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СИСТЕМЫ ОБРАБОТКИ ЖИДКОСТИ GEA VARIDOX-C, VARIDOX-H Технические характеристики



Description

Oxygen in beer or beverages may spoil the perishability and taste. It is therefore important to use optimum deaerated water for the production of beverages and for the redilution of beer. The innovative GEA Diessel water deaeration system VARIDOX-H™ achieves with hot deaeration excellent residual oxygen values which makes it most suitable for this and other applications.

The pasteurization of the water offers an additional advantage. The water is heated up to approx. 72°C. At that temperature it is fed to the deaerating column and slowly trickles down the packed columns. The high temperature strongly reduces the solubility of the oxygen in the water. The bottom-up flowing CO₂ (N₂) ensures an additional release of the oxygen.

When the water is cooled down after leaving the column, a heat recovery of >90 % is obtained by means of the regenerating step. In another step, the water is cooled down to the desired temperature.

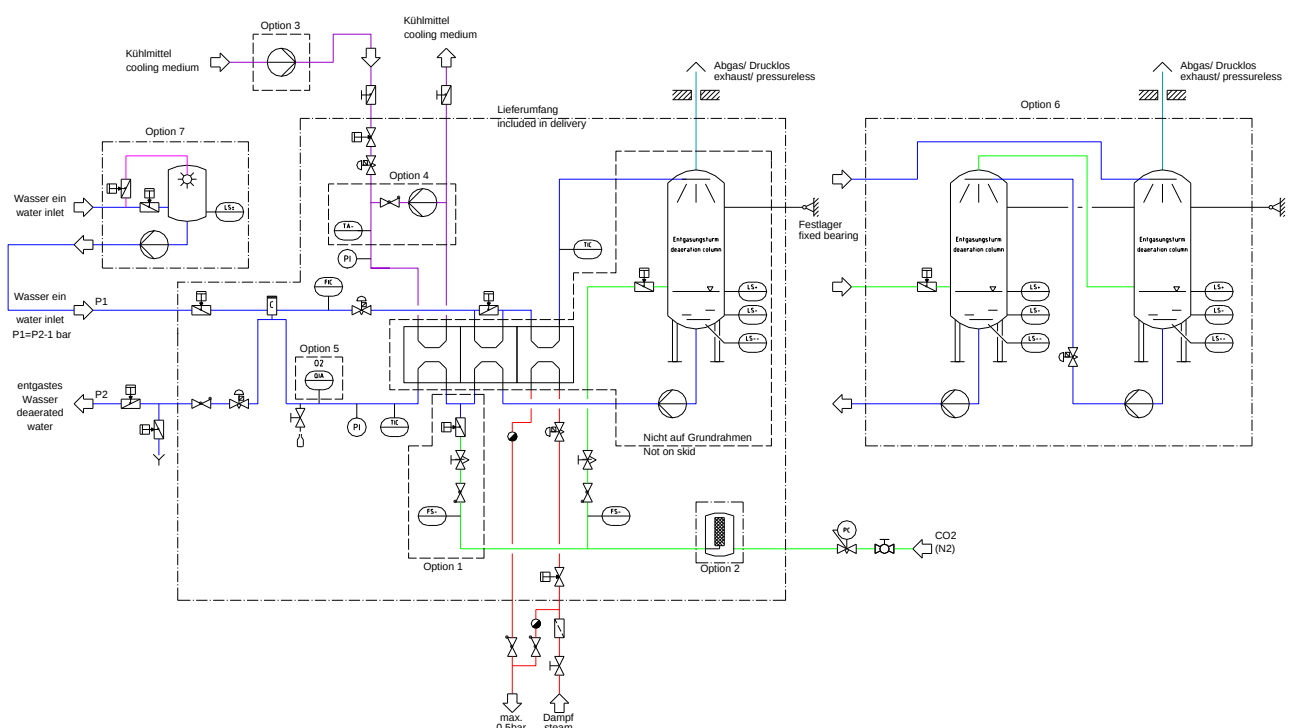
The sensors for flow rate, level, and optionally oxygen monitor the VARIDOX-H™ as to its proper function.

The VARIDOX-H™ is cleaned via the product pipe.

