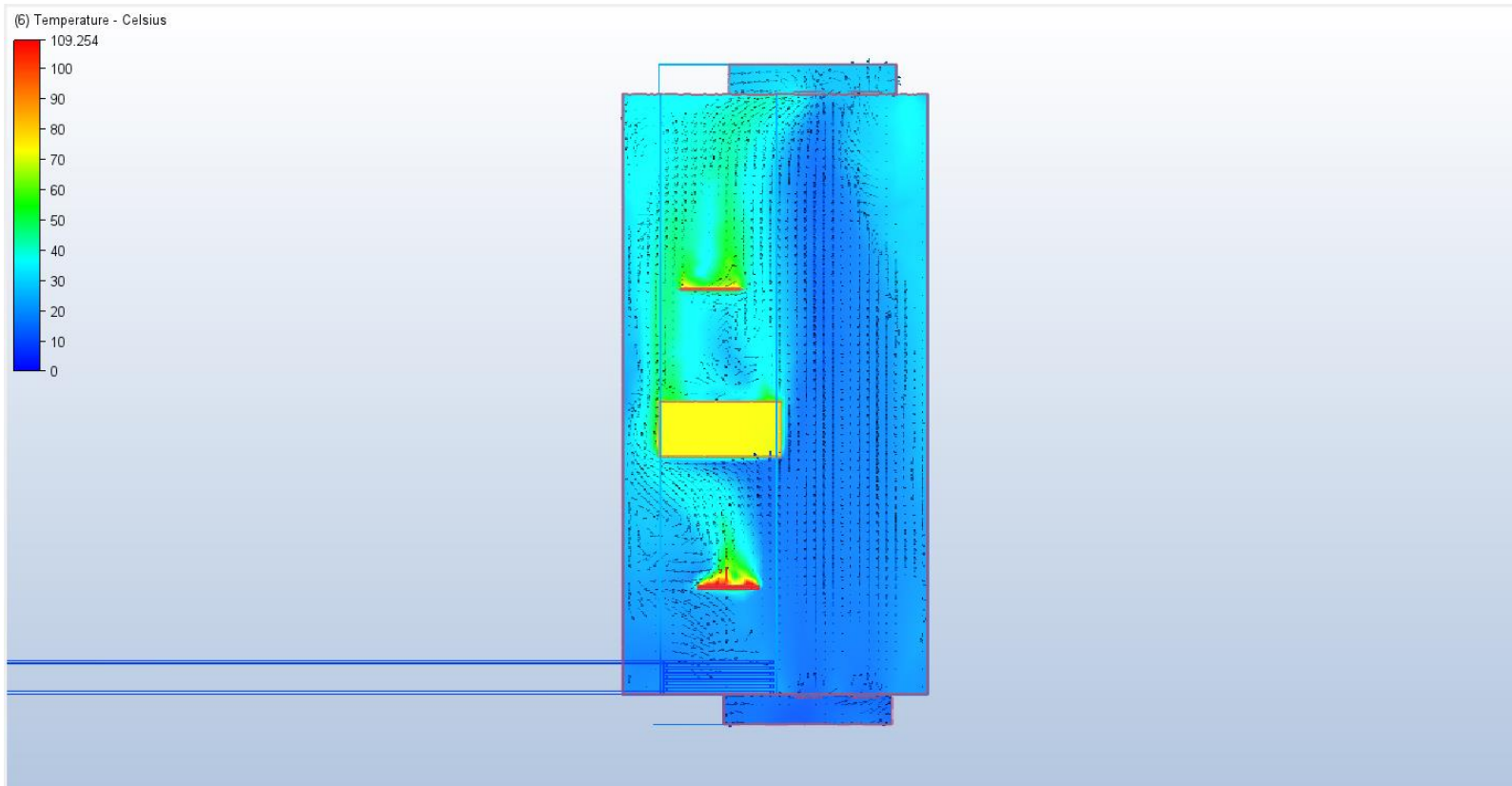




RACK simulation_1



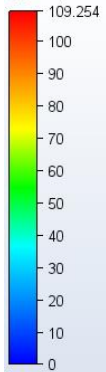
RACK simulation_1



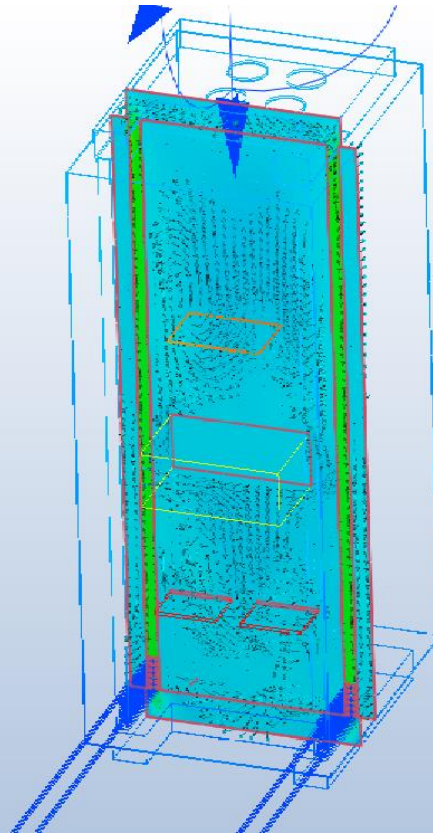
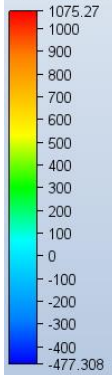


RACK simulation_1

(6) Temperature - Celsius

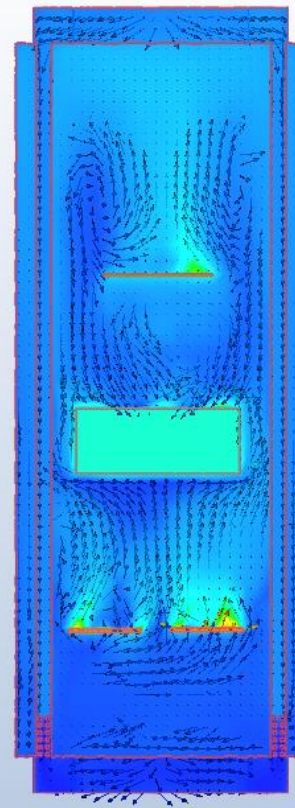
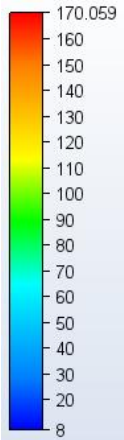


