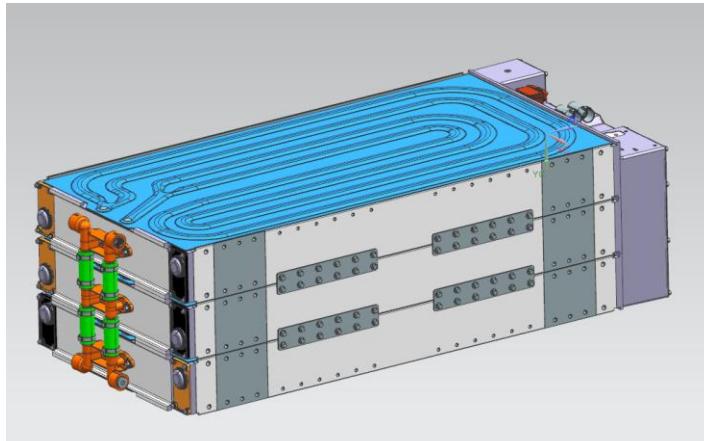


Thermal Modeling Works

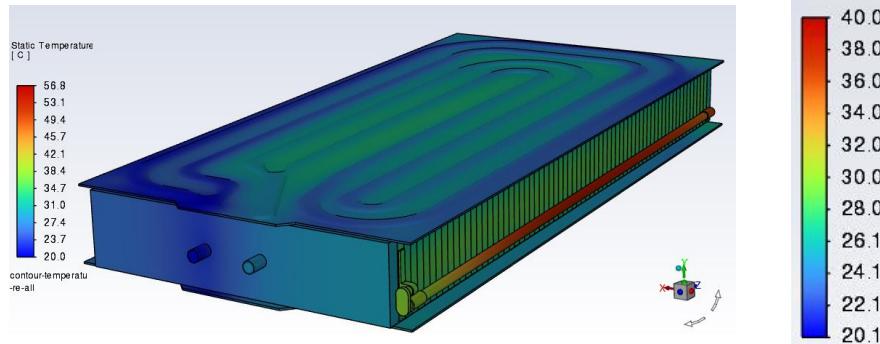
Dongmyung Suh

Thermal CFD Analysis: Liquid Cooling Battery Package

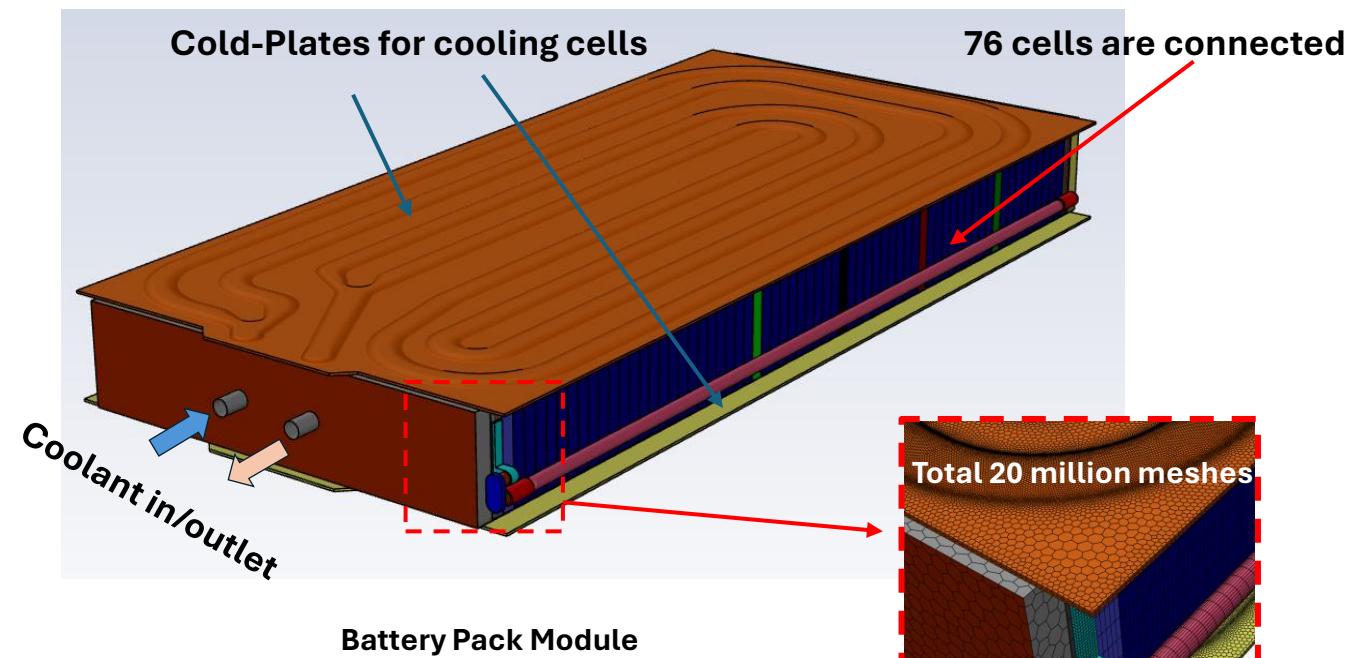
Thermal CFD Analysis: Liquid Cooling Battery Package

