

KULI hvac – Air Conditioning



Description

- CAE-Software for the thermal management optimization of HVAC systems
- Simulation of refrigerant circuits and passenger cabin for comfort estimation

Features/Specifications

- Can be used as standalone program or as an add-on to KULI base
- Output like COP, evaporator dehumidification, refrigerant charge or subcooling value
- Simulate interaction between engine cooling and HVAC system (add-on version only)
- Evaluate passenger cabin heat-up/ cool-down requirements
- Extendable refrigerant media library
- Geometry based heat exchanger models
- Various compressor control strategies
- Multi-zone passenger cabin model
- “Chiller” component for electric vehicle battery cooling systems
- Graphical output like Mollier diagram or evaporator surface temperature plot

Innovation Pillars



SMARTER

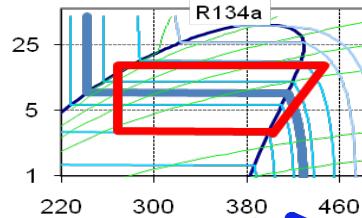


SAFER



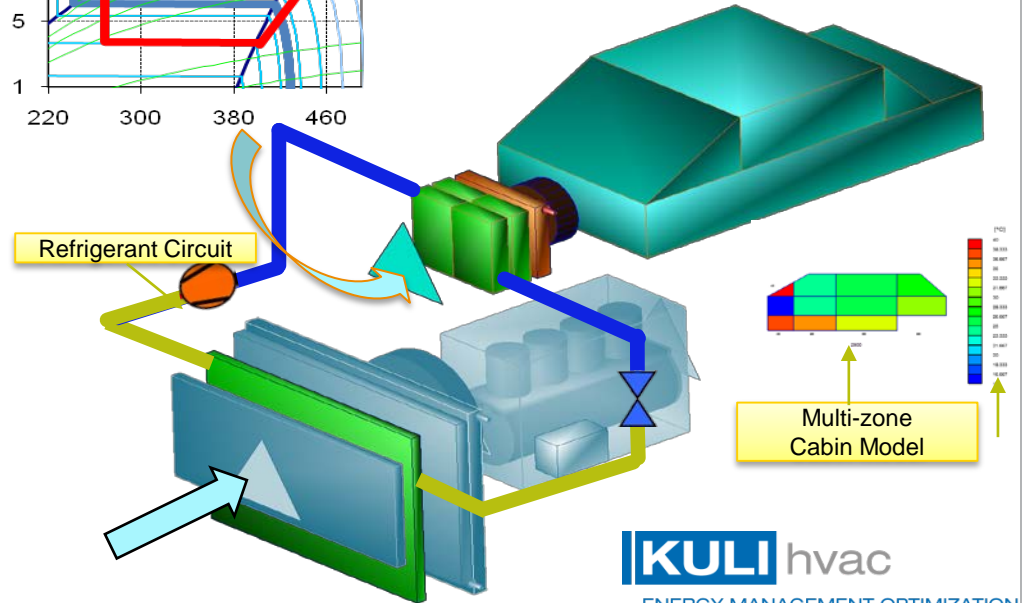
LIGHTER

Magna Powertrain



Mollier Diagram

Refrigerant Circuit



Multi-zone Cabin Model

KULI hvac
ENERGY MANAGEMENT OPTIMIZATION

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