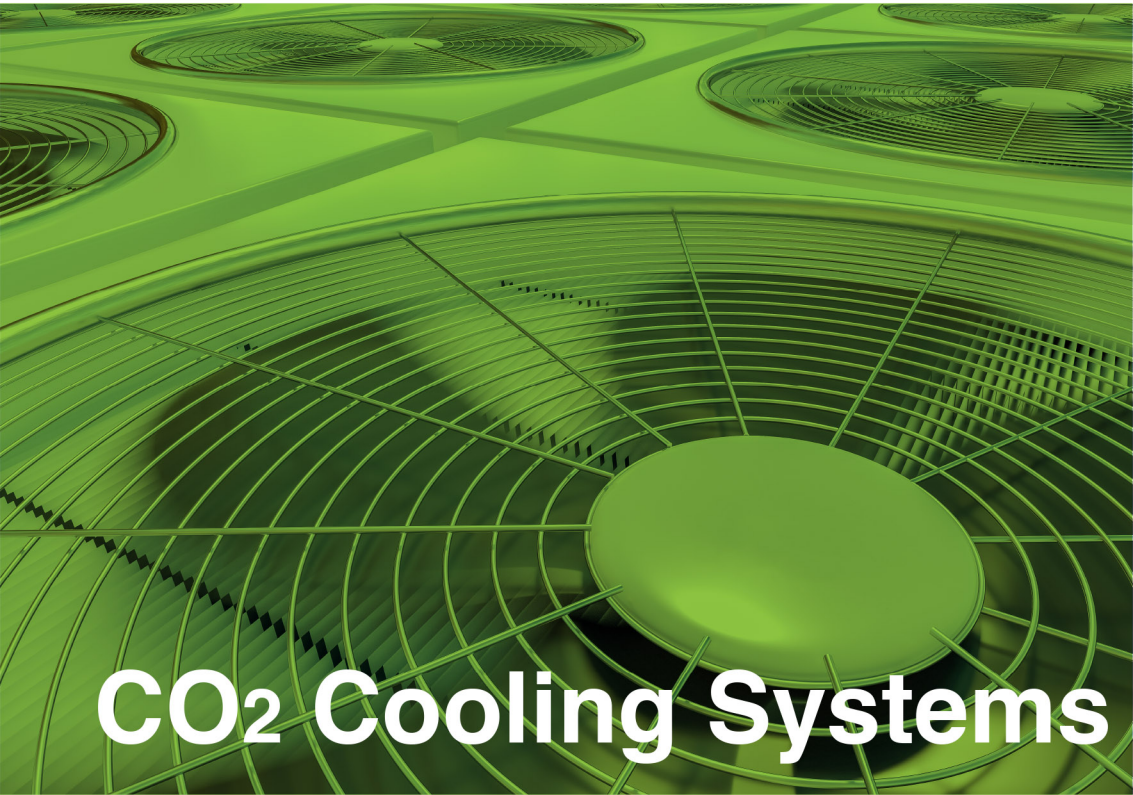
ddcooling

air conditioning | refrigeration | cold stores | co_2 refrigeration



CO_2 Cooling Systems

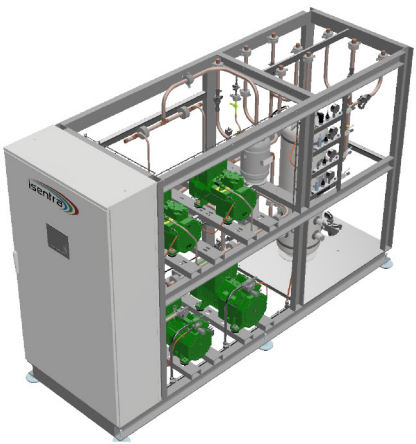

Save up to 20% on energy by
replacing HFC's with CO_2

Why CO_2?

1 Sustainable Choice
Insignificant Global Warming Potential (GWP)

2 Properties
High efficiency, small volume, high capacity

3 Cost Effective
Widely available, low cost



From an environmental perspective, CO_2 is a naturally occurring substance and is abundant in the atmosphere.

CO_2 is a very attractive refrigerant, as it has a ODP (Ozone Depletion Potential) rating of zero and a GWP (Global Warming Potential) rating of 1.

As the Global Warming Potential value, for HFC refrigerants are several thousand times higher than for CO_2. Any potential leakage of CO_2 gas from a refrigeration system, is consequently several thousand times less damaging to the environment than the release of any HFC gas.

CO_2 is suitable for both heating and cooling and maintains high level efficiency, across the whole temperature range. Ideal across both commercial and industrial applications, from frozen/chilled storage, process cooling through to heat recovery.

CO_2 provides the lowest cost of ownership for end-users. This is due to high volumetric efficiency, low power consumption, and refrigerant charge reduction.

Environmental Impact

Utilising a natural refrigerant within your new cooling system, can help reduce energy costs across your building and help to achieve your environmental objectives.

When comparing system efficiency, it is normal for a CO_2 system to provide an efficiency level that can be in excess of twice the standard coefficient of performance (COP), that could be expected from a HFC refrigerant.

BREEAM is an international scheme that provides independent third party certification of the assessment of the sustainability performance of individual buildings, communities and infrastructure projects. Utilising CO_2 as a refrigerant can also greatly assist in achieving BREEAM points, to contribute to a high standard of overall performance.

Global Warming Potential (GWP) Comparison Rating

CO_2 = 1 | **Typical HFC = 1600**

How we work

1. Concept
Initial discussion to identify your requirements &

2. Design
Presentation of design

3. Benefits
How will the new proposal benefit the business in terms of cost & energy

4. Implementation
Installation of system & project management

5. Commisioning
Testing, validation &

6. Aftercare
Client training & aftercare service program including 24/7 on call support

With an established reputation and client base across the UK, DD Cooling are the number one choice for all your CO_2 refrigeration requirements and installations nationwide.

From small domestic projects through to large scale industrial and commercial installations, DD Cooling deliver full turn-key CO_2 refrigeration packages.

With a qualified and dedicated team, we support you through the entire process from design and quotation of your refrigeration system to installation, maintenance and aftercare support.

Give us a call to discuss your next project on 01772 780806

Ribble Farm Fare
FRUIT AND VEGETABLE SPECIALISTS

Case Study & Testimonal

"As part of our ongoing expansion plan at Ribble Farm Fare in Preston, we needed to increase the capacity at our facility. We were looking to build a new cold store, to not only house our fresh produce, but to also help reduce our energy usage that could offer cost saving benefits to our business.

Following a meeting with DD Cooling and hearing the benefits of CO_2 Refrigeration system over a standard refrigerant we decided to install a CO_2 system throughout the new facility. DD Cooling handled the fit out for our new 56m x 28m building, including the cold store build to maximise storage area and the installation of a CO_2 Pack with ceiling mounted evaporators.

The current facility is showing excellent cooling throughout the complete store while delivering energy savings against a comparable standard HFC system. CO_2 cooling is a must for any future projects at Ribble Farm Fare."

Richard Coulston - Managing Director
Ribble Farm Fare

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