

DGS

Membrane Water Deaeration Unit



DGS

Die Application

The Centec DGS Water Deaeration System is a modular water deaeration system utilizing hydrophobic, hollow fibre membrane technology. The use of these highly efficient membrane contactors provides extremely low operating costs, resulting in very low residual oxygen values with low energy and purge gas consumption (CO₂ or N₂). The membranes offer a compact and flexible operation with the ability to increase capacity as water needs increase. The system offer variable capacity from near zero to maximum design flow rate, while maintaining the oxygen specification requirements. The systems can be combined to incorporate other water treatment processing like UV sterilization, heat sterilization, carbon filtration, particle filtration, chilling and carbonation. The systems are CIP compatible and are cleaned as any other section of pipe in the plant.

Technical Data

Capacity	10 - 2000 hl/h
Residual Oxygen	< 0,005 ppm
Temperature	2 - +45°C
Pressure	0-8 bar
Cleaning	CIP up to 85°C
Material	1.4301 / 1.4404 / AISI
Material of the Membrane	Polypropylene
PLC	Siematic S7

- **Expandable by a flash pasteurizer** for continuous thermal sterilisation
- **Optional Process Visualisation**
Visualize and store continuously the process on the local PLC or at an upper SCADA System
- **Optional In-line oxygen measurement** for continuous determination and registration of the residual oxygen
- **Optional sealing water recovery** for the vacuum pump system



- **Hygienic**

in design and fully integrated in the CIP process

- **Flexible**

in operation at variable flow rate

- **Modular**

by the ability to increase capacity

- **Effective**

by using highly efficient membrane contactors



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