

# 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 CO<sub>2</sub>. The removed oxygen will leave the column at its top together with the not dissolved CO<sub>2</sub> 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**

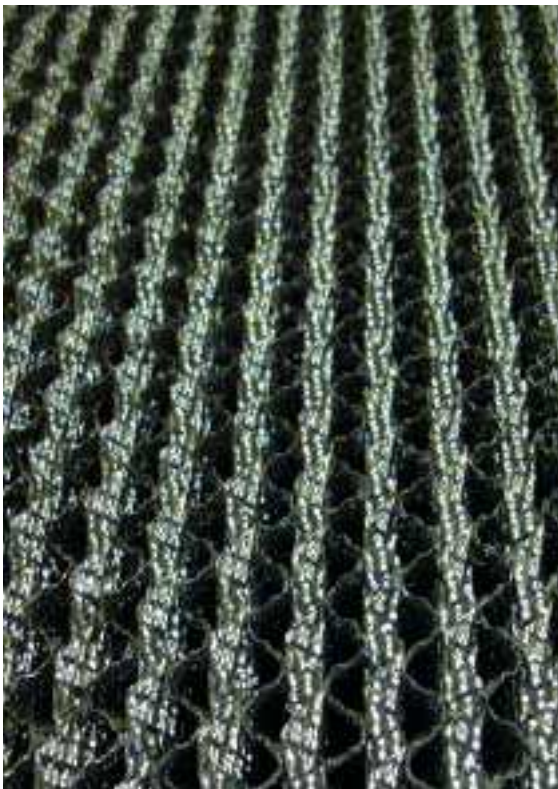
in design and fully integrated in the CIP process

- **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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