



Business Case for
Natural Refrigerants

Increased plant durability, operational safety and efficiency by latest innovation TECO₂ conditioner

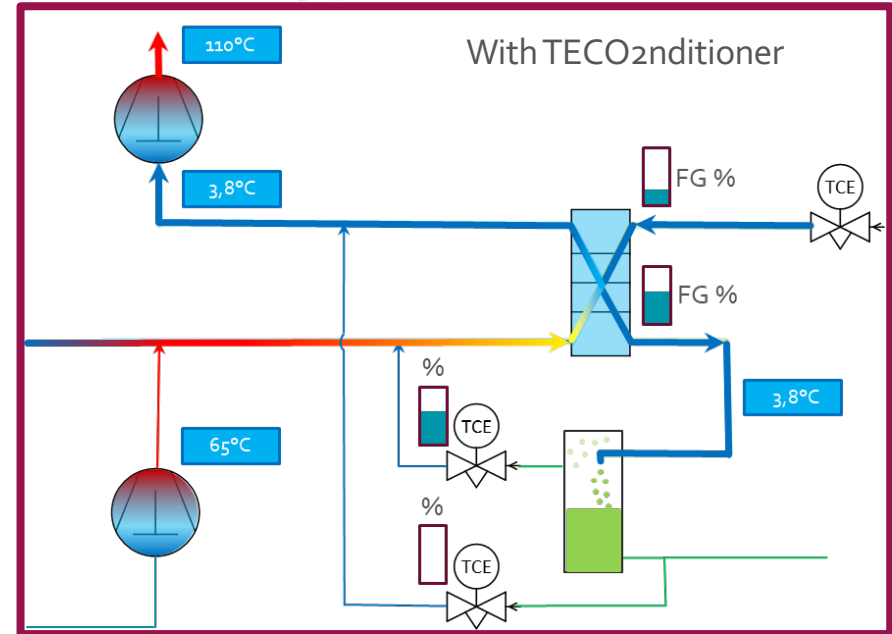
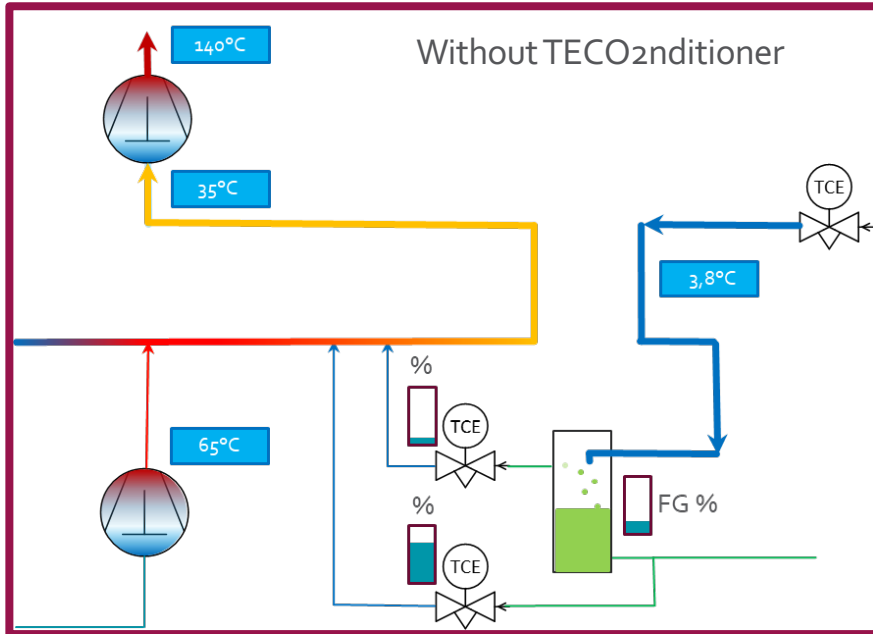
(applied for patent)