Features

- Residual oxygen content $\leq 0.02 \text{ mg O}_2/\text{l}$ (option $\leq 0.01 \text{ mg O}_2/\text{l}$)
- Low running costs
- Low wear and tear
- Pasteurization of water ($\geq 25 \text{ PE}$)
- Factory-tested unit
- Capacities of 6,000 – 90,000 l/h available (higher flow rate on request)

Flow chart (Example)

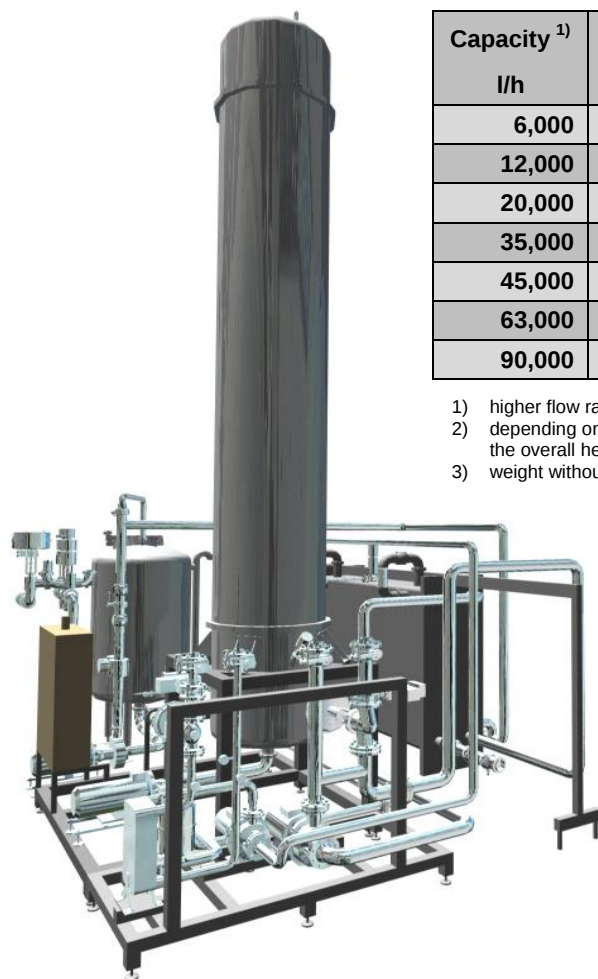


VARIDOX-H™ is available with the following options:

1. Pre-carbonation
2. Sterile filter for CO₂
3. Coolant feed pump
4. Freezing-protected mixing of the coolant
5. O₂ measurement
6. 2-columns design (overall height: 4.7 m)
7. Feed buffer tank
8. Column installed on a base frame
9. Deaeration to ≤ 0.01 mg O₂/l

Technical Data

Capacity	see table	CO ₂ pre-pressure	6 – 8 bar
Water pre-pressure	3 bar	CO ₂ consumption	0.05 g/l
Control air pressure	6 – 8 bar	Carbonisation	0.45 g/l
		CO ₂ supply	0.5 g/l
Materials	1.4301/EPDM	Required CO ₂ quality	≥ 99.995 % purity

Illustration (example)**Dimensions**

Capacity ¹⁾ l/h	Length m	Width m	Height max. ²⁾ m	Nom. width DN	Weight ³⁾ kg	Elec. capacity kW
6,000	3.2	3.0	6.7	40	1500	3
12,000	3.2	3.0	6.7	40	1500	5
20,000	3.5	3.3	6.7	50	1500	9
35,000	3.5	3.5	6.7	65	2000	12
45,000	3.5	4.0	6.7	80	2000	17
63,000	3.5	4.0	6.7	100	4000	22
90,000	4.5	5.5	6.7	100	4000	34

1) higher flow rate on request

2) depending on the residual oxygen content (the higher the residual oxygen content, the smaller the overall height)

3) weight without heat exchanger

Description

Oxygen in beer and beverages may spoil the perishability and taste. It is therefore important to use optimum deaerated water for the redilution of beer and for the production of beverages. The innovative GEA Diessel water deaeration system VARIDOX-C™ (cold deaeration system) achieves excellent residual oxygen values which makes it most suitable for this and other applications.

The water is sprayed in the deaerating column and slowly trickles down the packed columns. The bottom-up flowing CO₂ (N₂) ensures the release of the oxygen. At the outlet of the system the water is saturated with CO₂ (N₂).