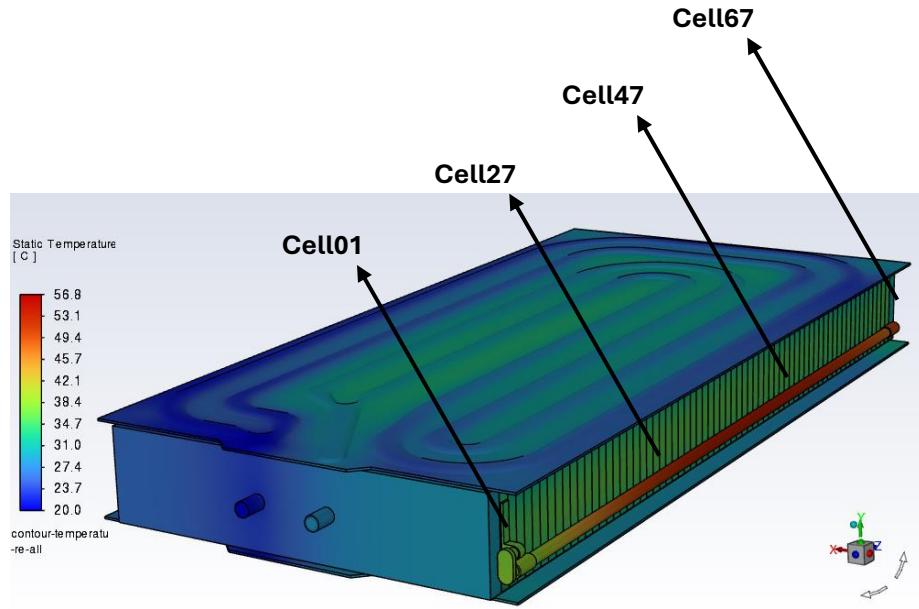


ATLAS(104kWh) Battery Package

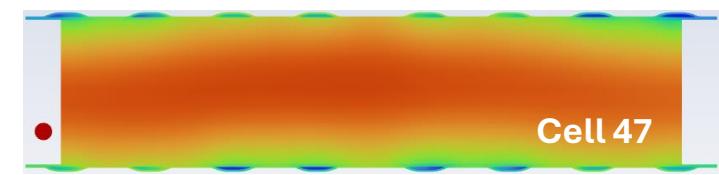
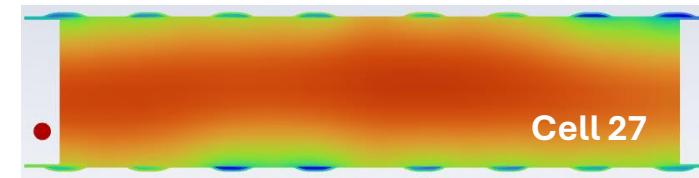
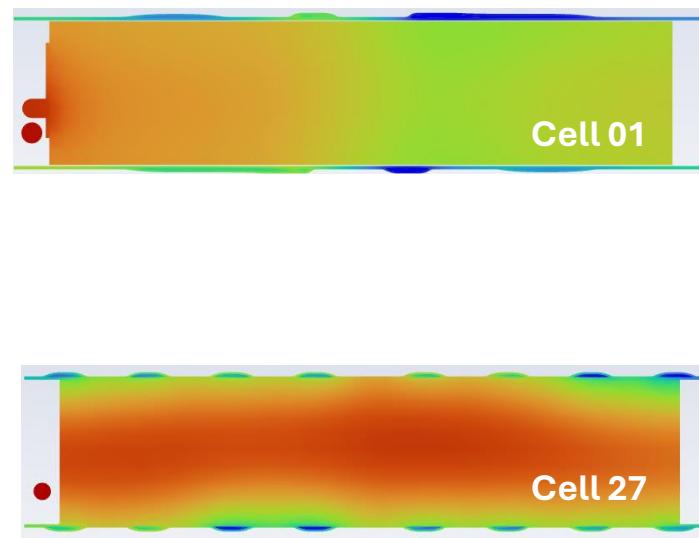


