


# GEA DICAR-B Carbonation System

## Technical data

The GEA carbonation system type GEA DICAR-B has been designed for the exact control of the $CO_2$ content, especially in beer. The system consists of the following essential components:

- Flow meter beer (option)
- Modulating control valve ($CO_2$)
- Carbonating unit
- Analyzer ($CO_2$)
- Saturation pipe
- Control panel with operating interface
- Completely mounted on a base frame, pre-cabled and tested

The $CO_2$ content required for the beverage is set in g/l on the operator's control and display unit. The $CO_2$ measurement displays the actual $CO_2$ content. The digital control calculates the set points. The resulting flow rates will be controlled by highly accurate modulating control valves. The saturation pipe is designed to have finished the $CO_2$ bonding before reaching the analyzer.

**Features:**

- Single stage carbonation to saturation value
- Measuring of $CO_2$ content in the product
- Direct $CO_2$ control
- $CO_2$ dispersion with a special carbonating unit
- Simple operation
- Completely mounted and tested
- Designed for foodstuffs, suitable for CIP

**GEA DICAR-B is available with the following options:**

1. Sterile filter for $CO_2$
2. Booster pump
3. Subsidiary ratio control
4. Steam on $CO_2$ pipe

# Technical data

| | Capacity [hl/h] | Design size [DN] | Length [mm] | Width [mm] | Height [mm] | Max. weight approx. [kg]* | Installed power [kW]* |
|---|---|---|---|---|---|---|---|
| | 20 - 45 ** | 25 | 2,500 | 1,000 | 2,000 | 250 | <1 |
| | 40 - 100 ** | 40 | 2,500 | 1,000 | 2,000 | 260 | <1 |
| | 70 - 150 | 50 | 2,500 | 1,000 | 2,000 | 280 | <1 |
| | 120 - 250 | 65 | 2,500 | 1,000 | 2,050 | 300 | <1 |
| | 180 - 360 | 80 | 2,500 | 1,000 | 2,050 | 340 | <1 |
| | 280 - 560 | 100 | 2,500 | 1,000 | 2,200 | 380 | <1 |
| | 440 - 880 | 125 | 3,000 | 1,300 | 2,350 | 420 | <1 |
| | 600 - 1,250 | 150 | 3,000 | 1,300 | 2,350 | 450 | <1 |

| | |
|---|---|
| **Material** | 1.4404/EPDM, other materials available on request only |
| **$CO_2$ pressure** | 6 bar (purity 99.998%) |
| **Pressure drop** | approx. 1.5 bar |
| **Control air** | 6 - 8 bar |
| **Carbonation** | 1 - 8 g/l or 0.4 - 4 l/l resp. (other values on request) |
| **Max. product temperature** | 10°C (other values on request) |

* without options
** max. flow rate not more than 2 x min. flow rate

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