

Use Case

# Sustainability goals achieved

Organic food retailer chooses CO<sub>2</sub> refrigeration unit for energy efficiency and environmental friendliness



## Background

An organic food retailer with a strong focus on sustainability operates several stores with a wide range of fresh products – from fruit and vegetables to meat and bakery products. To meet its environmental goals while ensuring the freshness of its products, the company was looking for an efficient and environmentally friendly refrigeration solution.

## The Challenge

Increasing demands for the storage of organic food required a space-saving, flexible and future-proof refrigeration system. Energy efficiency and environmental friendliness were key selection criteria, as the company wanted to run its stores in a sustainable manner while remaining economical.

## The Solution

After a thorough analysis, the organic food retailer chose the \*carbo-Line refrigeration solution, which perfectly met their requirements for efficiency and sustainability. The space-saving design made it easy to integrate, even where space was limited. Thanks to the environmentally friendly refrigerant with a low GWP value, the solution contributes significantly to the environmental goals.

In addition, the CO<sub>2</sub> chiller with optimised compressor control improves energy efficiency, especially at partial loads, thus reducing energy consumption. Thanks to its modular design, the \*carbo-Line can be flexibly adapted to different cooling requirements – both for deep cooling and normal cooling. This future-proof solution enables the retailer to operate its stores even more efficiently and sustainably, at the same time as being well equipped for future challenges.

### carbo-Line

Plug & Play CO<sub>2</sub>- complete system with energy management

#### Application

- Organic shops
- Fruit and vegetable shops
- Bakeries
- Butchers
- Canteens and commercial kitchens



## Modular und efficient – a perfect fit

### Discounter & food markets from 300 m<sup>2</sup> to 1,200 m<sup>2</sup> sales area

Our \*carbo-Line series is perfectly tailored to the requirements of small to medium capacities. Its modular designs allows for customisation according to different cooling requirements. With individual configuration of the compressor slots with up to 2x LT and up to 3x MT, the \*carbo-Line can be used not only as a booster, but also as a pure low temperature booster or medium temperature machine.

## Technical data



LT

**2.3 - 25.0 kW**at t<sub>0</sub>/t<sub>c</sub>= -30/-8°C

MT

**7.0 - 38.0 kW**at t<sub>0</sub>/t<sub>g</sub>= -8/+38°C

Receiver volume

**63 Litre**

## Possible variations

These configurations are possible due to the individual allocation of the compressor positions:



Low Temp.

Medium Temp.

**24/7**  
Plan cooling  
solutions

## *smartR-tool*

The online configurator for the compact CO<sub>2</sub> standard products \*carbo-Line and \*carbo-Rack

- Plan cooling solutions 24/7
- incl. price information\*, flow chart, technical data
- fast & flexible quotation creation\*



[www.compact-kaeltetechnik.de/smartR-tool](http://www.compact-kaeltetechnik.de/smartR-tool)

\* Registration required. Activation can take up to 48 hours once, then can be used without restriction.

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