Thermal Analysis: Temperature distribution



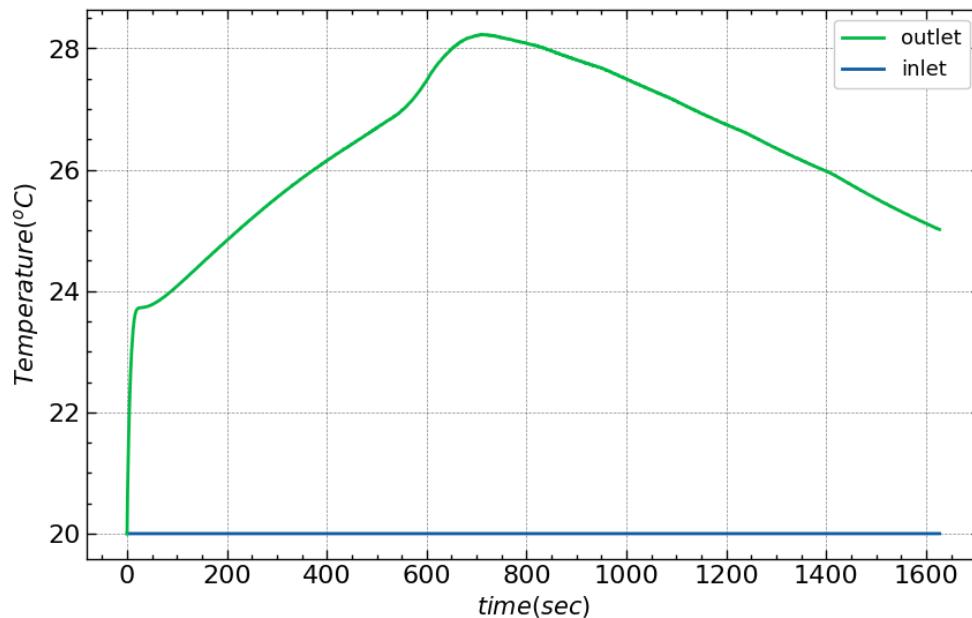


Thermal Analysis: Temperature distribution

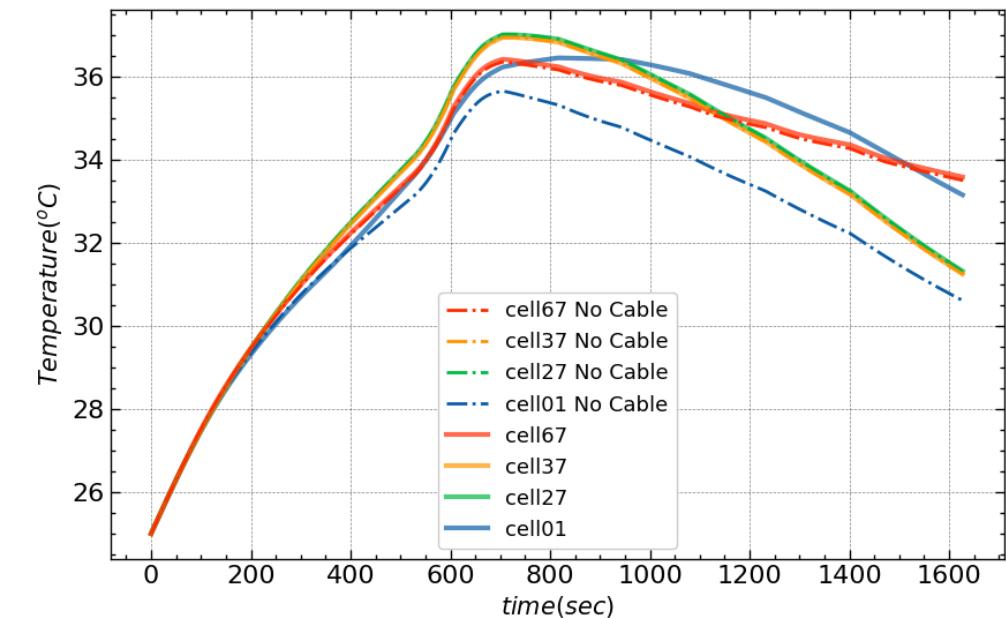


