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CO₂ FTE transcritical technology performance vs previous solutions in real store conditions

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Store Details



Location:

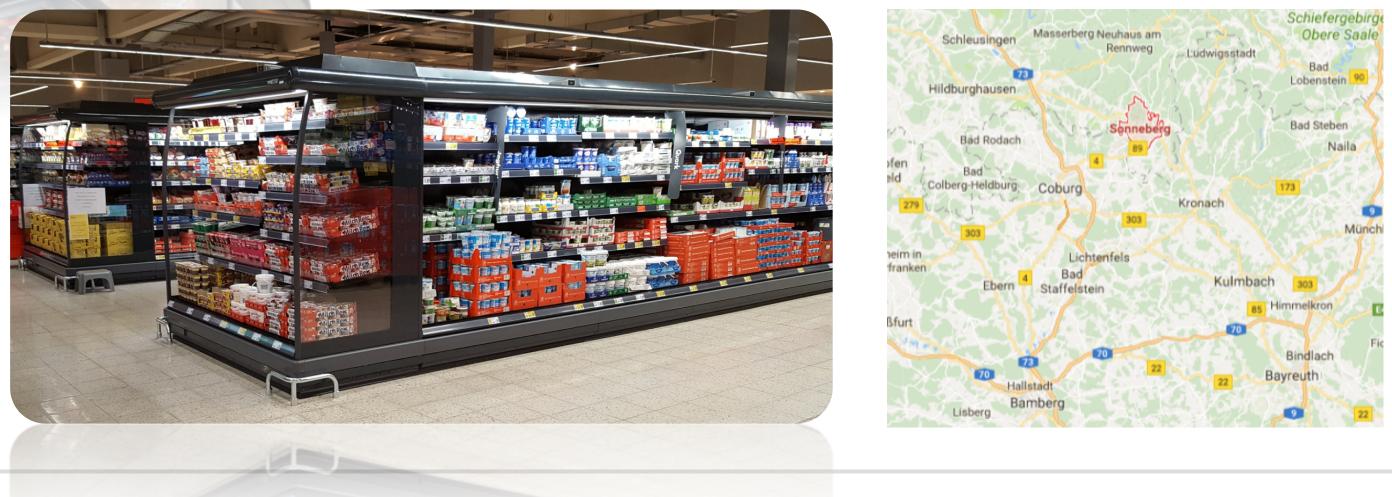
Sonneberg: (100km to the north of Nürnberg)

Sales area: 4100m²

Epta Products Turn Key:

- ۲ Plug-Inn, Serve-Over
- Cooling pack with various efficiency tools •
- Monitoring system •
- After sales and maintenance contract •



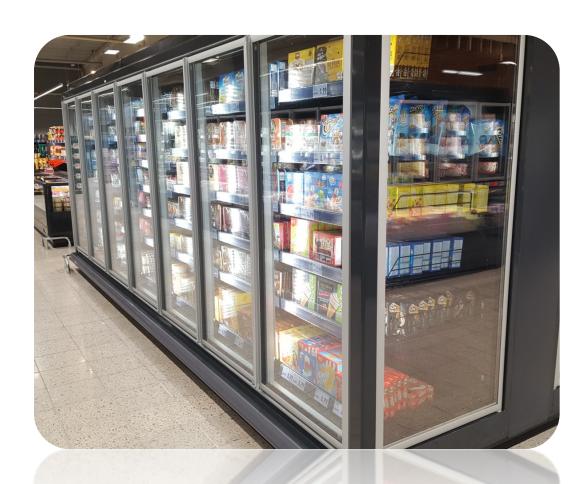


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Cabinets: Low-Temperature, Medium-Temperature,



Store opened in November 2016











Store Details

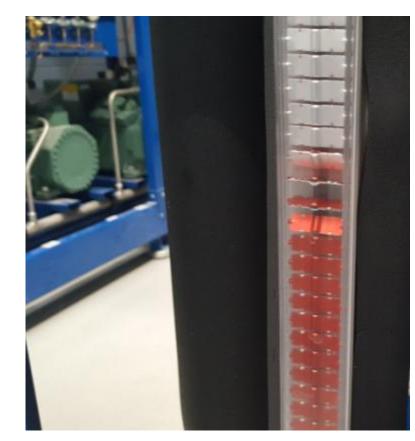
Pack size:

