

Supplier panel
the latest technologies
and future trends

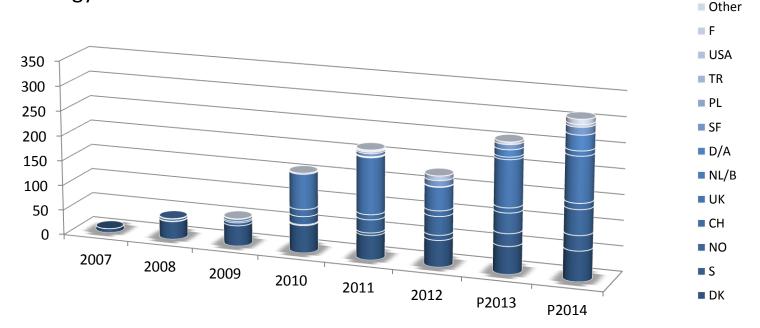
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Extended Geographic Stretch of Supply

- Soon 1.000 transcritical CO2 systems in more than 15 countries
- Growing interest in Central Europe
- 11 of Europe's TOP20 Retailers are installing transcritical CO2 systems
 - Many trials ongoing -> established solutions to crystalise soon

 UK, CH and Scandinavia: Transcritical CO2 systems are becoming the preferred technology





Touch Down on Technology Trends 1

Small capacity and Cost Optimised Requirements



3-10 kW with CO2 MT or LT, single temperature Single compressor units



40+10 kW with CO2 MT and LT dual temperature Max 5 compressors per unit



Touch Down on Technology Trends 2

SIGMA – all in one Advanced technology for better total performance

- Plug & Play Total Energy Management System
- Best in Class Energy Performance with Parallel Compression





Touch Down on Technology Trends 3

Warm Climate Solutions for Central and South Europe

- High pressure sub coolers
- Parallel Compression systems
- Water spray systems
- Adiabatic air cooling curtains





Conclusion

- The natural refrigerants technologies are throughout available and proven
 - Reliable, Efficient and Cost Effective in Supermarkets
- European retailers are ready to make the necessary technology implementation of natural refrigerants
- European Installation and Service companies are ready to make the necessary technology implementation of natural refrigerants
- F gas regulation matters!
 - Clear activity impact noted since European Parliament's Environment Committee