(4) Vz-Velocity - cm/s

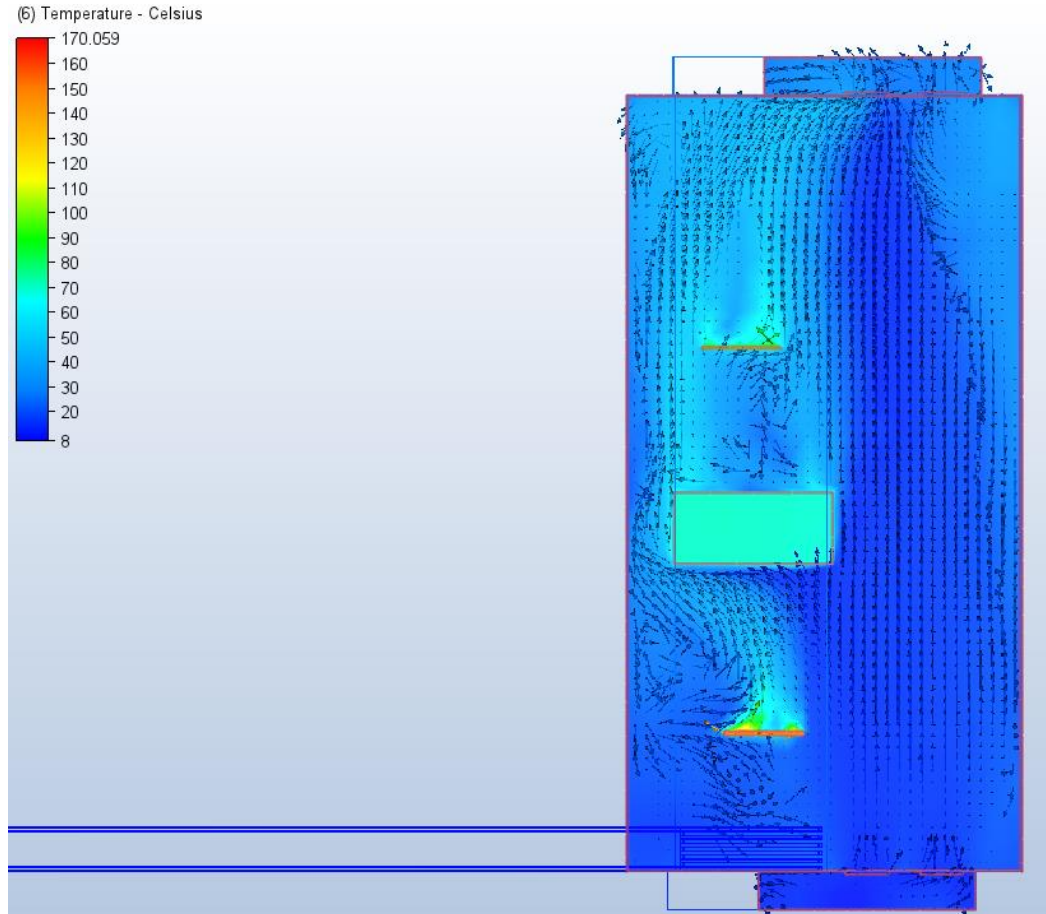


RACK simulation_2

(6) Temperature - Celsius

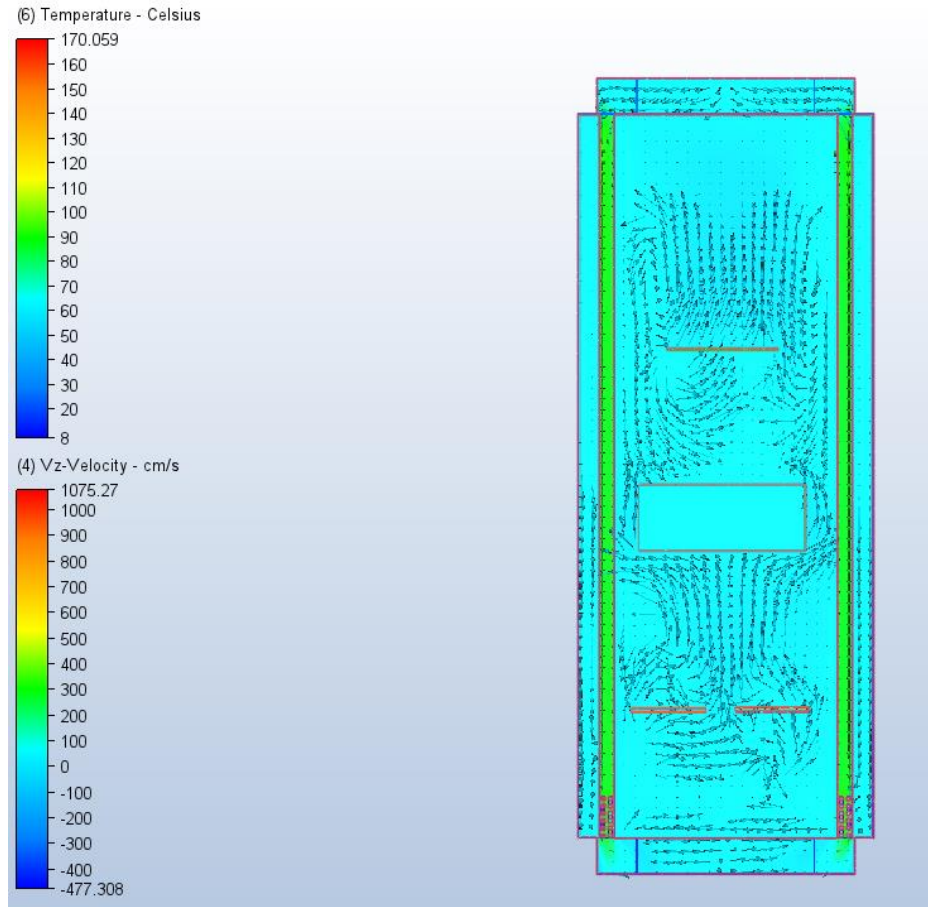