Temperature Distribution of Cells

Transient Thermal Behavior



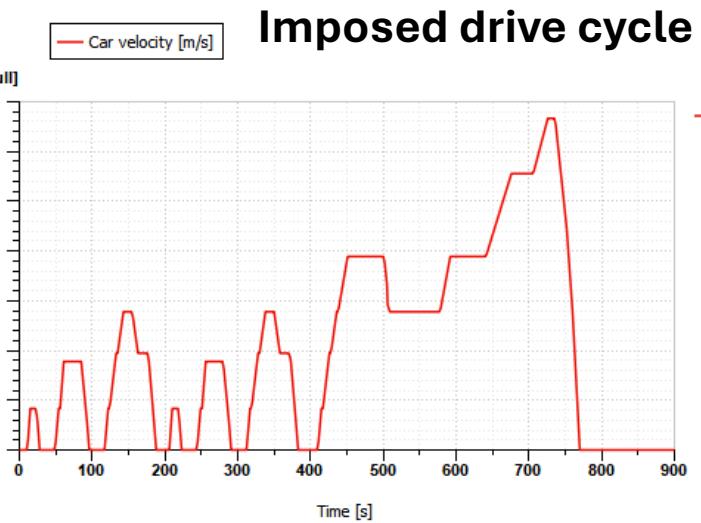
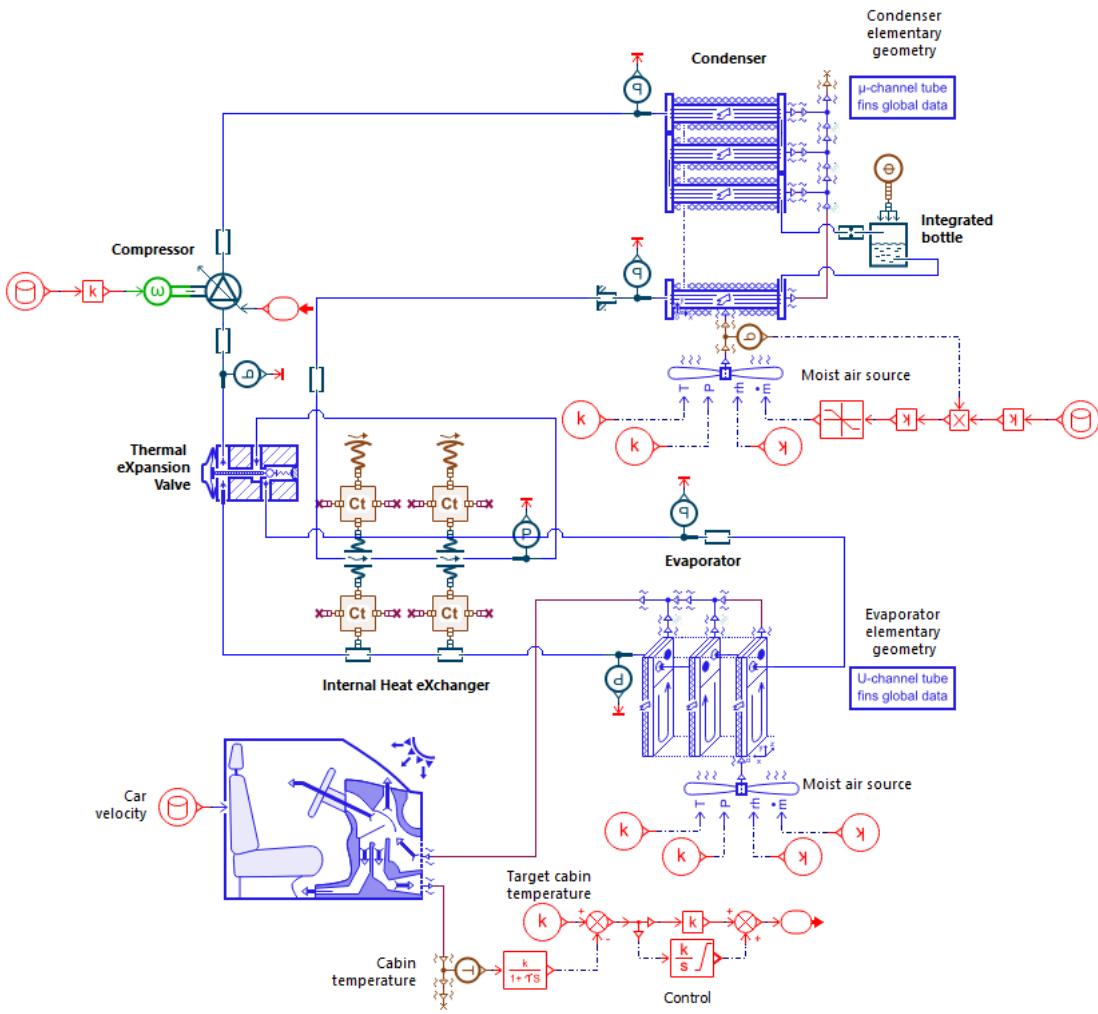
Coolant Temperature Evolution