197 kW Medium Temperature 66 kW Low Temperature

Including:

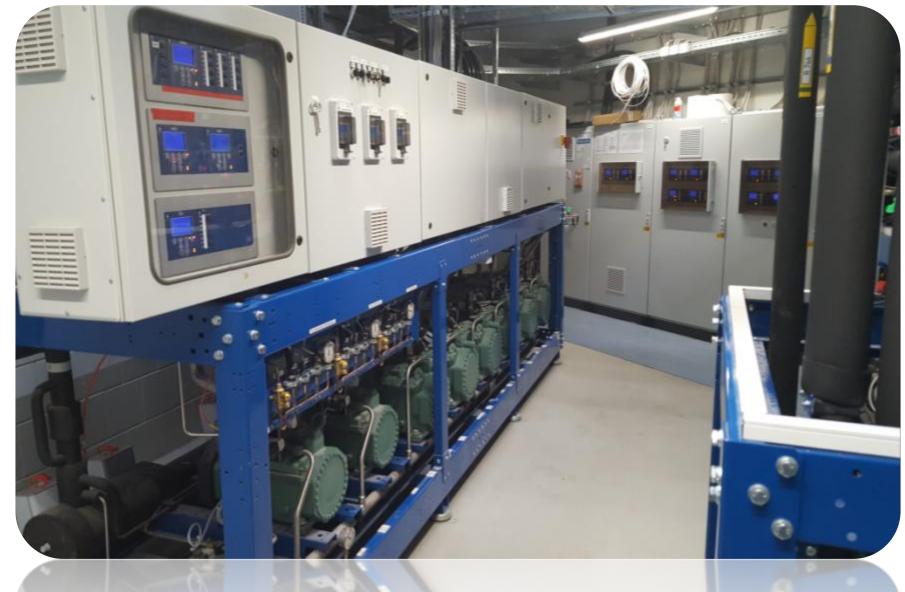
- Parallel compression •
- Venturi valve (gas ejector) •
- Different liquid ejectors •
- FTE-System: Full Transcritical Efficiency •
- Overfeeded evaporators •
- Internal heat-exchanger (Economizer) •









