

DeGAS - H

Hot Water Column Deaeration System



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The Principle

Structured packing typically consists of thin corrugated metal plates arranged in a way that they force liquids to take multiple paths through the column, thereby creating a large surface area for contact between different phases. The hot water passes the column in a counter current flow top-down to the strip gas CO₂. The removed oxygen will leave the column at its top together with the not dissolved CO₂ to the vent.

A column discharge pump forwards the water from the bottom of column to the DAW process.

By using a multiple zone heat exchanger the efficiency of the column deaeration system can be increased.

For process safety an optional inline oxygen measurement determine the proper function continuously.

Technical Data

Capacity	10 - 1500 hl/h
Residual Oxygen	< 10 ppb
Temperature	8 - 95°C
Pressure	0-8 bar
Material	1.4301 / 1.4404
Heating media	Steam
Cooling media	Glycol, Brine, Ice water, Ammonia
PLC	Siematic S7

- **Optional Inline Oxygen Measurement**
Determine highly accurate and continuously the residual Oxygen content by using the Centec optical process measurement **Oxytrans TR**
- **Optional Process Visualisation**
Visualize and store continuously the process on the local PLC or at an upper SCADA System.



- **Energy-Saving**

by deaeration of the water at ambient temperature

- **Hygienic**

in design and fully integrated in the CIP process

- **Flexible**

by using a local PLC or fully integrated in the overall process

- **Reliable in Operation**

fully monitored and controlled by an inline oxygen measurement



Structured Packing



Centec OXYTRANS-TR
Optical Inline Oxygen Measurement

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