



Hybrid Air-Conditioning for Electric Vehicles

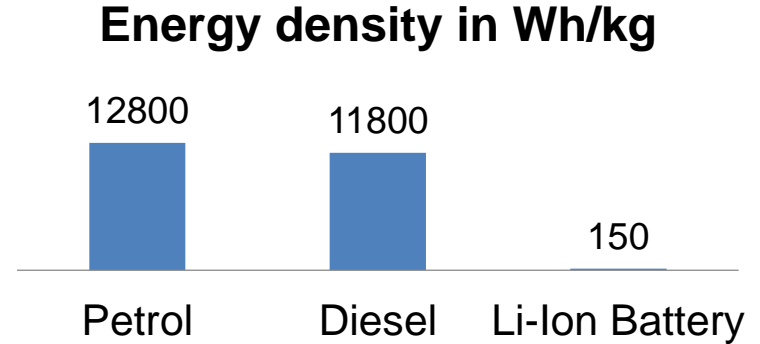
Institute of Technical Thermodynamics, RWTH Aachen University

SorptionFriends

Thermal challenges for e-mobility



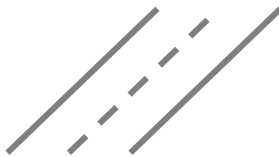
1. Missing internal combustion engine
2. Low energy density of batteries



Driving range

Trade-off

Thermal comfort



Electrical demand for heating

- Significant reduction by adding desiccant module (32 – 66 %)
- Also total demand reduction by using desiccant-assisted concept