RACK simulation_2

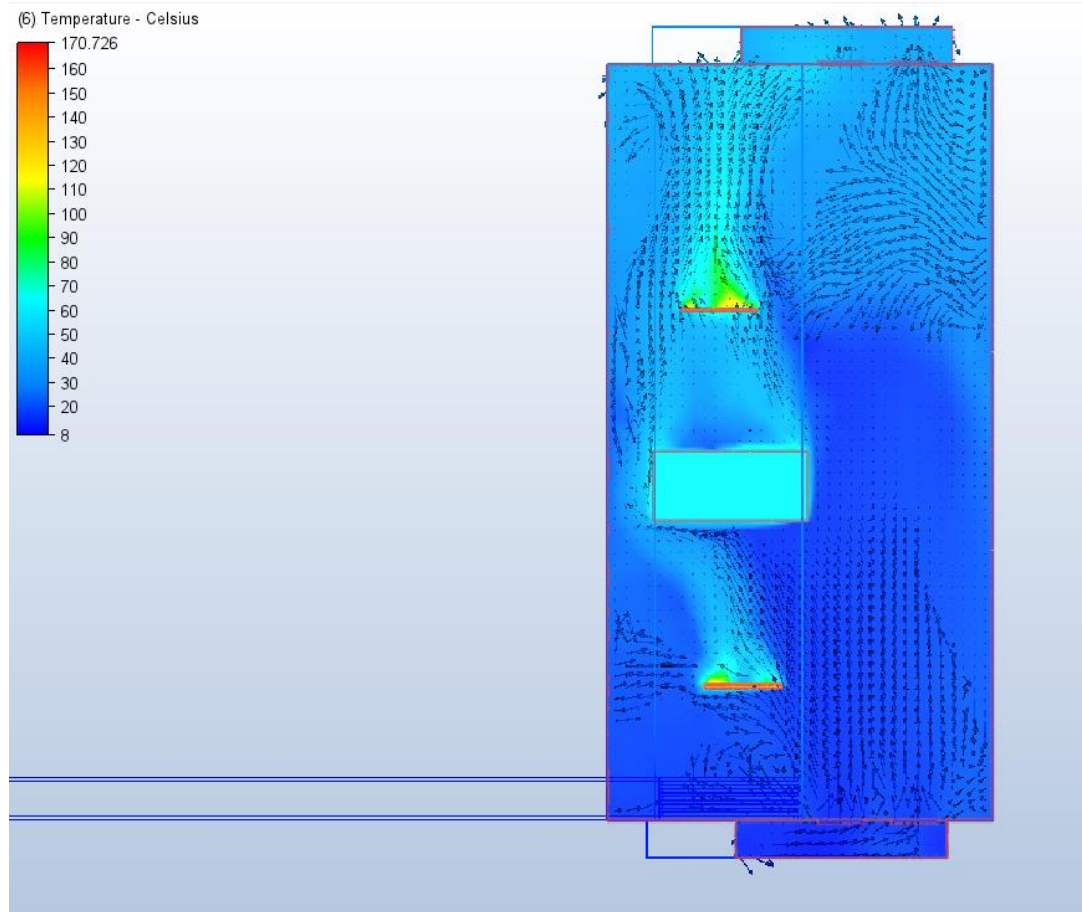




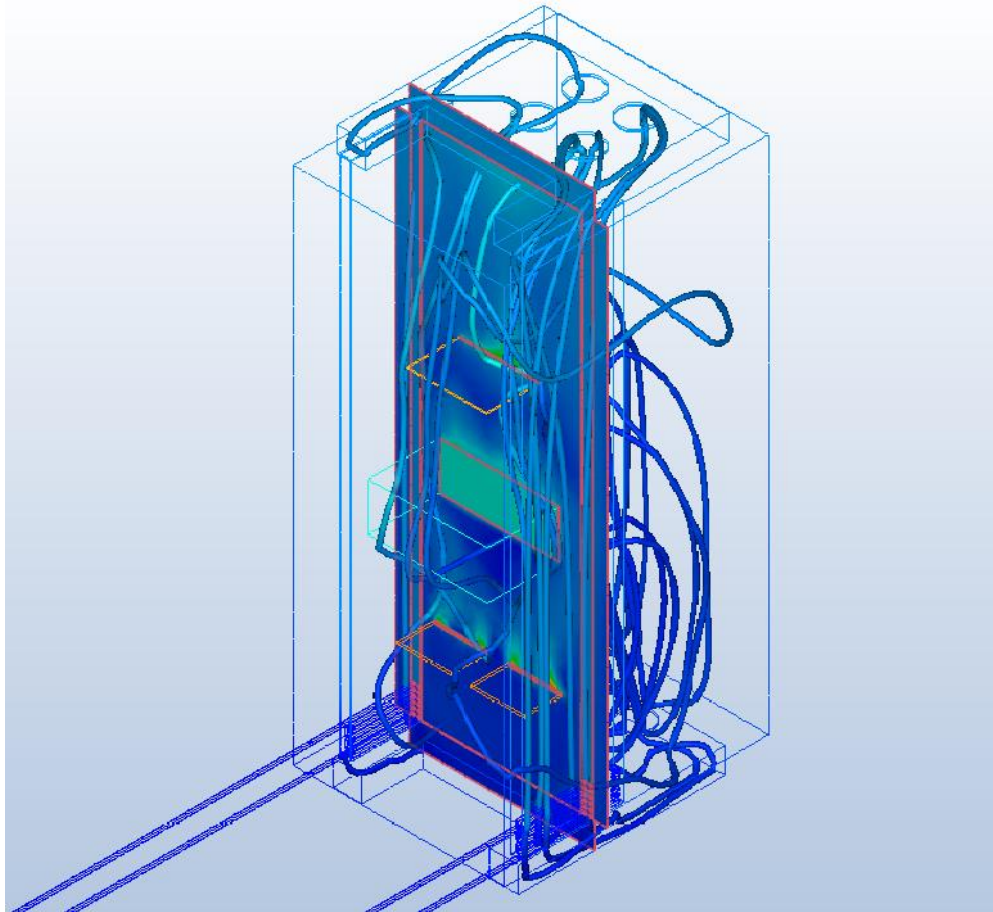
RACK simulation_2



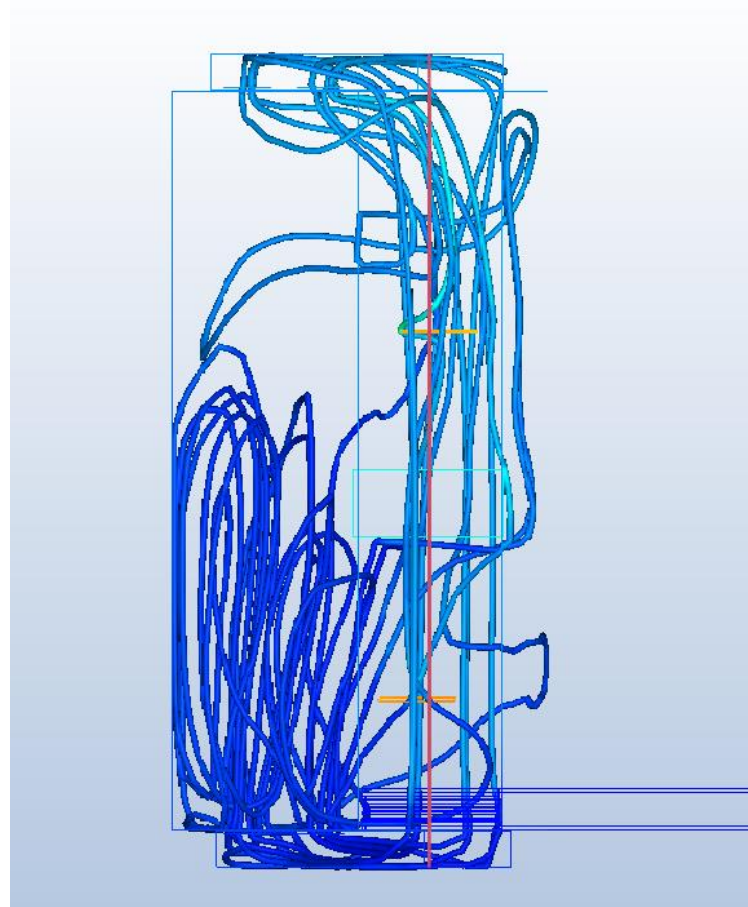
RACK simulation_1



RACK simulation_1



RACK simulation_1



Thank you for
attention!

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