



Natural refrigerants for commercial freezers

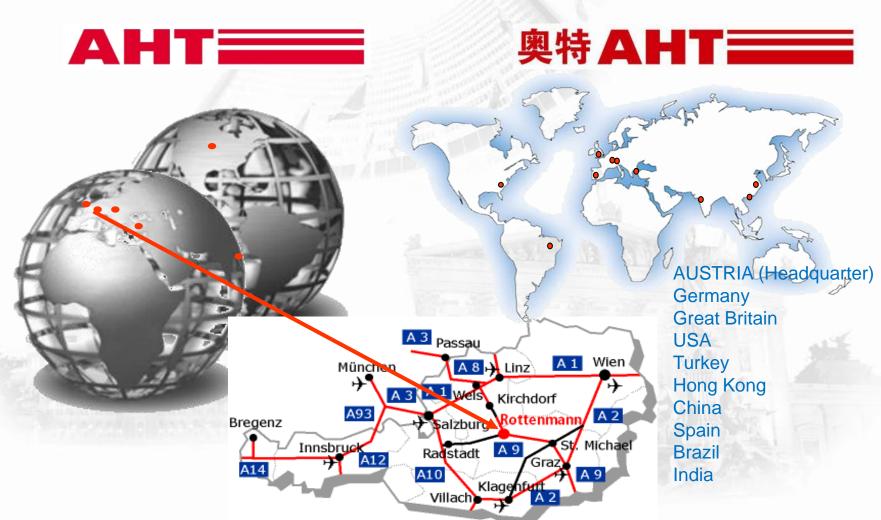
Practical experience

Reinhold Resch **AHT Cooling Systems, R&D Manager**





AHT Rottenmann AHT Group





Factories in Austria and China







Ice cream equipment





green.freshness.worldwide AHT Bottle cooling equipment





green. freshness.worldwide AHT Supermarket equipment





Supermarket installations worldwide worldwide



AHT's cabinets supplied with I

600.000 worldwide

3.000 Thailand

480.000 in Europe's supermar





Supermarket installations Key features

Key features in general

- stand-alone cabinets or banked together in an isle
- environmental friendly
 - low energy consumption
 - blowing agent for insulation: Pentane
- future proof technology
 - natural refrigerant
 - variable speed compressor
- connectable to store management systems
- for small, medium and big supermarkets suitable
- ✓ available now



Supermarket installations in Europe

Key features in Europe







Benefits of natural refrigerants

TEWI = total equivalent of warming impact

TEWI – influences

TEWI =

direct influences

Natural refrige (antsola)) +

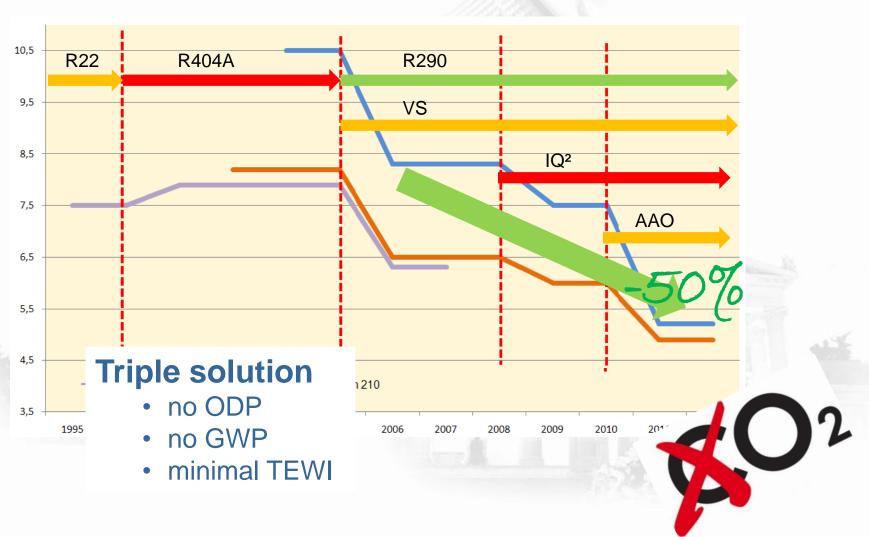
- indirect influences
 - nfluences (n x E x beta)
 - energy consumption

Reduction of the energy consumption





green. freshness. worldwide AHT Energy consumption in kWh/24h







Future Proof

Conclusion

technology and equipment is available now natural refrigerants (R290, R600a) are future proof R290 and R600a are the preferable refrigerants

R290 is the best alternative refrigerant

for the use in

- · ice cream cabinets
- bottle coolers
- commercial freezers



Thank you

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