Description

The GEA Diessel **High-Gravity Brewing** unit, type **DIMIX-B™**, has been designed for the highly accurate control of the original wort (alcoholic strength) and CO_2 content. It essentially consists of the following components:

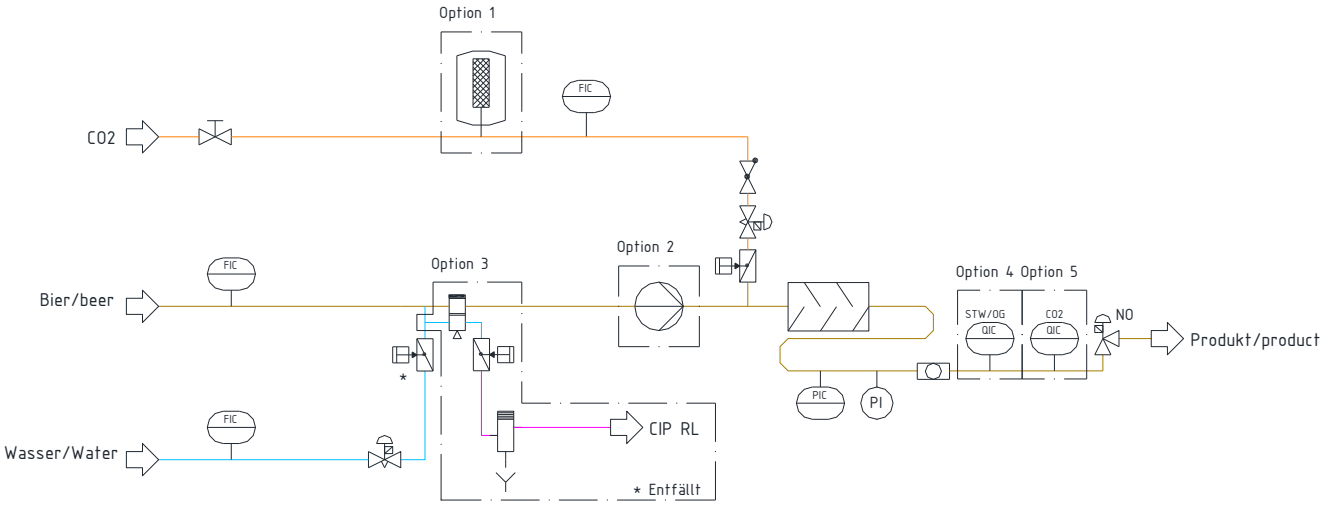
- flow meter (beer, deaerated water)
- control valves (CO_2, deaerated water)
- product analyser (CO_2/OG measurement), option
- saturating pipe
- control panel with operating device
- unit completely mounted on a base frame, wired and factory-tested

The values required for the original gravity and the CO_2 content of every beer type are stored in the recipe memory of the operating and control unit. The digital control unit calculates the set points for the flow rate on the basis of the given ratio. As an option, the original gravity meter at the outlet of the system continuously determines the original gravity depending on which the addition of water is set. The resulting flow rates are controlled by high-precision control valves.
The saturating pipe is designed to allow the CO_2 bonding to be finished before the analyser is reached.

Features

- high-precision original gravity (up to 0.05% OG)
- single-stage carbonation to the saturation value
- measurement of the 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

Scheme



The DICAR-B™ is available with the following options:

1. Sterile filter for CO_2
2. Booster pump
3. Separate CIP water line
4. Analyser for OG
5. Analyser for CO_2

Technical data

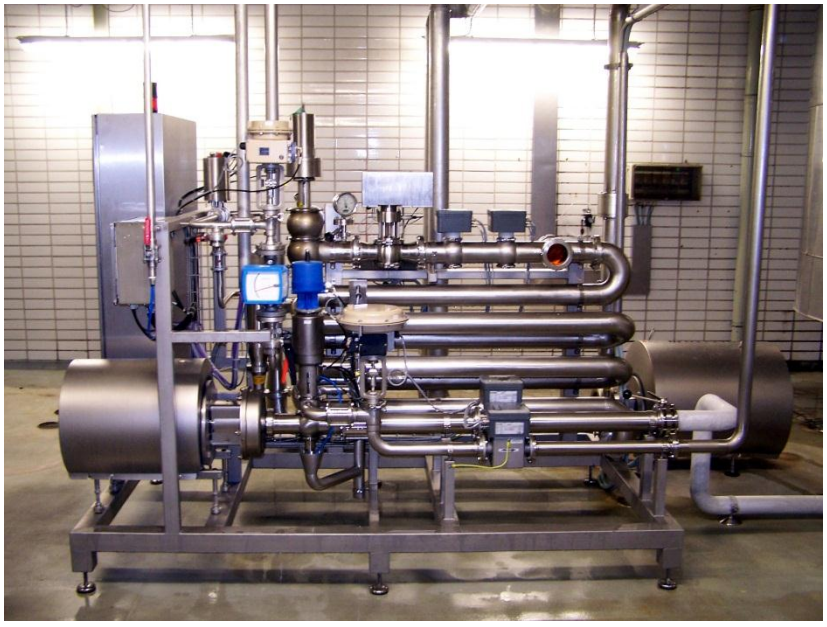
Material	1.4301/EPDM other materials available on request only
Dimensions	

Qmax. hl/h	Length mm	Width mm	Height mm	DN	Installed power kW*	Max. weight approx. Kg*
70-150	2,000	1,200	2,000	50	< 1kW	600
120-250	2,300	1,200	2,000	65	< 1kW	650
180-360	3,200	1,400	2,000	80	< 1kW	700
280-560	3,600	1,400	2,000	100	< 1kW	800
440-880	3,800	1,400	2,000	125	< 1kW	900

* without options

Beer pressure Water pressure Pressure drop	3.5 bar 4.5 bar (minimum 1 bar above beer pressure) approx. 1.5 bar
CO_2 pressure	6 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)

Figure (Example)



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