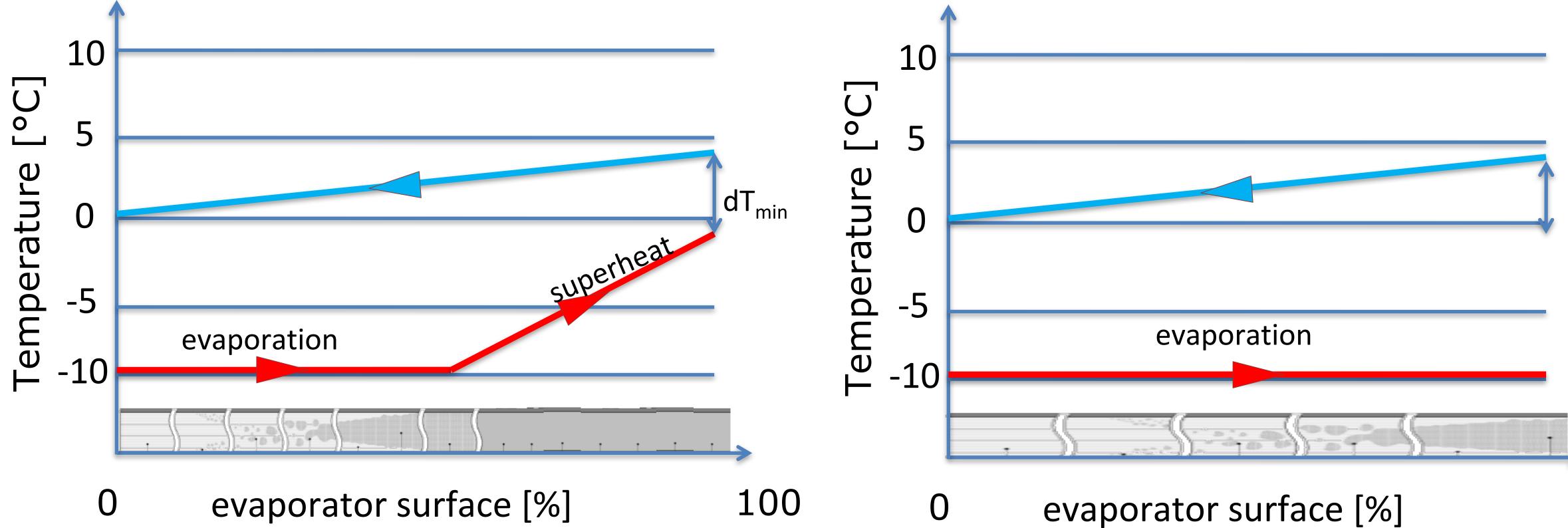








Superheating



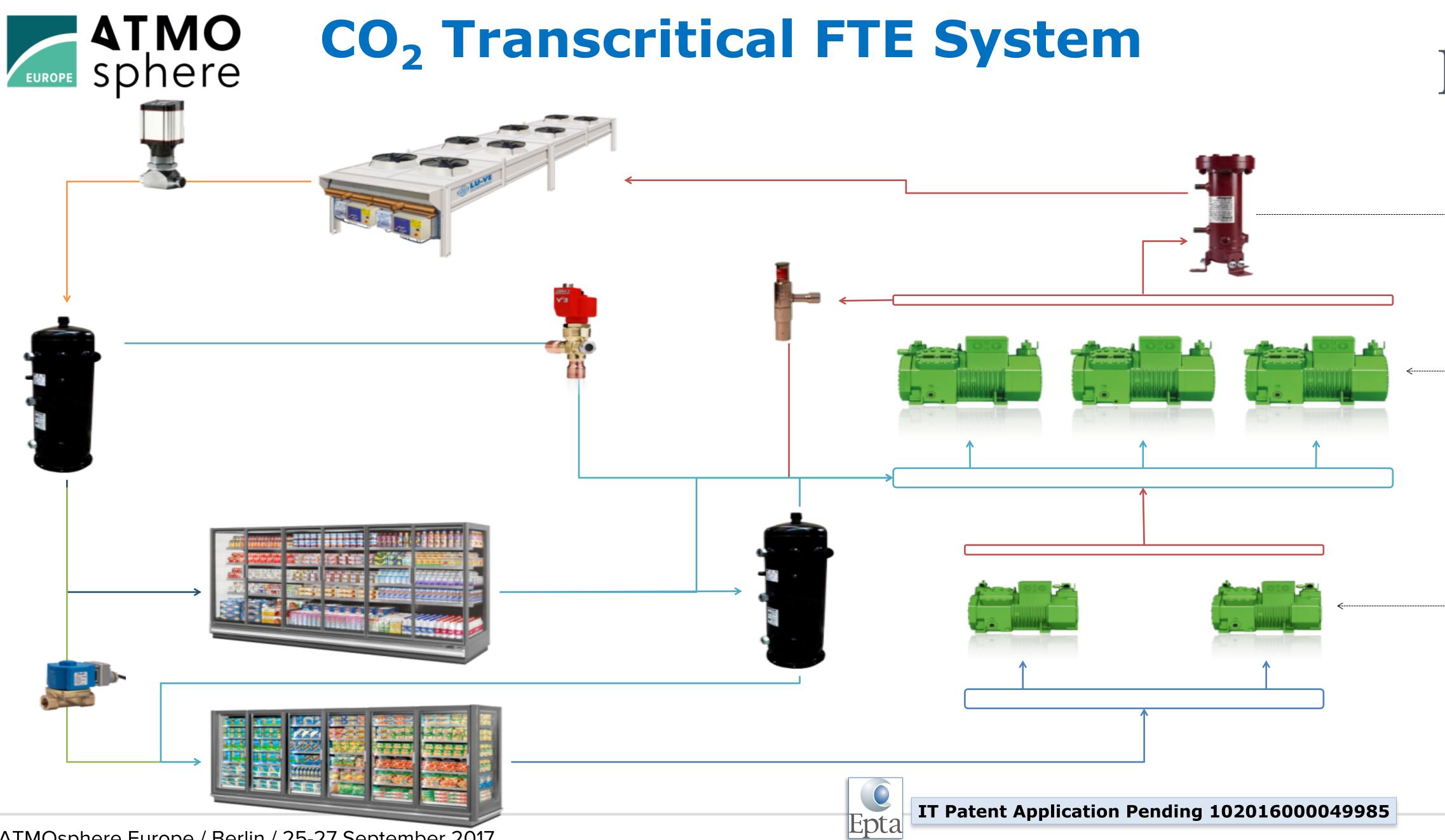
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Overfeeding