15-16/11/2022

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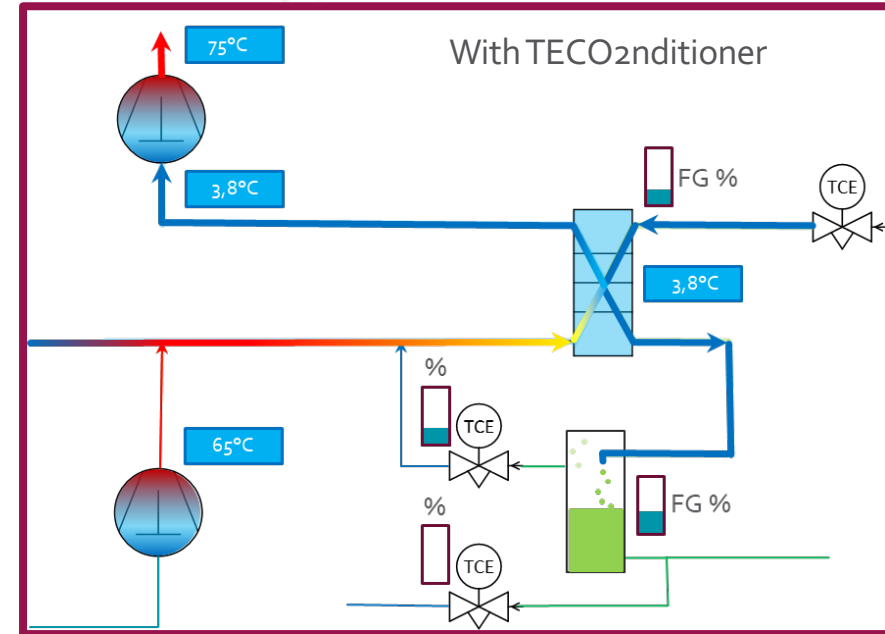
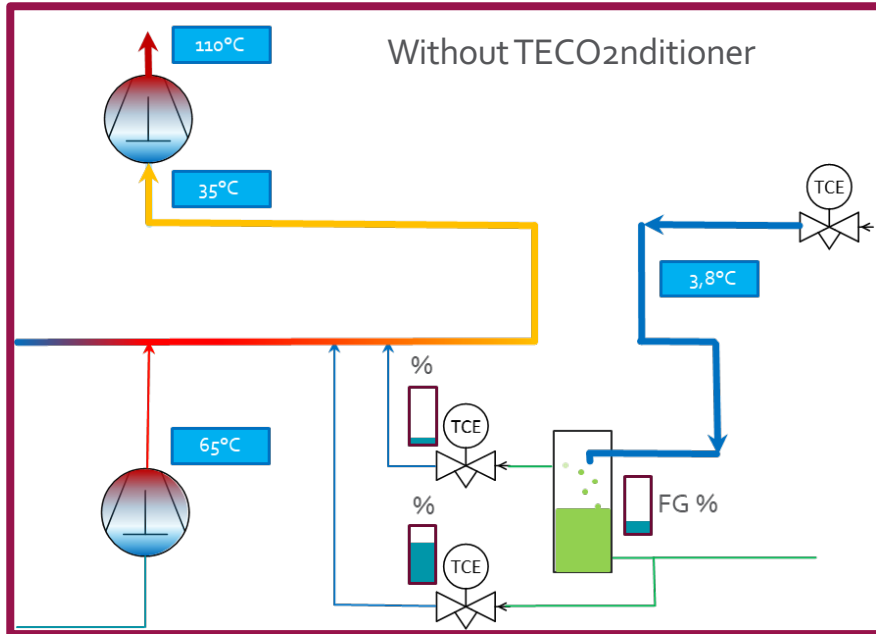
Technology (transcritical)

APPLIED FOR
PATENT



Technology (subcritical)

APPLIED FOR
PATENT



TECO₂ conditioner - Increased plant durability



- Improved stability of the system, due to constant operation conditions
- To reach optimal suction gas conditions at the inlet of the compressor (perfect conditions for an extended lifetime)
- Improvement of the Oil management
 - Optimal oil temperatures (even in Heat recovery mode)