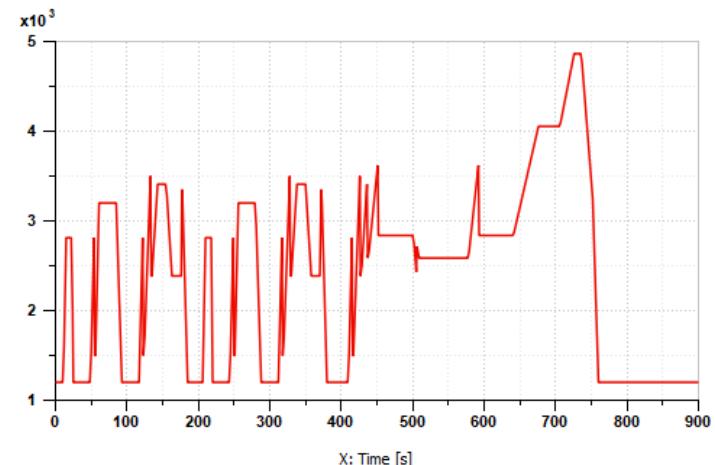
Max. Temperature in Each Cell

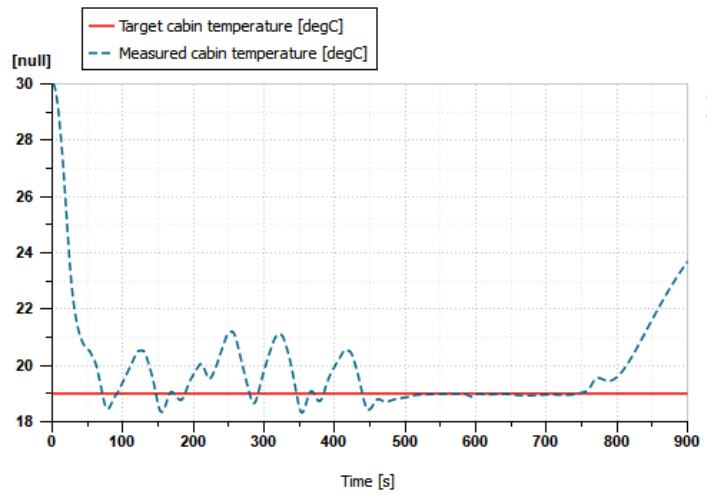
Thermal System Modeling: HVAC of a vehicle Cabin

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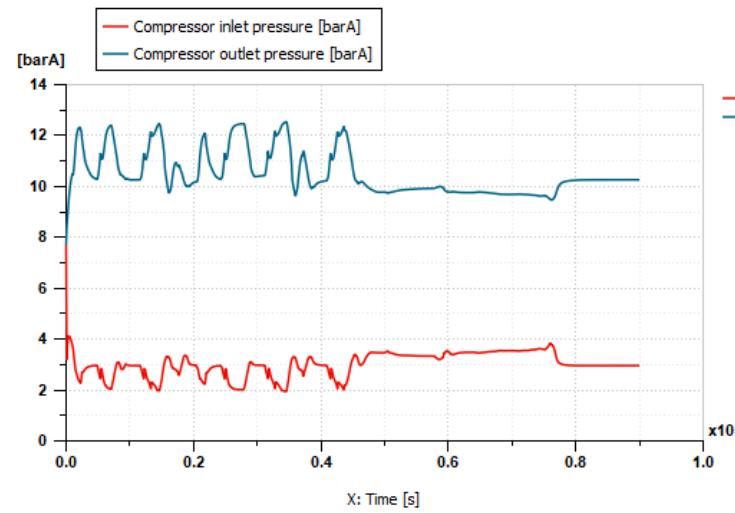