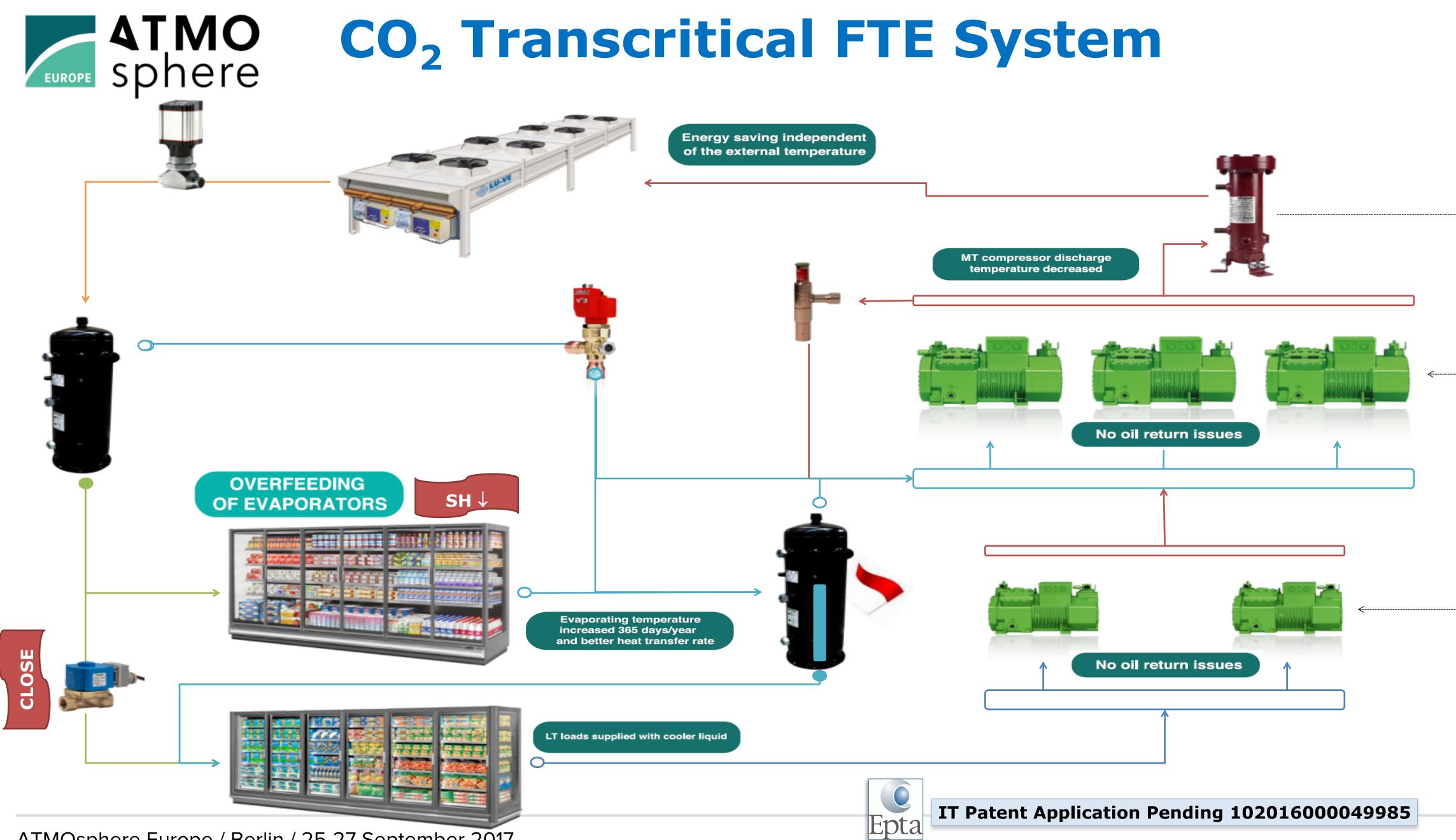








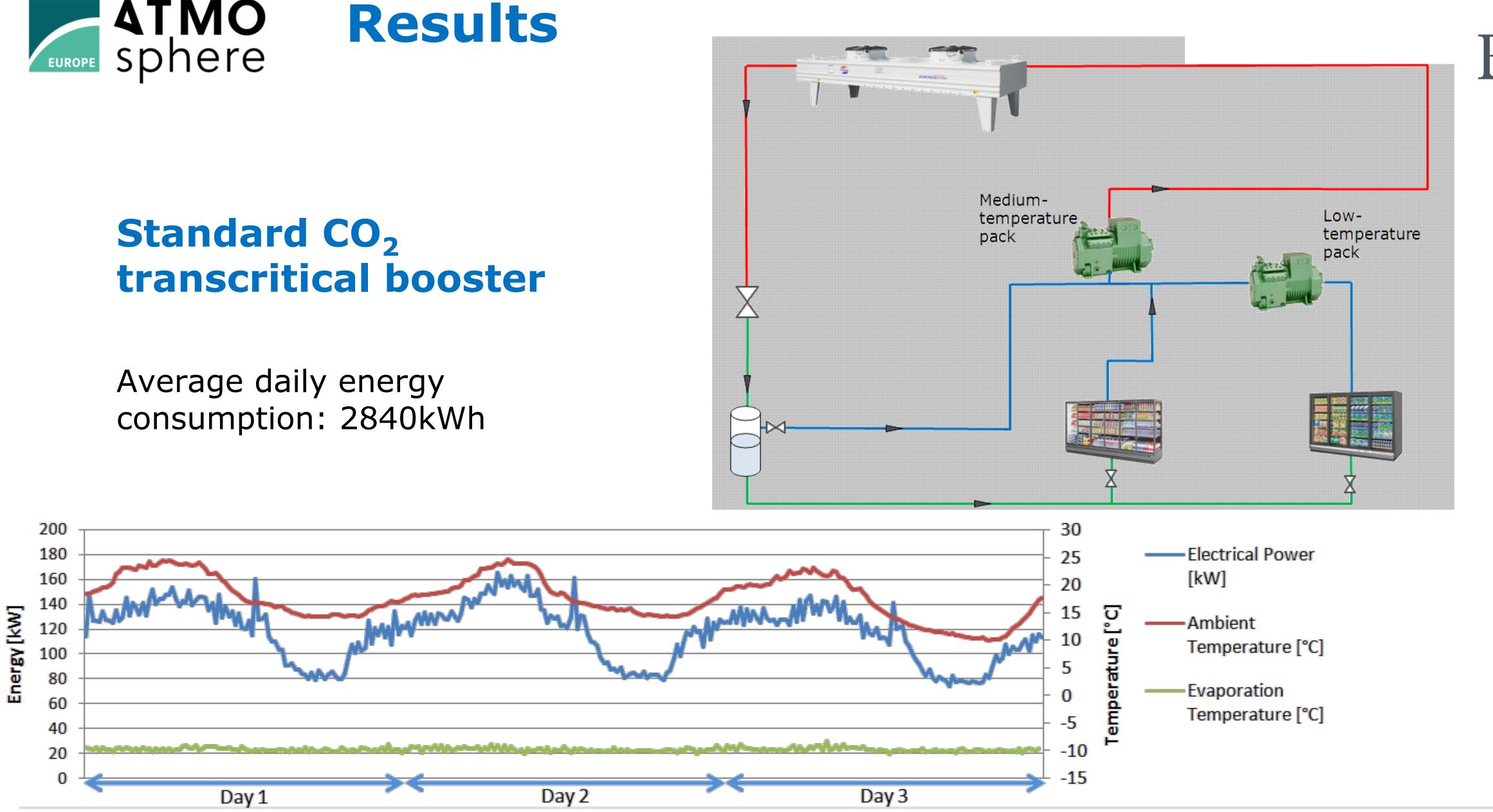






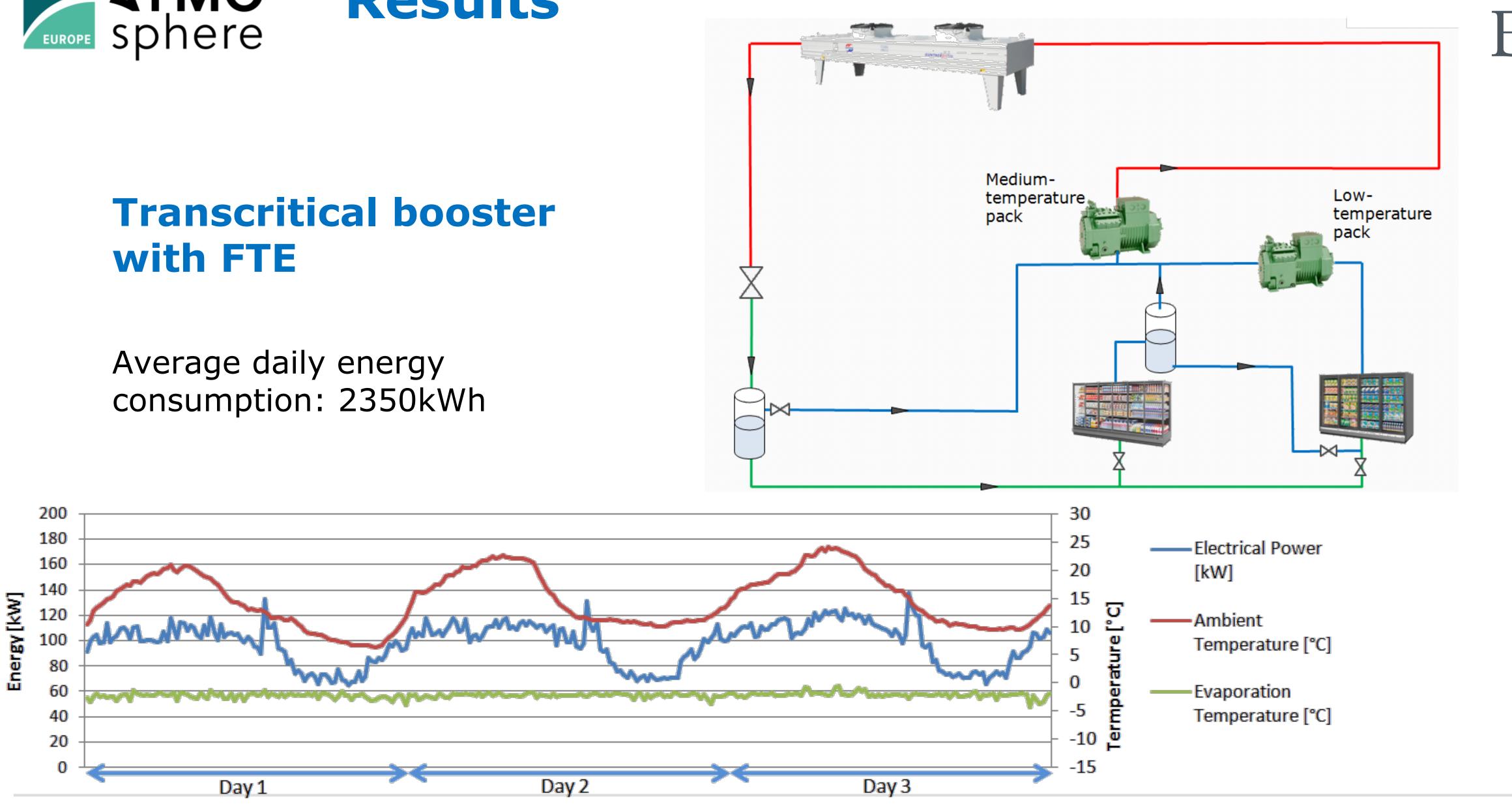






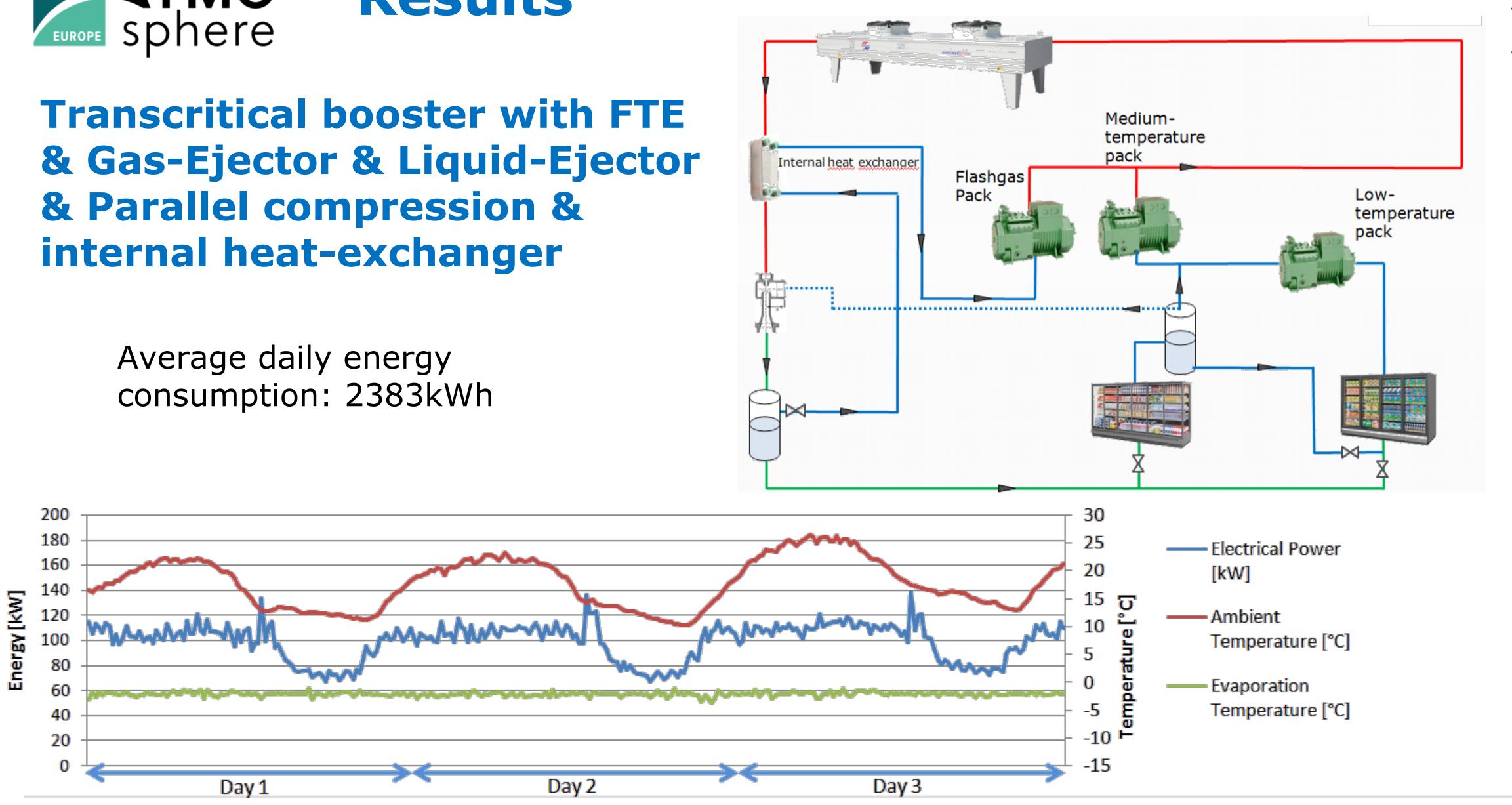






