

It's now time for...



solutions for europe
natural refrigerants

15-16 October 2013, Brussels



energy efficiency



eco friendly



SCM Frigo – 360° Natural Refrigerants Solutions



2005

CO₂ - Subcritical rack systems



2006

CO₂ – Transcritical Packs



2007

CO₂ - Pump circulation systems for medium and low temperature applications



2010

NH₃ – chiller with low ammonia charge for outdoor installation



2013

CO₂ - Condensing units range

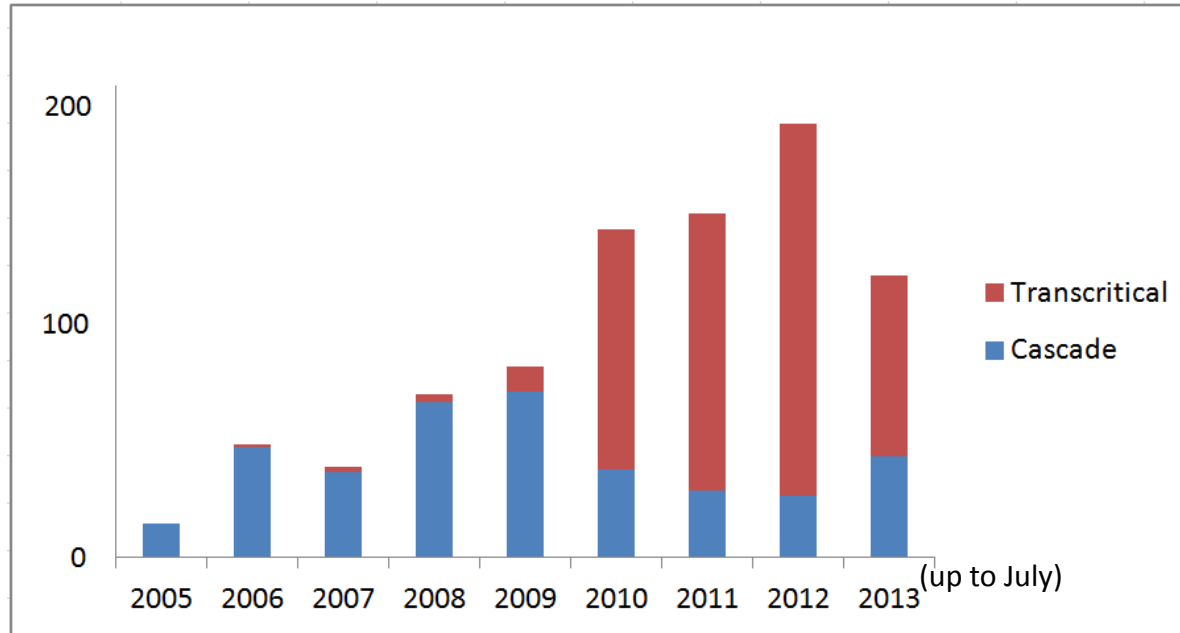
CO₂ - “Plug’n Cool” booster range with integrated gas cooler

NH₃ - New range of compressor packs





More than 800 CO2 units running so far !



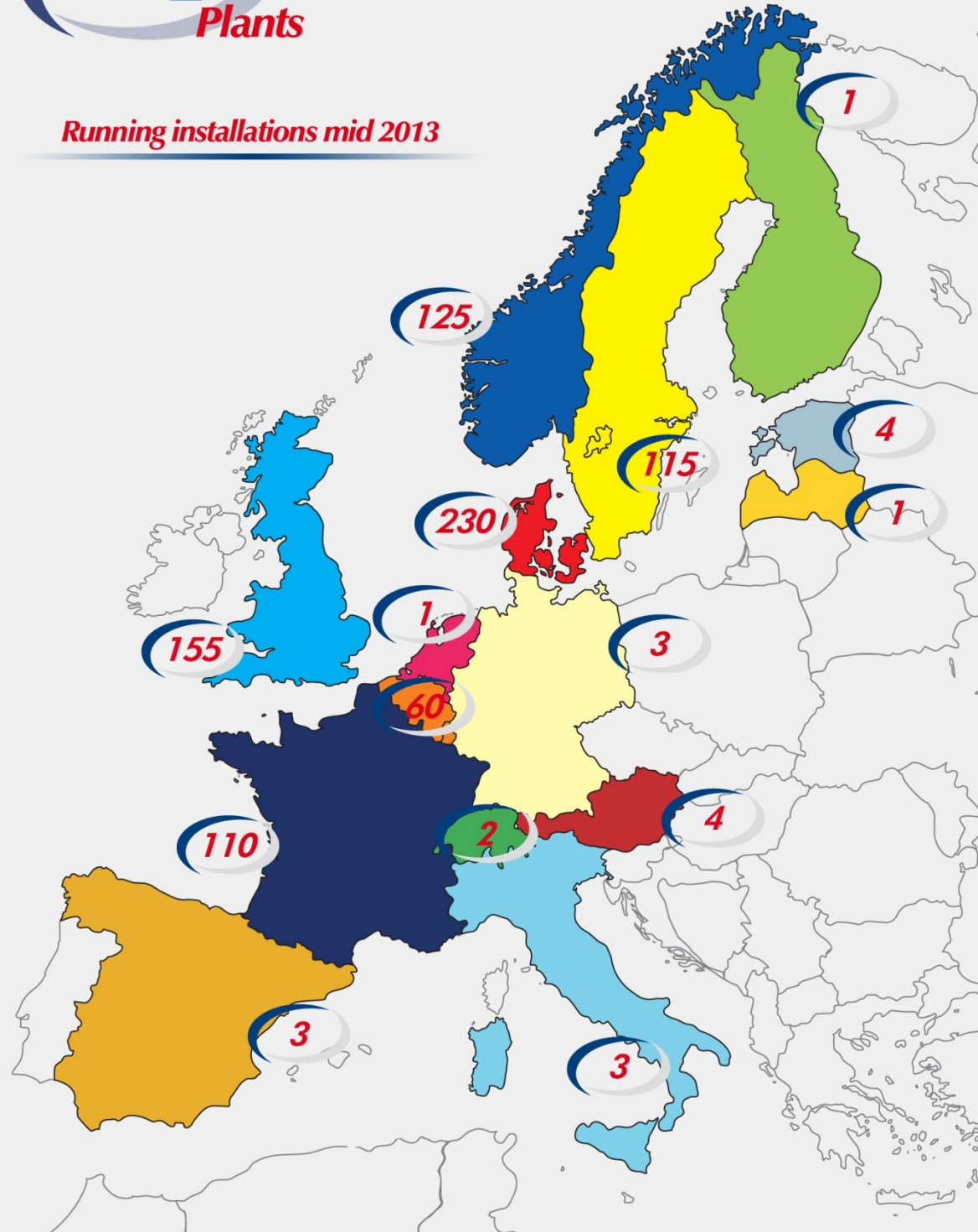
- Production area 7000 m²
- Today CO₂ represents almost **50% of our production**
- CO₂ production capability **average 8-10 unit / week**
- We have a **training centre** for tests and seminars
- **100% Customer support**





