

CO₂ systems are sweeping through Holland

Steven Lobregt

TNO Institute of Environmental Sciences Energy Research and Process Innovation, Department of Refrigeration and Heat Pump Technology, P.O. Box 342, 7300 AH Apeldoorn, The Netherlands
S.Lobregt@mep.tno.nl

At the end of 2002 over 10 industrial refrigeration based on CO₂ systems will be sold in the Netherlands. For cold stores with a refrigeration capacity over 500 kW, CO₂ as refrigerant is leading the market. For new systems over 80% is based on CO₂.

What are the moving spirits to this growth?

1. Financial support by the government to achieve the Kyoto agreement on non-CO₂ greenhouse gasses.
2. Safety legislation with restrictions to ammonia systems.
3. Phase out of R22 in combination with poor performances of new halocarbons.
4. Product safety.
5. Strong market introduction campaign by government, contractor, component manufacturers and R&D institute.

The paper will include a description of a realized CO₂ system in practise as an example. The moving spirits to invest in CO₂ will be worked out in more detail.