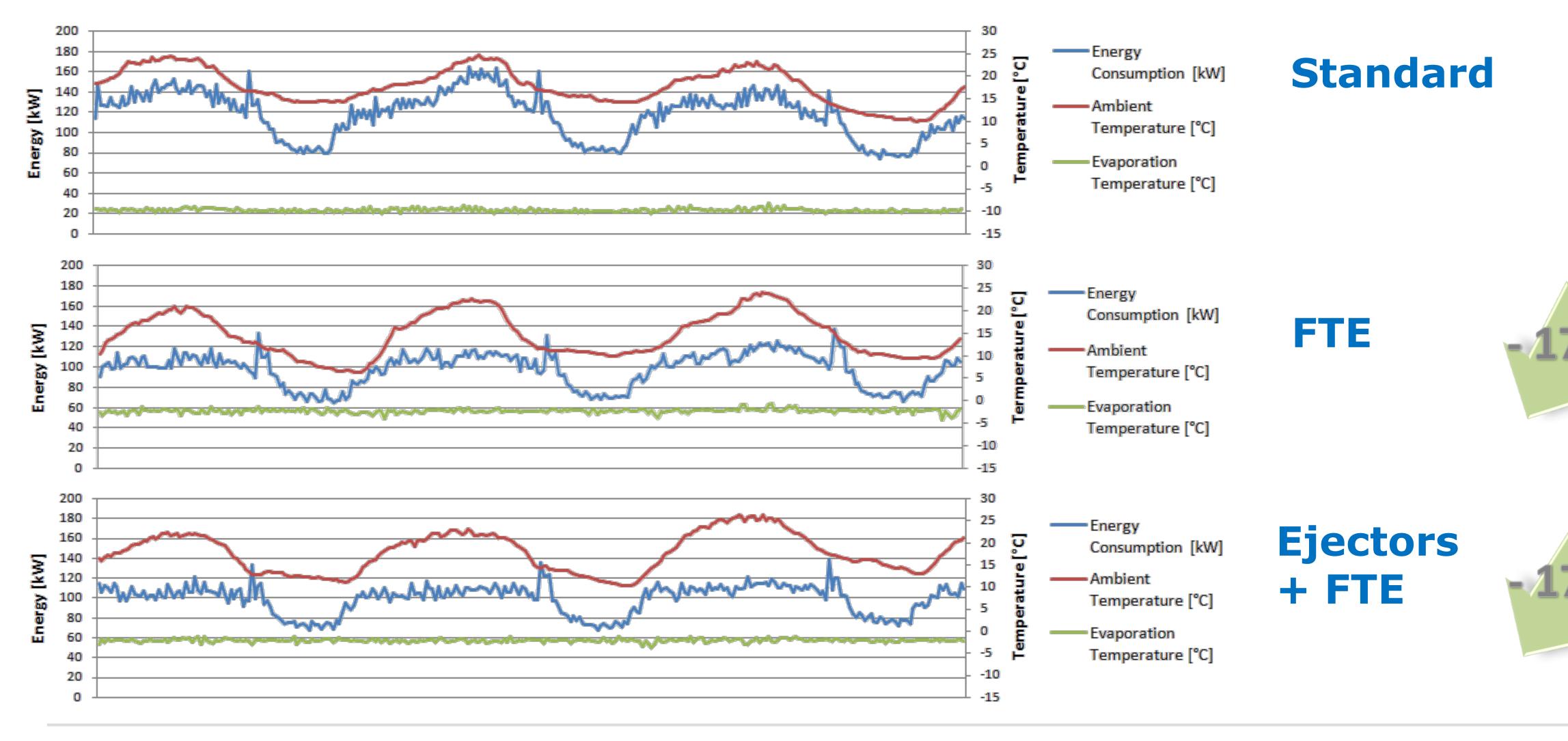
















FTE: Full Transcritical Efficiency

Simple: **Efficient:**

Industrialized:

Only receiver and bypass required climates and through the whole year

The future of natural refrigeration depends on systems that combine cost, energy saving and reliability in a simple design.

seen to be bridged.

FTE can really give a significant contribution to break down the barriers to a natural future in refrigeration.

- Energy savings independent from ambient conditions, in all Available now – everywhere; with a ROI < 3 years
- With CO₂ FTE SYSTEM the cost, performance and reliability gaps can finally be





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Thank you very much!

