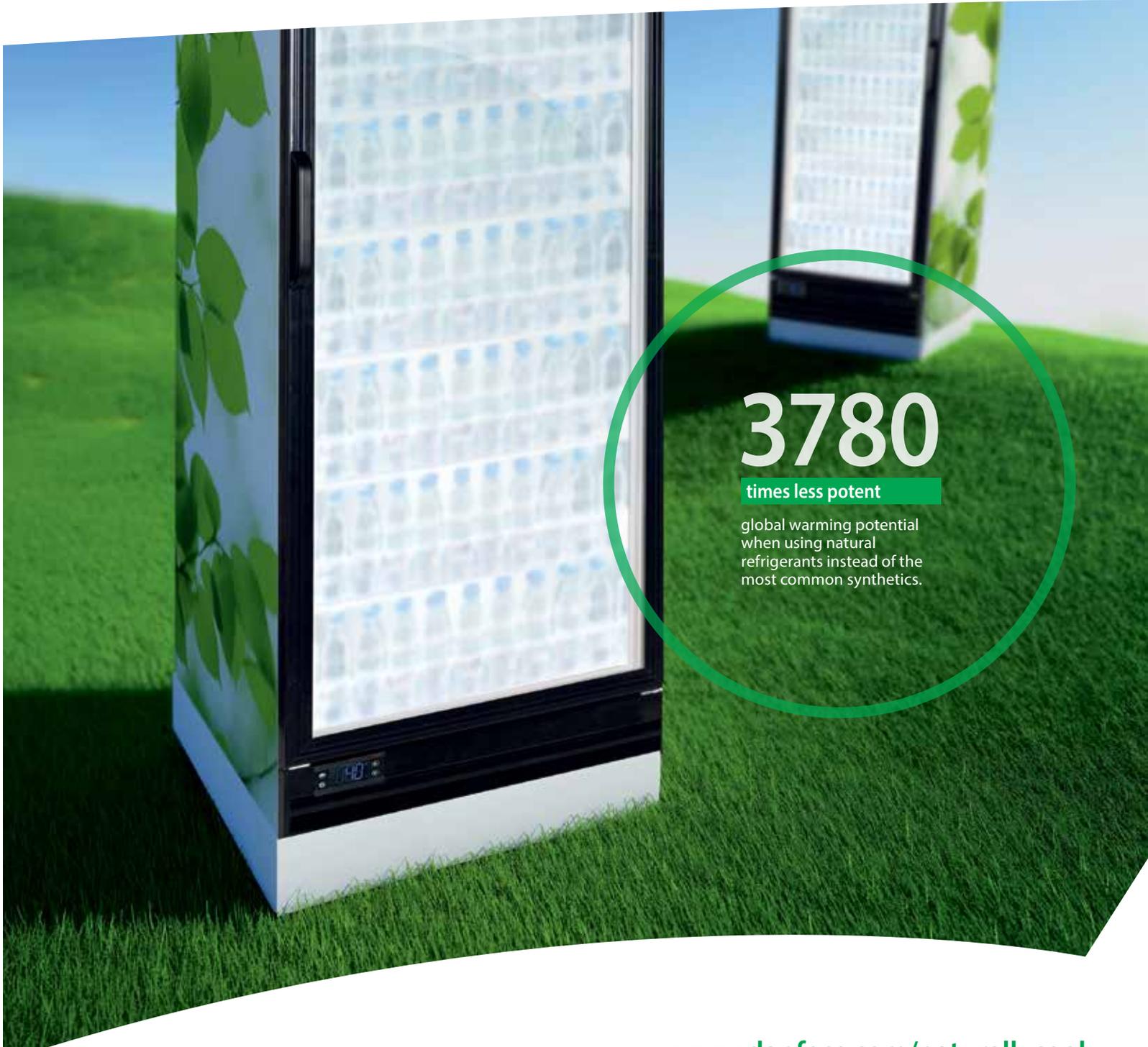




Get ready to expand your portfolio with natural refrigerants



3780

times less potent

global warming potential
when using natural
refrigerants instead of the
most common synthetics.

Hydrocarbon components



Thermostatic expansion valve (TD1):

A thermostatic expansion valve is a quick and easy way to improve both the efficiency and the lifetime of your system. Savings of approximately 10% can typically be achieved. The TD1 reduces the number of on/off cycles of the compressor to increase the lifetime. Also, it ensures stable cabinet temperatures under varying ambient conditions. Weeks of laboratory testing to find optimal capillary dimensions are short-circuited by this simple component.