Evolution of the compressor rotary speed

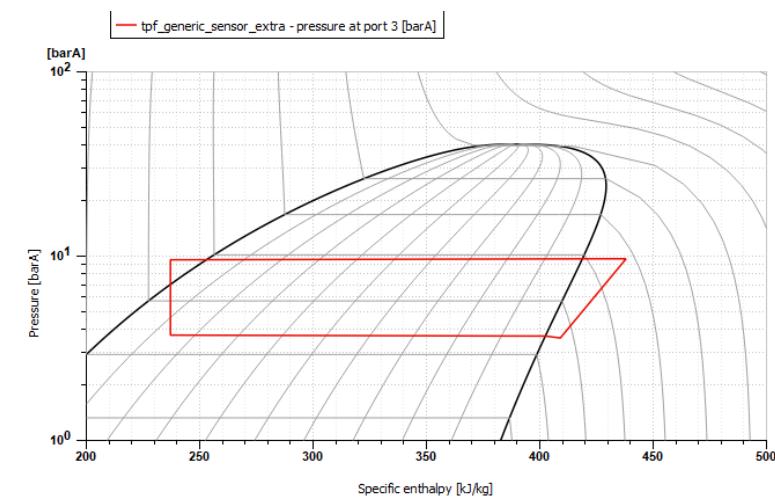




Evolution of the cabin temperature



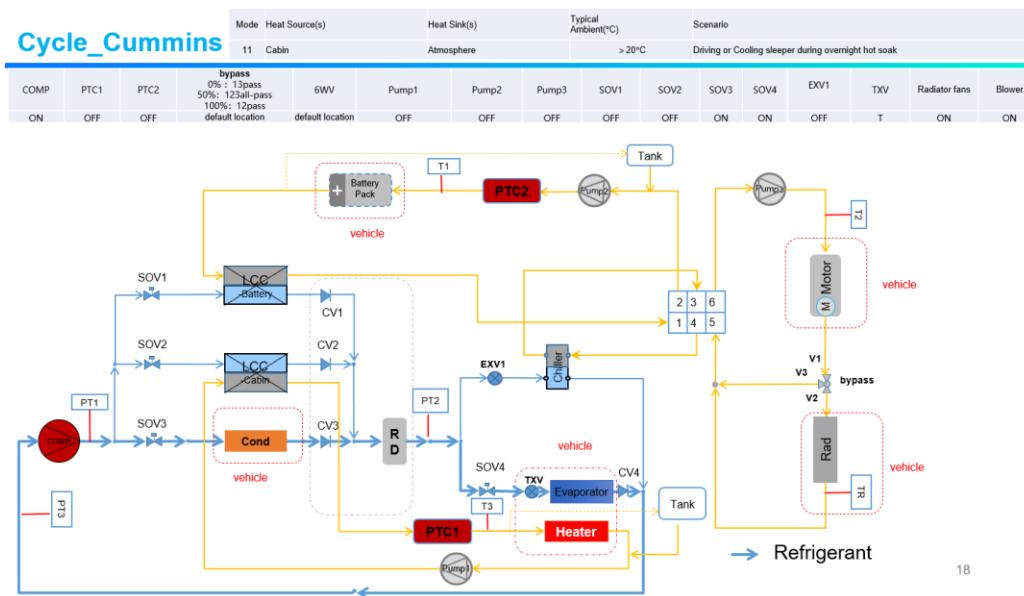
Evolution of pressure at compressor inlet and outlet



