

GEA DICAR-B CARBONATION SYSTEM

Carbonation system for beer and beer mix
beverages.



The GEA carbonation system type GEA DICAR-B has been designed for the exact control of the CO₂ content, especially in beer. The system consists of the following essential components:

- Flow meter beer (option)
- Modulating control valve (CO₂)
- Carbonating unit
- Analyzer (CO₂)
- Saturation pipe
- Control panel with operating interface
- Completely mounted on a base frame, pre-cabled and tested

The CO₂ content required for the beverage is set in g/l on the operator's control and display unit. The CO₂ measurement displays the actual CO₂ 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 CO₂ bonding before reaching the analyzer.

Features:

- Single stage carbonation to saturation value
- Measuring of CO₂ content in the product
- Direct CO₂ control
- CO₂ 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 CO₂
2. Booster pump
3. Subsidiary ratio control
4. Steam on CO₂ pipe



Technical Data

	Capacity [hl/h]	Design size [DN]	Length [mm]	Width [mm]	Height [mm]	Max. weight approx. [kg]*	Installed power [kW]*
	10 - 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

* without options

** max. flow rate not more than 2 x min. flow rate

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)

GEA Brewery Systems GmbH

Heinrich-Huppmann-Str. 1
97318 Kitzingen, Germany
Tel.: +49 321 303 0

Am Industriepark 2 - 10
21514 Büchen, Germany
Tel.: +49 4155 49 0

gea.com/contact
gea.com/brewing