

Experiences from CO2 cascade plants

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ABSTRACT

Here will be discussed experiences from different aspects of installed CO2 systems. The focus is on the low temperature stage in a cascade system. During the last couple of years a change of refrigerants have started in European countries. The revival of the old refrigerant CO2 is slowly happening in both supermarkets and industrial installations.

Many questions that were formulated before the first plants were designed have now been answered. Examples are handling of pressures at stand still-defrosting-pressure levels. Installations are today both lower in first cost and many times also with lower running costs than the old workhorse ammonia overfeed.

There has been some hindrance from safety standards but also this is slowly changing. The paper will give an overview of technology and the development that has taken place the last couple of years.