RUNNING INSTALLATIONS

Running installations mid 2013



last update July 2013



Supermarket / industrial:

Booster

- Standard and wide range of unit for indoor and outdoor installation available
- High efficiency especially in the northern Europe
- HR / AC system optimization
- Hot gas defrost for low temperature users available
- High reliability
- Optimization of transcritical cycle for warmer climate countries.





Supermarket / industrial:

CO₂ Pump circulation system MT – direct expansion LT:

- possibility to use CO₂ / NH₃ /low GWP refr. for condensation
- Easy management of the users and the plant room
- More efficient in high temperature climate countries
- High reliability

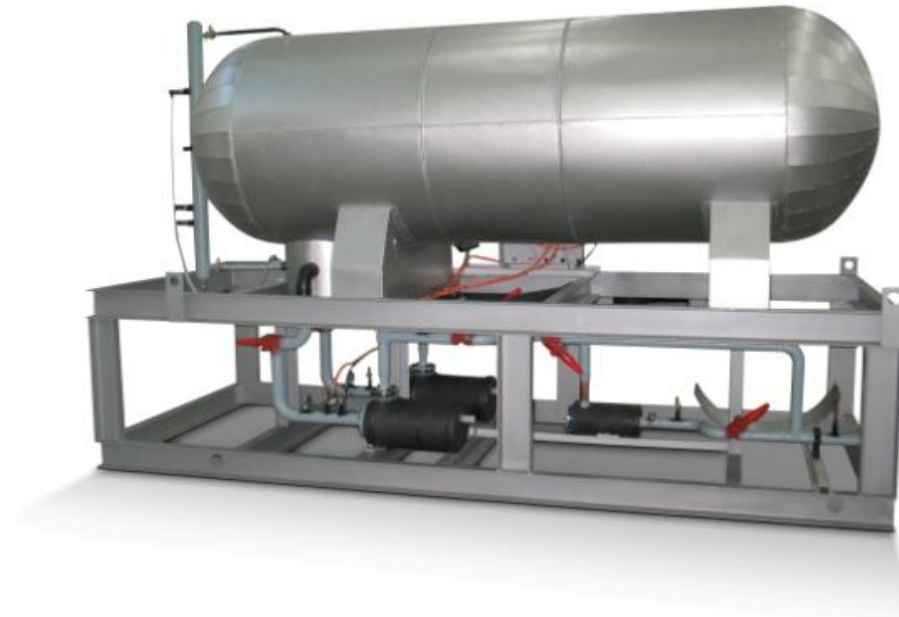




Industrial (spiral freezer applications):

CO₂ Pump circulation system LT:

- Very high efficiency compared with any other system
- possibility to use CO₂ / NH₃ /low GWP refr. for condensation
- oil management more challenging





- CO₂ is a reality in the European Retail market
- No single refrigerant is ideal for all applications. To make the transition of natural refrigerants possible, in the largest scale, we need to be able to combine natural refrigerants (CO₂ -NH₃) to target the different applications.
- Safety aspects are still a limit in the natural refrigerant application: training and information for customers, contractors and service providers are needed more and more.
- Legislations:
As legislation is more focused on environmental and efficiency aspects, this should stimulate end users and manufacturing industries in investing in new technologies to enable natural refrigerant applications to expand all over Europe.



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Thank you very much!