TECO₂ conditioner – additional advantages

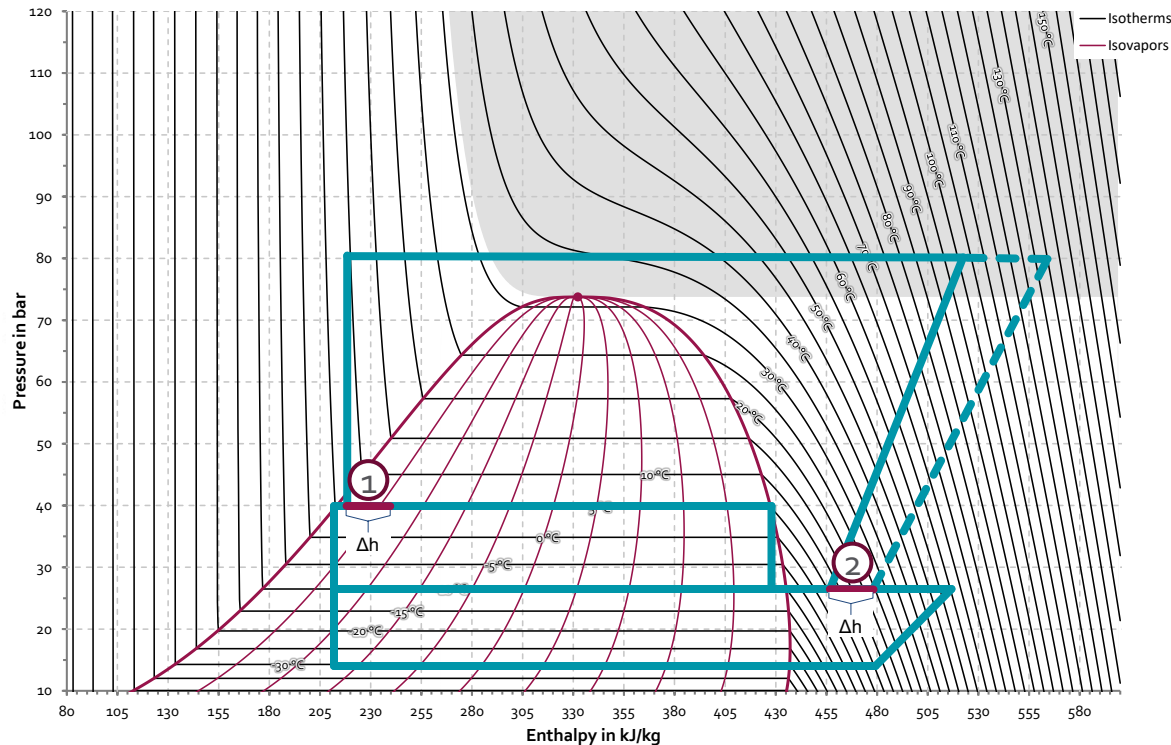
- No air-cooled desuperheater necessary
- No post injection required
- No additional control required
- No hot gas dump necessary
- No heat loss (heating capacity remain in the system)
- Increase of Efficiency



Lower costs, less complex, higher reliability

TECO₂ conditioner – benefits

R744



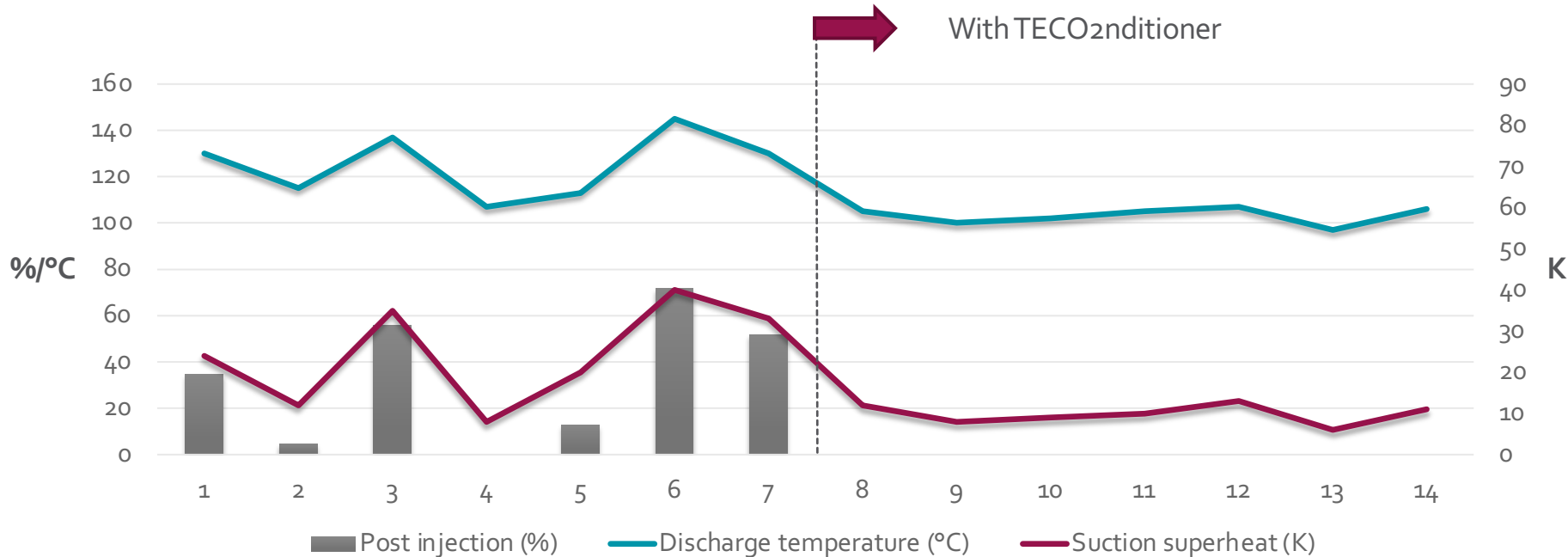
①

Due to the heat transferred from the MT suction side, the amount of flash gas is increased