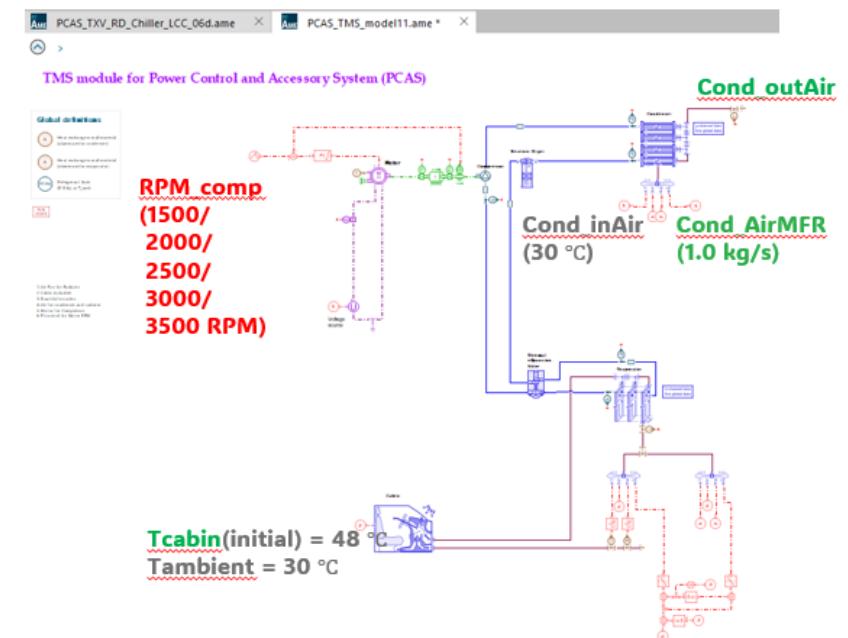
Thermodynamic plot

1D Thermal Modeling for Thermal Management System

1D Thermal Modeling for Thermal Management System



System Diagram



Amesim Model