



# CO<sub>2</sub>-Booster

Custom-made CO<sub>2</sub> installation, specifically for your bakery

Choose the KOMA CO<sub>2</sub> Booster and invest in a sustainable and efficient future. This powerful CO<sub>2</sub> system is specifically designed for bakeries with highly fluctuating loads and is ideal for storage rooms, proofing cabinets, and blast freezers. Each CO<sub>2</sub> Booster is custom-designed to fully meet your specific requirements and manufactured in our Dutch factory. This ensures reliable and continuous operation, even in the event of unexpected failures.

## FEATURES:

- Minimal environmental impact thanks to **CO<sub>2</sub>** refrigerant
- Specifically designed for **bakery applications** (fluctuating load)
- Save up to **30% on energy costs**
- Eligible for subsidy program
- **No F-Gas and PFAS restrictions**
- Reliable operation under all conditions due to **advanced capacity control**
- Unmatched versatility: cool, freeze, and deep- or shock-freeze up to **3 temperature levels simultaneously**
- In-house developed steel frame & **high-quality components**
- Assembly in container (optional)
- Heat reclaim (optional)
- Chilled water module for air conditioning/process water (optional)



## AVAILABLE MODELS:

Framesize	2+2 t/m 6+6
Number of MT compressors	2-6
Number of LT compressors	1-6
Max. capacity MT (kW)*	ca. 400
Max. capacity LT (kW)*	ca. 250
Liquid receiver capacity (min. 90L)	max. 2x450L

\*All capacities are calculated at -5°C MT, -25°C LT and 36°C gas cooler outlet temperature.

## Technical specifications

Voltage	400V-3-50HZ
Weight	1.500 - 4.500 kg
Dimensions (LxWxH)	min. 3350x1200x2400 (2+2) max. 5570x1200x2400 (6+6)
Suction connection	max. 2 1/8" (54 mm)
Liquid connection	max. 1 5/8" (42 mm)
Technology	CO <sub>2</sub> transcritical with dynamic capacity
Refrigerant	R744 (CO <sub>2</sub> )
Cooling pipe	K65 (reinforced copper)
Controller	Danfoss/Carel

## APPLICATION RANGE:

- Cooling: -5°C, 6-160 kW
- CDS/REC: 15-250 kW
- Freezing: -25°C, 15-250 kW
- Shock freezing: -40°C, 12-160 kW

## STANDARD EQUIPMENT:

- Assembled on a frame
- Control box
- From 1+2 to 6+6 compressor configuration
- Capacity controllers on the main compressors
- Suction gas heat exchanger for increased efficiency
- CO<sub>2</sub> detection
- Overpressure protection

## DESIGN PRESSURE:

- High pressure: 120 bar
- Receiver: 60 bar
- MT suction pressure: 45 bar
- LT suction pressure: 30 bar

## OPTIONS:

- Heat recovery module with three-way bypass
- Energy meter kit
- Container (plug & play machine room) for outdoor installation
- Quiet gas cooler
- Chilled water module

Extensive factory tests ensure quick commissioning of both pressure and electrical installations.

Documentation and manuals comply with legal requirements.

CE marking according to EU regulation PED 2014/68/EU.

## KOMA

Energieweg 2

6045 JE Roermond

The Netherlands

T +31 (0)475 474 700

info@koma.com

www.koma.com