Filter drier (DML):

The Danfoss Eliminator 100% Molecular Sieve filter drier efficiently prevents early failure and breakdown of your system. Eliminate the grief and headaches of costly claims by installing a filter drier that keeps water away from the oil.



Cartridge control (ACB):

The ACB cartridge pressure switch is the most cost-effective way to protect your refrigeration system from excessive pressures. Without it, you are gambling on the lifetime of the compressor. The ACB simply switches off the compressor if it senses that the pressure is becoming too high – to avoid oil burnout or even worse, broken valves.

CO₂ components



Filter Drier (DMT):

High concentrations of water in CO₂ systems may form strong acids that can lead to breakdown of compressor oils, greases, and other compounds in the system. The DMT 100% molecular sieve filter drier removes the moisture inherent to the CO₂ charged in the system. Precipitates or coagulants can clog orifices and capillaries leading to breakdown of the system. The DMT also filters out any particulates to ensure smooth flow in the entire system.



Cartridge Pressure Switch (CCB):

The CCB cartridge pressure switch, is a high pressure cut-out designed specifically for CO₂. Cut-out occurs at 130 bar (1885 psi) saving the system from excessive discharge pressures. The switch cuts in when the pressure drops below 110 bar (1595 psi). This is an essential safety for every CO₂ system.

Controllers and accessories for Hydrocarbon & CO₂ applications



Electronic Refrigeration Controller (ERC):

ERC is the new and most advanced generation of parametric controllers in the market, designed to increase energy efficiency and reduce production costs. It is the perfect match for any application in light commercial refrigeration.

Its IP rated body, advanced materials and internationally approved hardware design can be used in almost any climate globally, indoors as well as outdoors. It is IECEx approved for use with hydrocarbon refrigerants and can be used in all light commercial applications.



Accessories:

Danfoss temperature sensors offer high accuracy in temperature measurement and close tolerances ensure improved control. The sensors feature a plastic moulded sensor case and insulated connecting cable. They change resistance with temperature in a manner compatible with the controller software. They are fully compliant with the tolerance requirements according to IEC 60060-1.

Danfoss IP65 rated Remote Spindle is ideal for refurbishment markets where mechanical controls need to be replaced with energy saving solutions.

Whichever refrigerant your customers want you can turn to Danfoss for expert knowhow

Natural refrigerants are becoming increasingly popular as companies are looking for ways to reduce their impact on the environment. With Danfoss by your side you are perfectly capable of accommodating every customer specification. Our range of refrigeration solutions comprises components specifically developed for the handling of hydrocarbons and CO₂.

Hydrocarbon

Hydrocarbon refrigerants, such as R290 (Propane) and R600 (Iso-Butane), offer the highest thermodynamic efficiency of all refrigerants and the lowest climate impact over the entire life cycle. Danfoss' hydrocarbon-dedicated components are ideal in bottle coolers, offering safe and excellent operation. Every risk associated with the use of hydrocarbons has been removed as all Danfoss components used with flammable or lightly flammable refrigerants are ATEX and IECEx approved.

CO₂

CO₂ is an environmentally benign refrigerant. Although it is ideally used in milder climates or in in-store equipment, it can in fact be used globally. Backed by more than 10 years experience in the development and testing of CO₂ products and systems, Danfoss is today the leading supplier of transcritical CO₂ components and know-how. High pressures, transcritical operation, material compatibility and moisture sensitivity are all challenges that need to be overcome.

Whatever you need...

Danfoss portfolio of components for light commercial appliances obviously includes a wide variety of solutions for synthetic refrigerants. You will also find all the accessories required to fine tune your system – regardless of the preferred refrigerant. Accessories include sensors, remote spindle, remote display, door switch and fan speed controller. Go to www.danfoss.com for a complete overview.





Thinking about Climate Sustainability

Danfoss encourages the industry to continue to speed up its contribution to a cleaner environment and a cleaner image! We are committed to improving the climate by providing the world of refrigeration and air conditioning with greener technology.

For many years, Danfoss has focused on natural refrigerants (Low GWP) for many years and today boasts a broad product range for NH₃, HC and CO₂ refrigerant applications. Many of the already available technologies, products and services from Danfoss Refrigeration and Air Conditioning can save energy and minimise the Green House Gasses (GHG) emissions. And we continue to develop new components suitable for natural refrigerants.



Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without consequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.