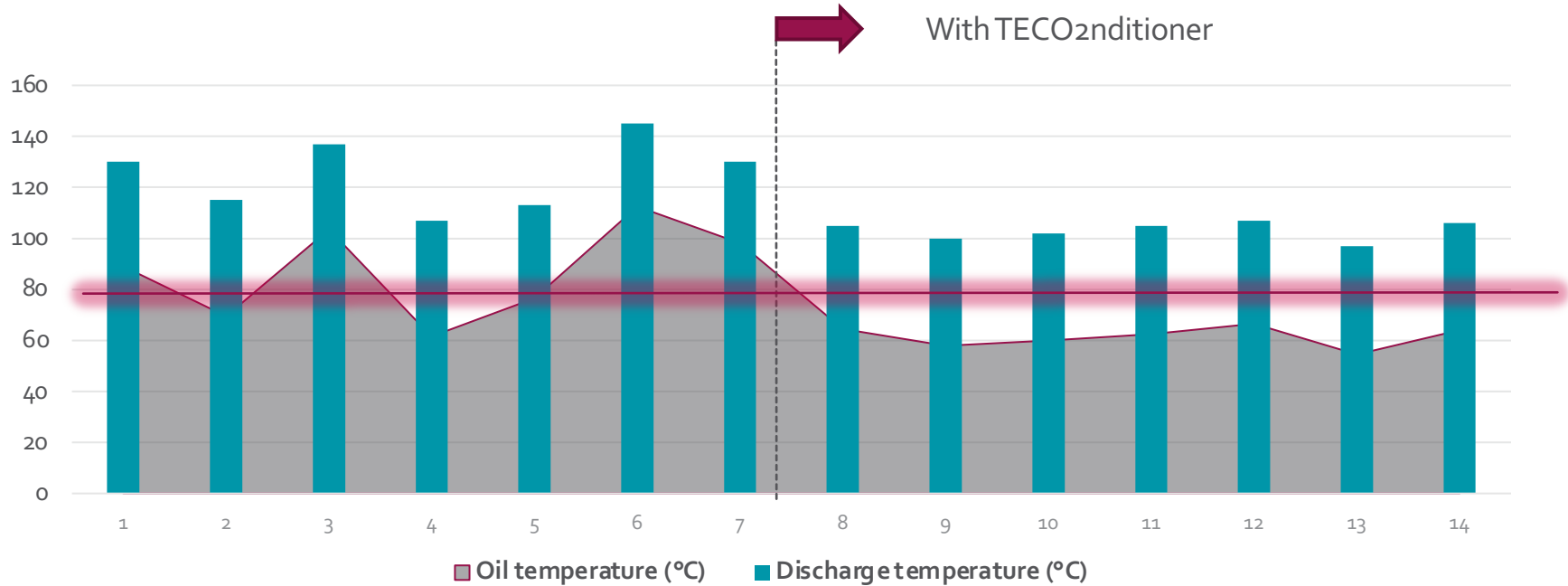
②

In consequence of the heat transfer inside the TECO₂ conditioner, the suction gas temperature is reduced. This result in a significantly lower discharge temperature without the demand of a post injection or any kind of regulation

TECO₂ conditioner - efficient, simple and safe



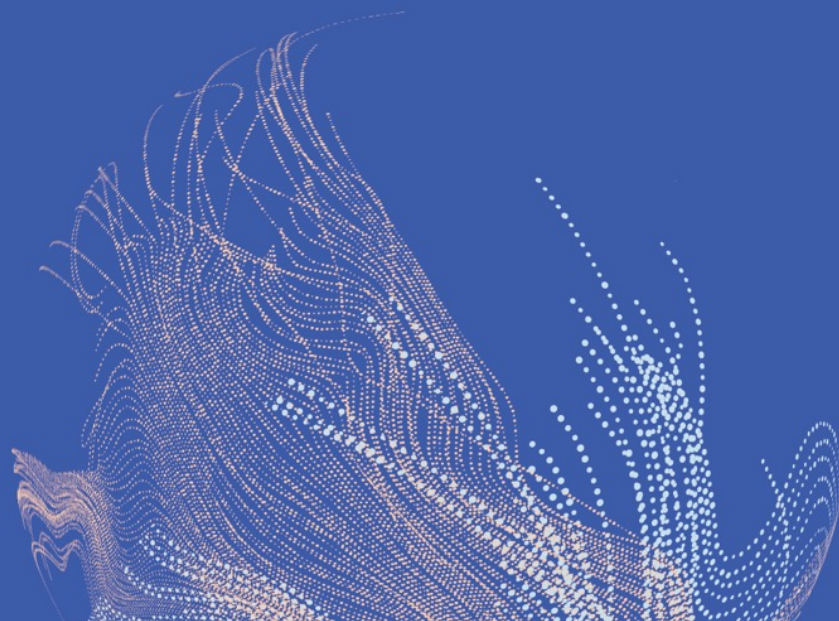
TECO₂ conditioner - efficient, simple and safe





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Thank you for listening.



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