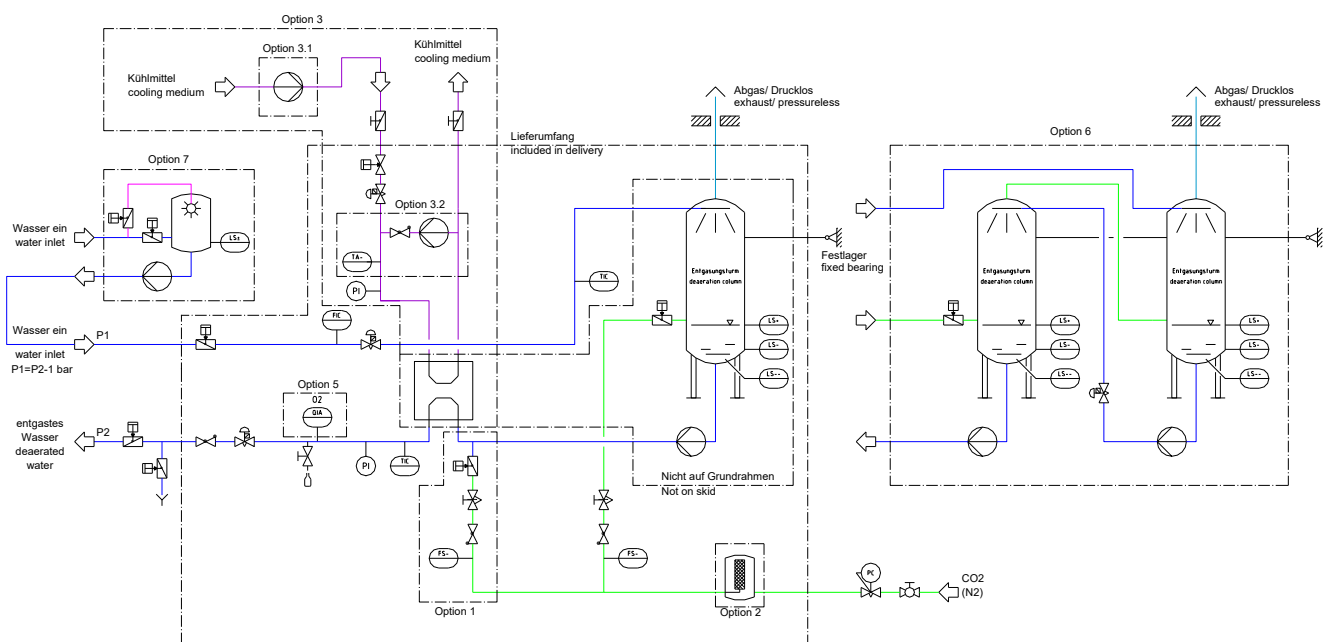
The probes for flow rate, level, and optionally oxygen monitor the VARIDOX-C™ as to its proper function.

VARIDOX-C™ is cleaned via the product pipe.

Features

- residual oxygen content $\leq 0.03 \text{ mg O}_2/\text{l}$ (option $\leq 0.02 \text{ mg O}_2/\text{l}$)
- low running costs
- low wear and tear
- works-tested unit
- capacities of 6,000 – 90,000 l/h available (higher flow rate on request)

Flow chart (Example)



VARIDOX-C™ is available with the following options:

- | | |
|--|--|
| 1. Pre-carbonation | 4. O ₂ measurement |
| 2. Sterile filter for CO ₂ | 5. 2-columns design (overall height: 5.5 m) |
| 3. Cooling | 6. Feed buffer tank |
| 3.1 Coolant feed pump | 7. Column installed on a base frame |
| 3.2 Freezing-protected mixing of the coolant | 8. Deaeration to ≤ 0.02 mg O ₂ /l |

Technical Data

Capacity	see table	CO ₂ pre-pressure	6 – 8 bar
Water pre-pressure	2 bar	CO ₂ consumption	0.3 – 0.8 g/l
Water temperature	≥ 10°C	Carbonation	1.7 – 2.2 g/l
		CO ₂ supply	2 – 3 g/l
Control air pressure	6 – 8 bar	Required CO ₂ quality	≥ 99.995 % purity
Materials	1.4301/EPDM		

Illustration (example)**Dimensions**

Capacity ¹⁾ l/h	Length m	Width m	Height max. ²⁾ m	Nom. width DN	Weight kg	Elec. capacity kW
6,000	1.4	1.7	7.7	40	1500	2.2
12,000	1.4	1.7	7.7	40	1500	4
20,000	1.4	1.7	7.7	50	1500	7.5
35,000	1.7	2.0	7.7	65	2000	11
45,000	1.7	2.0	7.7	80	2000	15
63,000	2.2	2.3	7.7	100	4000	18.5
90,000	2.2	2.3	7.7	100	4000	30

1) higher flow rate on request

2) depending on the residual oxygen content (the higher the residual oxygen content, the smaller the overall height)



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